UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

DRAFT

Site Name: Dimock Residential Groundwater	Project #: DAS R33907

Report Narrative

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Report Narrative

The EPA Region 3 Laboratory's Quality System is NELAP accredited. The National Environmental Laboratory Accreditation Program (NELAP) is a voluntary environmental laboratory accreditation association of State and Federal agencies.

General Notes: EDIT
This report contains results for Metals and Glycols analyses only. All other parameters identified on the chain-of-custody form are included in separate reports. Lab Sample numbers 120101 thru - and 1201013- thru - are not included in this report since these samples were designated for Volatile Organic analysis only.

For Work Order 1202003 - **This is Report 1 of 3.**

All samples were received intact and at proper temperature. **EDIT**

Some samples designated for the analysis of Orthophosphorous were received at the laboratory past the established holding times. Therefore, all samples were analyzed using the Total Phosphate method and results for the analysis by the Orthophosphorous method are not included in this report Since the Orthophosphorous method was being used as a screening method to determine the need to analyze the sample by the Total Phosphate method , results for Total Phosphate are not impacted.

Samples designated for the analysis of Oil & Grease were received in sample containers inconsistent with the type needed for the routine extraction procedure. Therefore, all samples were extracted using the manual extraction technique.

Where applicable, sample results are qualified based on the highest level concentrations of field QC contamination found in the field, equipment, or trip blanks.

Metals Analysis Note:
Uranium, strontium, lithium, tin and titanium were analyzed as an on-demand analysis.

Metals sample results were qualified with a B because of contamination of zinc and lead in the equipment blank.

Glycols by HPLC/MS/MS Note:
Samples were analyzed for diethylene glycol (DiG) (CAS# 111-46-6), triethylene glycol (TriG) (112-27-6), tetraethylene glycol (TeG) (112-60-7), 2-butoxyethanol (2-Bu) (111-76-2) and 2-methoxyethanol (109-86-4) by LC/MS/MS (inst id: TQD-LCMSMS) on a Waters Atlantis dC18 3um 2.1 x 150mm column (s/n- 0141301481). See the case file for complete instrument method information.
An LC/MS/MS method does not currently exist for these analytes. ASTM D 7731-11 and EPA SW-846 Methods 8000C and 8321 were followed for method development and QA/QC limits where applicable. All applicable OASQA On Demand QA/QC protocols were followed.

The aqueous samples were injected without extraction onto the LC/MS/MS system

Refer to notes in the case file for additional information regarding the analysis.

REPORT 1 of 3

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Site Name: Dimock Residential Groundwater **Project #: DAS R33907**

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Matrix	Date Sampled	Date Received
HW45	1202003-01	Drinking Water	2/06/12 10:28	2/07/12 11:17
HW45-P	1202003-02	Drinking Water	2/06/12 11:06	2/07/12 11:17
HW43-P	1202003-03	Drinking Water	2/06/12 12:19	2/07/12 11:17
HW43	1202003-04	Drinking Water	2/06/12 12:06	2/07/12 11:17
EB02	1202003-05	Water	2/05/12 15:00	2/07/12 11:17
HW45-F	1202003-06	Drinking Water	2/06/12 10:28	2/07/12 11:17
HW45-PF	1202003-07	Drinking Water	2/06/12 11:06	2/07/12 11:17
HW43-F	1202003-08	Drinking Water	2/06/12 12:06	2/07/12 11:17
EB02-F	1202003-09	Water	2/05/12 15:00	2/07/12 11:17
HW43-PF	1202003-10	Drinking Water	2/06/12 12:19	2/07/12 11:17
HW15a-P	1202003-13	Drinking Water	2/07/12 10:55	2/08/12 11:15
HW31-P	1202003-14	Drinking Water	2/06/12 18:28	2/08/12 11:15
HW30	1202003-15	Drinking Water	2/06/12 14:34	2/08/12 11:15
HW30-P	1202003-16	Drinking Water	2/06/12 15:00	2/08/12 11:15
HW31	1202003-17	Drinking Water	2/06/12 18:20	2/08/12 11:15
FB11	1202003-18	Water	2/06/12 14:36	2/08/12 11:15
HW31z	1202003-19	Drinking Water	2/06/12 18:20	2/08/12 11:15
HW15a	1202003-20	Drinking Water	2/07/12 10:47	2/08/12 11:15
HW30-PF	1202003-24	Drinking Water	2/06/12 15:00	2/08/12 11:15
HW15a-F	1202003-25	Drinking Water	2/07/12 10:47	2/08/12 11:15
HW31-F	1202003-26	Drinking Water	2/06/12 18:20	2/08/12 11:15
HW31z-F	1202003-27	Drinking Water	2/06/12 18:20	2/08/12 11:15
HW30-F	1202003-28	Drinking Water	2/06/12 14:34	2/08/12 11:15
HW31-PF	1202003-29	Drinking Water	2/06/12 18:28	2/08/12 11:15
HW15a-PF	1202003-30	Drinking Water	2/07/12 10:55	2/08/12 11:15
FB11-F	1202003-31	Water	2/06/12 14:36	2/08/12 11:15
HW38-P	1202003-32	Drinking Water	2/08/12 10:52	2/09/12 10:45
FB13	1202003-33	Water	2/08/12 09:00	2/09/12 10:45
FB12	1202003-34	Water	2/07/12 13:35	2/09/12 10:45
HW47	1202003-35	Drinking Water	2/08/12 11:50	2/09/12 10:45
HW51	1202003-36	Drinking Water	2/07/12 13:48	2/09/12 10:45

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Site Name: Dimock Residential Groundwater **Project #: DAS R33907**

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Matrix	Date Sampled	Date Received
HW38	1202003-37	Drinking Water	2/08/12 10:41	2/09/12 10:45
HW51-P	1202003-38	Drinking Water	2/07/12 13:56	2/09/12 10:45
HW47-P	1202003-39	Drinking Water	2/08/12 12:25	2/09/12 10:45
HW51-PF	1202003-40	Drinking Water	2/07/12 13:56	2/09/12 10:45
HW38-F	1202003-41	Drinking Water	2/08/12 10:41	2/09/12 10:45
HW47-PF	1202003-42	Drinking Water	2/08/12 12:25	2/09/12 10:45
HW38-PF	1202003-43	Drinking Water	2/08/12 10:52	2/09/12 10:45
FB13-F	1202003-44	Water	2/08/12 09:00	2/09/12 10:45
FB12-F	1202003-45	Water	2/07/12 13:35	2/09/12 10:45
HW51-F	1202003-46	Drinking Water	2/07/12 13:48	2/09/12 10:45
HW47-F	1202003-47	Drinking Water	2/08/12 11:50	2/09/12 10:45

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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW45
Lab ID: 1202003-01
Sample Matrix: Drinking Water
Date Collected: 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/07/12	02/09/12 11:31	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/07/12	02/09/12 11:31	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/07/12	02/09/12 11:31	EPA 200.8/R3QA116
Barium	164		10.0	2.5	02/07/12	02/09/12 11:31	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/07/12	02/09/12 11:31	EPA 200.8/R3QA116
Boron	U		50.0	1	02/07/12	02/09/12 11:46	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/07/12	02/09/12 11:31	EPA 200.8/R3QA116
Calcium	32200		500	1	02/07/12	02/09/12 11:46	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/07/12	02/09/12 11:31	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/07/12	02/09/12 11:31	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/07/12	02/09/12 11:31	EPA 200.8/R3QA116
Iron	U		100	1	02/07/12	02/09/12 11:46	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/07/12	02/09/12 11:31	EPA 200.8/R3QA116
Lithium	U		200	1	02/07/12	02/09/12 11:46	EPA 200.7/R3QA159
Magnesium	7910		500	1	02/07/12	02/09/12 11:46	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/07/12	02/09/12 11:31	EPA 200.8/R3QA116
Nickel	1.3		1.0	2.5	02/07/12	02/09/12 11:31	EPA 200.8/R3QA116
Potassium	U		2000	1	02/07/12	02/09/12 11:46	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/07/12	02/09/12 11:31	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/07/12	02/09/12 11:31	EPA 200.8/R3QA116
Sodium	7260		1000	1	02/07/12	02/09/12 11:46	EPA 200.7/R3QA159
Strontium	1100		200	1	02/07/12	02/09/12 11:46	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/07/12	02/09/12 11:31	EPA 200.8/R3QA116
Tin	U		200	1	02/07/12	02/09/12 11:46	EPA 200.7/R3QA159
Titanium	U		200	1	02/07/12	02/09/12 11:46	EPA 200.7/R3QA159
Uranium	1.4		1.0	2.5	02/07/12	02/09/12 11:31	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/07/12	02/09/12 11:31	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/07/12	02/09/12 11:31	EPA 200.8/R3QA116

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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW45-P
Lab ID: 1202003-02
Sample Matrix: Drinking Water
Date Collected: 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/07/12	02/09/12 11:42	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/07/12	02/09/12 11:42	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/07/12	02/09/12 11:42	EPA 200.8/R3QA116
Barium	162		10.0	2.5	02/07/12	02/09/12 11:42	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/07/12	02/09/12 11:42	EPA 200.8/R3QA116
Boron	U		50.0	1	02/07/12	02/09/12 11:53	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/07/12	02/09/12 11:42	EPA 200.8/R3QA116
Calcium	32100		500	1	02/07/12	02/09/12 11:53	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/07/12	02/09/12 11:42	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/07/12	02/09/12 11:42	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/07/12	02/09/12 11:42	EPA 200.8/R3QA116
Iron	U		100	1	02/07/12	02/09/12 11:53	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/07/12	02/09/12 11:42	EPA 200.8/R3QA116
Lithium	U		200	1	02/07/12	02/09/12 11:53	EPA 200.7/R3QA159
Magnesium	7940		500	1	02/07/12	02/09/12 11:53	EPA 200.7/R3QA159
Manganese	1.0		1.0	2.5	02/07/12	02/09/12 11:42	EPA 200.8/R3QA116
Nickel	1.3		1.0	2.5	02/07/12	02/09/12 11:42	EPA 200.8/R3QA116
Potassium	U		2000	1	02/07/12	02/09/12 11:53	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/07/12	02/09/12 11:42	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/07/12	02/09/12 11:42	EPA 200.8/R3QA116
Sodium	7500		1000	1	02/07/12	02/09/12 11:53	EPA 200.7/R3QA159
Strontium	1150		200	1	02/07/12	02/09/12 11:53	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/07/12	02/09/12 11:42	EPA 200.8/R3QA116
Tin	U		200	1	02/07/12	02/09/12 11:53	EPA 200.7/R3QA159
Titanium	U		200	1	02/07/12	02/09/12 11:53	EPA 200.7/R3QA159
Uranium	1.4		1.0	2.5	02/07/12	02/09/12 11:42	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/07/12	02/09/12 11:42	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/07/12	02/09/12 11:42	EPA 200.8/R3QA116

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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW43-P
Lab ID: 1202003-03
Sample Matrix: Drinking Water
Date Collected: 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/07/12	02/09/12 11:47	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/07/12	02/09/12 11:47	EPA 200.8/R3QA116
Arsenic	1.1		1.0	2.5	02/07/12	02/09/12 11:47	EPA 200.8/R3QA116
Barium	213		10.0	2.5	02/07/12	02/09/12 11:47	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/07/12	02/09/12 11:47	EPA 200.8/R3QA116
Boron	U		50.0	1	02/07/12	02/09/12 11:57	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/07/12	02/09/12 11:47	EPA 200.8/R3QA116
Calcium	36200		500	1	02/07/12	02/09/12 11:57	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/07/12	02/09/12 11:47	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/07/12	02/09/12 11:47	EPA 200.8/R3QA116
Copper	3.7		2.0	2.5	02/07/12	02/09/12 11:47	EPA 200.8/R3QA116
Iron	204		100	1	02/07/12	02/09/12 11:57	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/07/12	02/09/12 11:47	EPA 200.8/R3QA116
Lithium	U		200	1	02/07/12	02/09/12 11:57	EPA 200.7/R3QA159
Magnesium	8010		500	1	02/07/12	02/09/12 11:57	EPA 200.7/R3QA159
Manganese	1.6		1.0	2.5	02/07/12	02/09/12 11:47	EPA 200.8/R3QA116
Nickel	1.4		1.0	2.5	02/07/12	02/09/12 11:47	EPA 200.8/R3QA116
Potassium	U		2000	1	02/07/12	02/09/12 11:57	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/07/12	02/09/12 11:47	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/07/12	02/09/12 11:47	EPA 200.8/R3QA116
Sodium	10700		1000	1	02/07/12	02/09/12 11:57	EPA 200.7/R3QA159
Strontium	474		200	1	02/07/12	02/09/12 11:57	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/07/12	02/09/12 11:47	EPA 200.8/R3QA116
Tin	U		200	1	02/07/12	02/09/12 11:57	EPA 200.7/R3QA159
Titanium	U		200	1	02/07/12	02/09/12 11:57	EPA 200.7/R3QA159
Uranium	4.0		1.0	2.5	02/07/12	02/09/12 11:47	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/07/12	02/09/12 11:47	EPA 200.8/R3QA116
Zinc	4.2		2.0	2.5	02/07/12	02/09/12 11:47	EPA 200.8/R3QA116

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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW43
Lab ID: 1202003-04
Sample Matrix: Drinking Water
Date Collected: 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/07/12	02/09/12 11:52	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/07/12	02/09/12 11:52	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/07/12	02/09/12 11:52	EPA 200.8/R3QA116
Barium	213		10.0	2.5	02/07/12	02/09/12 11:52	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/07/12	02/09/12 11:52	EPA 200.8/R3QA116
Boron	U		50.0	1	02/07/12	02/09/12 12:00	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/07/12	02/09/12 11:52	EPA 200.8/R3QA116
Calcium	37100		500	1	02/07/12	02/09/12 12:00	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/07/12	02/09/12 11:52	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/07/12	02/09/12 11:52	EPA 200.8/R3QA116
Copper	3.6		2.0	2.5	02/07/12	02/09/12 11:52	EPA 200.8/R3QA116
Iron	240		100	1	02/07/12	02/09/12 12:00	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/07/12	02/09/12 11:52	EPA 200.8/R3QA116
Lithium	U		200	1	02/07/12	02/09/12 12:00	EPA 200.7/R3QA159
Magnesium	8210		500	1	02/07/12	02/09/12 12:00	EPA 200.7/R3QA159
Manganese	1.9		1.0	2.5	02/07/12	02/09/12 11:52	EPA 200.8/R3QA116
Nickel	1.4		1.0	2.5	02/07/12	02/09/12 11:52	EPA 200.8/R3QA116
Potassium	U		2000	1	02/07/12	02/09/12 12:00	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/07/12	02/09/12 11:52	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/07/12	02/09/12 11:52	EPA 200.8/R3QA116
Sodium	10900		1000	1	02/07/12	02/09/12 12:00	EPA 200.7/R3QA159
Strontium	484		200	1	02/07/12	02/09/12 12:00	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/07/12	02/09/12 11:52	EPA 200.8/R3QA116
Tin	U		200	1	02/07/12	02/09/12 12:00	EPA 200.7/R3QA159
Titanium	U		200	1	02/07/12	02/09/12 12:00	EPA 200.7/R3QA159
Uranium	4.0		1.0	2.5	02/07/12	02/09/12 11:52	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/07/12	02/09/12 11:52	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/07/12	02/09/12 11:52	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: EB02
Lab ID: 1202003-05
Sample Matrix: Water
Date Collected: 02/05/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/07/12	02/09/12 12:03	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/07/12	02/09/12 12:03	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/07/12	02/09/12 12:03	EPA 200.8/R3QA116
Barium	U		10.0	2.5	02/07/12	02/09/12 12:03	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/07/12	02/09/12 12:03	EPA 200.8/R3QA116
Boron	U		50.0	1	02/07/12	02/09/12 12:16	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/07/12	02/09/12 12:03	EPA 200.8/R3QA116
Calcium	U		500	1	02/07/12	02/09/12 12:16	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/07/12	02/09/12 12:03	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/07/12	02/09/12 12:03	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/07/12	02/09/12 12:03	EPA 200.8/R3QA116
Iron	U		100	1	02/07/12	02/09/12 12:16	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/07/12	02/09/12 12:03	EPA 200.8/R3QA116
Lithium	U		200	1	02/07/12	02/09/12 12:16	EPA 200.7/R3QA159
Magnesium	U		500	1	02/07/12	02/09/12 12:16	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/07/12	02/09/12 12:03	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	02/07/12	02/09/12 12:03	EPA 200.8/R3QA116
Potassium	U		2000	1	02/07/12	02/09/12 12:16	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/07/12	02/09/12 12:03	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/07/12	02/09/12 12:03	EPA 200.8/R3QA116
Sodium	U		1000	1	02/07/12	02/09/12 12:16	EPA 200.7/R3QA159
Strontium	U		200	1	02/07/12	02/09/12 12:16	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/07/12	02/09/12 12:03	EPA 200.8/R3QA116
Tin	U		200	1	02/07/12	02/09/12 12:16	EPA 200.7/R3QA159
Titanium	U		200	1	02/07/12	02/09/12 12:16	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/07/12	02/09/12 12:03	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/07/12	02/09/12 12:03	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/07/12	02/09/12 12:03	EPA 200.8/R3QA116

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

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Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW45-F	**Lab ID:** 1202003-06
Sample Matrix: Drinking Water	**Date Collected:** 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/07/12	02/09/12 12:08	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/07/12	02/09/12 12:08	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/07/12	02/09/12 12:08	EPA 200.8/R3QA116
Barium	176		10.0	2.5	02/07/12	02/09/12 12:08	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/07/12	02/09/12 12:08	EPA 200.8/R3QA116
Boron	U		50.0	1	02/07/12	02/09/12 12:19	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/07/12	02/09/12 12:08	EPA 200.8/R3QA116
Calcium	32000		500	1	02/07/12	02/09/12 12:19	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/07/12	02/09/12 12:08	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/07/12	02/09/12 12:08	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/07/12	02/09/12 12:08	EPA 200.8/R3QA116
Iron	U		100	1	02/07/12	02/09/12 12:19	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/07/12	02/09/12 12:08	EPA 200.8/R3QA116
Lithium	U		200	1	02/07/12	02/09/12 12:19	EPA 200.7/R3QA159
Magnesium	7840		500	1	02/07/12	02/09/12 12:19	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/07/12	02/09/12 12:08	EPA 200.8/R3QA116
Nickel	1.3		1.0	2.5	02/07/12	02/09/12 12:08	EPA 200.8/R3QA116
Potassium	U		2000	1	02/07/12	02/09/12 12:19	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/07/12	02/09/12 12:08	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/07/12	02/09/12 12:08	EPA 200.8/R3QA116
Sodium	7270		1000	1	02/07/12	02/09/12 12:19	EPA 200.7/R3QA159
Strontium	1110		200	1	02/07/12	02/09/12 12:19	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/07/12	02/09/12 12:08	EPA 200.8/R3QA116
Tin	U		200	1	02/07/12	02/09/12 12:19	EPA 200.7/R3QA159
Titanium	U		200	1	02/07/12	02/09/12 12:19	EPA 200.7/R3QA159
Uranium	1.5		1.0	2.5	02/07/12	02/09/12 12:08	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/07/12	02/09/12 12:08	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/07/12	02/09/12 12:08	EPA 200.8/R3QA116

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Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW45-PF
Lab ID: 1202003-07
Sample Matrix: Drinking Water
Date Collected: 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/07/12	02/09/12 12:14	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/07/12	02/09/12 12:14	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/07/12	02/09/12 12:14	EPA 200.8/R3QA116
Barium	159		10.0	2.5	02/07/12	02/09/12 12:14	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/07/12	02/09/12 12:14	EPA 200.8/R3QA116
Boron	U		50.0	1	02/07/12	02/09/12 12:23	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/07/12	02/09/12 12:14	EPA 200.8/R3QA116
Calcium	31900		500	1	02/07/12	02/09/12 12:23	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/07/12	02/09/12 12:14	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/07/12	02/09/12 12:14	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/07/12	02/09/12 12:14	EPA 200.8/R3QA116
Iron	U		100	1	02/07/12	02/09/12 12:23	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/07/12	02/09/12 12:14	EPA 200.8/R3QA116
Lithium	U		200	1	02/07/12	02/09/12 12:23	EPA 200.7/R3QA159
Magnesium	7870		500	1	02/07/12	02/09/12 12:23	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/07/12	02/09/12 12:14	EPA 200.8/R3QA116
Nickel	1.2		1.0	2.5	02/07/12	02/09/12 12:14	EPA 200.8/R3QA116
Potassium	U		2000	1	02/07/12	02/09/12 12:23	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/07/12	02/09/12 12:14	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/07/12	02/09/12 12:14	EPA 200.8/R3QA116
Sodium	7500		1000	1	02/07/12	02/09/12 12:23	EPA 200.7/R3QA159
Strontium	1150		200	1	02/07/12	02/09/12 12:23	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/07/12	02/09/12 12:14	EPA 200.8/R3QA116
Tin	U		200	1	02/07/12	02/09/12 12:23	EPA 200.7/R3QA159
Titanium	U		200	1	02/07/12	02/09/12 12:23	EPA 200.7/R3QA159
Uranium	1.3		1.0	2.5	02/07/12	02/09/12 12:14	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/07/12	02/09/12 12:14	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/07/12	02/09/12 12:14	EPA 200.8/R3QA116

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Region 3 Environmental Science Center
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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW43-F
Lab ID: 1202003-08
Sample Matrix: Drinking Water
Date Collected: 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/07/12	02/09/12 12:19	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/07/12	02/09/12 12:19	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/07/12	02/09/12 12:19	EPA 200.8/R3QA116
Barium	206		10.0	2.5	02/07/12	02/09/12 12:19	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/07/12	02/09/12 12:19	EPA 200.8/R3QA116
Boron	U		50.0	1	02/07/12	02/09/12 12:27	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/07/12	02/09/12 12:19	EPA 200.8/R3QA116
Calcium	35500		500	1	02/07/12	02/09/12 12:27	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/07/12	02/09/12 12:19	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/07/12	02/09/12 12:19	EPA 200.8/R3QA116
Copper	2.4		2.0	2.5	02/07/12	02/09/12 12:19	EPA 200.8/R3QA116
Iron	U		100	1	02/07/12	02/09/12 12:27	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/07/12	02/09/12 12:19	EPA 200.8/R3QA116
Lithium	U		200	1	02/07/12	02/09/12 12:27	EPA 200.7/R3QA159
Magnesium	7870		500	1	02/07/12	02/09/12 12:27	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/07/12	02/09/12 12:19	EPA 200.8/R3QA116
Nickel	1.4		1.0	2.5	02/07/12	02/09/12 12:19	EPA 200.8/R3QA116
Potassium	U		2000	1	02/07/12	02/09/12 12:27	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/07/12	02/09/12 12:19	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/07/12	02/09/12 12:19	EPA 200.8/R3QA116
Sodium	10600		1000	1	02/07/12	02/09/12 12:27	EPA 200.7/R3QA159
Strontium	468		200	1	02/07/12	02/09/12 12:27	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/07/12	02/09/12 12:19	EPA 200.8/R3QA116
Tin	U		200	1	02/07/12	02/09/12 12:27	EPA 200.7/R3QA159
Titanium	U		200	1	02/07/12	02/09/12 12:27	EPA 200.7/R3QA159
Uranium	3.9		1.0	2.5	02/07/12	02/09/12 12:19	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/07/12	02/09/12 12:19	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/07/12	02/09/12 12:19	EPA 200.8/R3QA116

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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: EB02-F
Lab ID: 1202003-09
Sample Matrix: Water
Date Collected: 02/05/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/07/12	02/09/12 12:35	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/07/12	02/09/12 12:35	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/07/12	02/09/12 12:35	EPA 200.8/R3QA116
Barium	U		10.0	2.5	02/07/12	02/09/12 12:35	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/07/12	02/09/12 12:35	EPA 200.8/R3QA116
Boron	U		50.0	1	02/07/12	02/09/12 12:31	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/07/12	02/09/12 12:35	EPA 200.8/R3QA116
Calcium	U		500	1	02/07/12	02/09/12 12:31	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/07/12	02/09/12 12:35	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/07/12	02/09/12 12:35	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/07/12	02/09/12 12:35	EPA 200.8/R3QA116
Iron	U		100	1	02/07/12	02/09/12 12:31	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/07/12	02/09/12 12:35	EPA 200.8/R3QA116
Lithium	U		200	1	02/07/12	02/09/12 12:31	EPA 200.7/R3QA159
Magnesium	U		500	1	02/07/12	02/09/12 12:31	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/07/12	02/09/12 12:35	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	02/07/12	02/09/12 12:35	EPA 200.8/R3QA116
Potassium	U		2000	1	02/07/12	02/09/12 12:31	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/07/12	02/09/12 12:35	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/07/12	02/09/12 12:35	EPA 200.8/R3QA116
Sodium	U		1000	1	02/07/12	02/09/12 12:31	EPA 200.7/R3QA159
Strontium	U		200	1	02/07/12	02/09/12 12:31	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/07/12	02/09/12 12:35	EPA 200.8/R3QA116
Tin	U		200	1	02/07/12	02/09/12 12:31	EPA 200.7/R3QA159
Titanium	U		200	1	02/07/12	02/09/12 12:31	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/07/12	02/09/12 12:35	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/07/12	02/09/12 12:35	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/07/12	02/09/12 12:35	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW43-PF
Lab ID: 1202003-10
Sample Matrix: Drinking Water
Date Collected: 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/07/12	02/09/12 12:40	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/07/12	02/09/12 12:40	EPA 200.8/R3QA116
Arsenic	1.3		1.0	2.5	02/07/12	02/09/12 12:40	EPA 200.8/R3QA116
Barium	200		10.0	2.5	02/07/12	02/09/12 12:40	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/07/12	02/09/12 12:40	EPA 200.8/R3QA116
Boron	U		50.0	1	02/07/12	02/09/12 12:34	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/07/12	02/09/12 12:40	EPA 200.8/R3QA116
Calcium	36000		500	1	02/07/12	02/09/12 12:34	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/07/12	02/09/12 12:40	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/07/12	02/09/12 12:40	EPA 200.8/R3QA116
Copper	3.1		2.0	2.5	02/07/12	02/09/12 12:40	EPA 200.8/R3QA116
Iron	U		100	1	02/07/12	02/09/12 12:34	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/07/12	02/09/12 12:40	EPA 200.8/R3QA116
Lithium	U		200	1	02/07/12	02/09/12 12:34	EPA 200.7/R3QA159
Magnesium	7920		500	1	02/07/12	02/09/12 12:34	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/07/12	02/09/12 12:40	EPA 200.8/R3QA116
Nickel	1.4		1.0	2.5	02/07/12	02/09/12 12:40	EPA 200.8/R3QA116
Potassium	U		2000	1	02/07/12	02/09/12 12:34	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/07/12	02/09/12 12:40	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/07/12	02/09/12 12:40	EPA 200.8/R3QA116
Sodium	10800		1000	1	02/07/12	02/09/12 12:34	EPA 200.7/R3QA159
Strontium	478		200	1	02/07/12	02/09/12 12:34	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/07/12	02/09/12 12:40	EPA 200.8/R3QA116
Tin	U		200	1	02/07/12	02/09/12 12:34	EPA 200.7/R3QA159
Titanium	U		200	1	02/07/12	02/09/12 12:34	EPA 200.7/R3QA159
Uranium	3.8		1.0	2.5	02/07/12	02/09/12 12:40	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/07/12	02/09/12 12:40	EPA 200.8/R3QA116
Zinc	3.7		2.0	2.5	02/07/12	02/09/12 12:40	EPA 200.8/R3QA116

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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW15a-P
Lab ID: 1202003-13
Sample Matrix: Drinking Water
Date Collected: 02/07/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/08/12	02/10/12 11:06	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/08/12	02/10/12 11:06	EPA 200.8/R3QA116
Arsenic	3.3		1.0	2.5	02/08/12	02/10/12 11:06	EPA 200.8/R3QA116
Barium	18.4		10.0	2.5	02/08/12	02/10/12 11:06	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/08/12	02/10/12 11:06	EPA 200.8/R3QA116
Boron	U		50.0	1	02/08/12	02/10/12 10:35	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/08/12	02/10/12 11:06	EPA 200.8/R3QA116
Calcium	1560		500	1	02/08/12	02/10/12 10:35	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/08/12	02/10/12 11:06	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/08/12	02/10/12 11:06	EPA 200.8/R3QA116
Copper	13.4		2.0	2.5	02/08/12	02/10/12 11:06	EPA 200.8/R3QA116
Iron	U		100	1	02/08/12	02/10/12 10:35	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/08/12	02/10/12 11:06	EPA 200.8/R3QA116
Lithium	U		200	1	02/08/12	02/10/12 10:35	EPA 200.7/R3QA159
Magnesium	629		500	1	02/08/12	02/10/12 10:35	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/08/12	02/10/12 11:06	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	02/08/12	02/10/12 11:06	EPA 200.8/R3QA116
Potassium	U		2000	1	02/08/12	02/10/12 10:35	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/08/12	02/10/12 11:06	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/08/12	02/10/12 11:06	EPA 200.8/R3QA116
Sodium	64600		1000	1	02/08/12	02/10/12 10:35	EPA 200.7/R3QA159
Strontium	U		200	1	02/08/12	02/10/12 10:35	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/08/12	02/10/12 11:06	EPA 200.8/R3QA116
Tin	U		200	1	02/08/12	02/10/12 10:35	EPA 200.7/R3QA159
Titanium	U		200	1	02/08/12	02/10/12 10:35	EPA 200.7/R3QA159
Uranium	1.1		1.0	2.5	02/08/12	02/10/12 11:06	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/08/12	02/10/12 11:06	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/08/12	02/10/12 11:06	EPA 200.8/R3QA116

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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW31-P
Lab ID: 1202003-14
Sample Matrix: Drinking Water
Date Collected: 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/08/12	02/10/12 11:12	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/08/12	02/10/12 11:12	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/08/12	02/10/12 11:12	EPA 200.8/R3QA116
Barium	500		200	1	02/08/12	02/10/12 10:40	EPA 200.7/R3QA159
Beryllium	U		1.0	2.5	02/08/12	02/10/12 11:12	EPA 200.8/R3QA116
Boron	64.8		50.0	1	02/08/12	02/10/12 10:40	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/08/12	02/10/12 11:12	EPA 200.8/R3QA116
Calcium	32300		500	1	02/08/12	02/10/12 10:40	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/08/12	02/10/12 11:12	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/08/12	02/10/12 11:12	EPA 200.8/R3QA116
Copper	4.3		2.0	2.5	02/08/12	02/10/12 11:12	EPA 200.8/R3QA116
Iron	U		100	1	02/08/12	02/10/12 10:40	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/08/12	02/10/12 11:12	EPA 200.8/R3QA116
Lithium	U		200	1	02/08/12	02/10/12 10:40	EPA 200.7/R3QA159
Magnesium	8690		500	1	02/08/12	02/10/12 10:40	EPA 200.7/R3QA159
Manganese	1.8		1.0	2.5	02/08/12	02/10/12 11:12	EPA 200.8/R3QA116
Nickel	1.2		1.0	2.5	02/08/12	02/10/12 11:12	EPA 200.8/R3QA116
Potassium	U		2000	1	02/08/12	02/10/12 10:40	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/08/12	02/10/12 11:12	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/08/12	02/10/12 11:12	EPA 200.8/R3QA116
Sodium	25500		1000	1	02/08/12	02/10/12 10:40	EPA 200.7/R3QA159
Strontium	873		200	1	02/08/12	02/10/12 10:40	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/08/12	02/10/12 11:12	EPA 200.8/R3QA116
Tin	U		200	1	02/08/12	02/10/12 10:40	EPA 200.7/R3QA159
Titanium	U		200	1	02/08/12	02/10/12 10:40	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/08/12	02/10/12 11:12	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/08/12	02/10/12 11:12	EPA 200.8/R3QA116
Zinc	3.3		2.0	2.5	02/08/12	02/10/12 11:12	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW30
Lab ID: 1202003-15
Sample Matrix: Drinking Water
Date Collected: 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/08/12	02/10/12 11:22	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/08/12	02/10/12 11:22	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/08/12	02/10/12 11:22	EPA 200.8/R3QA116
Barium	120		10.0	2.5	02/08/12	02/10/12 11:22	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/08/12	02/10/12 11:22	EPA 200.8/R3QA116
Boron	64.5		50.0	1	02/08/12	02/10/12 10:47	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/08/12	02/10/12 11:22	EPA 200.8/R3QA116
Calcium	35000		500	1	02/08/12	02/10/12 10:47	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/08/12	02/10/12 11:22	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/08/12	02/10/12 11:22	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/08/12	02/10/12 11:22	EPA 200.8/R3QA116
Iron	U		100	1	02/08/12	02/10/12 10:47	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/08/12	02/10/12 11:22	EPA 200.8/R3QA116
Lithium	U		200	1	02/08/12	02/10/12 10:47	EPA 200.7/R3QA159
Magnesium	7860		500	1	02/08/12	02/10/12 10:47	EPA 200.7/R3QA159
Manganese	10.4		1.0	2.5	02/08/12	02/10/12 11:22	EPA 200.8/R3QA116
Nickel	1.3		1.0	2.5	02/08/12	02/10/12 11:22	EPA 200.8/R3QA116
Potassium	U		2000	1	02/08/12	02/10/12 10:47	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/08/12	02/10/12 11:22	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/08/12	02/10/12 11:22	EPA 200.8/R3QA116
Sodium	14000		1000	1	02/08/12	02/10/12 10:47	EPA 200.7/R3QA159
Strontium	1290		200	1	02/08/12	02/10/12 10:47	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/08/12	02/10/12 11:22	EPA 200.8/R3QA116
Tin	U		200	1	02/08/12	02/10/12 10:47	EPA 200.7/R3QA159
Titanium	U		200	1	02/08/12	02/10/12 10:47	EPA 200.7/R3QA159
Uranium	3.0		1.0	2.5	02/08/12	02/10/12 11:22	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/08/12	02/10/12 11:22	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/08/12	02/10/12 11:22	EPA 200.8/R3QA116

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW30-P
Lab ID: 1202003-16
Sample Matrix: Drinking Water
Date Collected: 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/08/12	02/10/12 11:28	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/08/12	02/10/12 11:28	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/08/12	02/10/12 11:28	EPA 200.8/R3QA116
Barium	124		10.0	2.5	02/08/12	02/10/12 11:28	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/08/12	02/10/12 11:28	EPA 200.8/R3QA116
Boron	70.7		50.0	1	02/08/12	02/10/12 10:51	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/08/12	02/10/12 11:28	EPA 200.8/R3QA116
Calcium	34700		500	1	02/08/12	02/10/12 10:51	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/08/12	02/10/12 11:28	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/08/12	02/10/12 11:28	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/08/12	02/10/12 11:28	EPA 200.8/R3QA116
Iron	U		100	1	02/08/12	02/10/12 10:51	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/08/12	02/10/12 11:28	EPA 200.8/R3QA116
Lithium	U		200	1	02/08/12	02/10/12 10:51	EPA 200.7/R3QA159
Magnesium	7600		500	1	02/08/12	02/10/12 10:51	EPA 200.7/R3QA159
Manganese	12.1		1.0	2.5	02/08/12	02/10/12 11:28	EPA 200.8/R3QA116
Nickel	1.3		1.0	2.5	02/08/12	02/10/12 11:28	EPA 200.8/R3QA116
Potassium	U		2000	1	02/08/12	02/10/12 10:51	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/08/12	02/10/12 11:28	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/08/12	02/10/12 11:28	EPA 200.8/R3QA116
Sodium	14700		1000	1	02/08/12	02/10/12 10:51	EPA 200.7/R3QA159
Strontium	1390		200	1	02/08/12	02/10/12 10:51	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/08/12	02/10/12 11:28	EPA 200.8/R3QA116
Tin	U		200	1	02/08/12	02/10/12 10:51	EPA 200.7/R3QA159
Titanium	U		200	1	02/08/12	02/10/12 10:51	EPA 200.7/R3QA159
Uranium	2.9		1.0	2.5	02/08/12	02/10/12 11:28	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/08/12	02/10/12 11:28	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/08/12	02/10/12 11:28	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW31
Lab ID: 1202003-17
Sample Matrix: Drinking Water
Date Collected: 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/08/12	02/10/12 11:33	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/08/12	02/10/12 11:33	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/08/12	02/10/12 11:33	EPA 200.8/R3QA116
Barium	534		200	1	02/08/12	02/10/12 10:55	EPA 200.7/R3QA159
Beryllium	U		1.0	2.5	02/08/12	02/10/12 11:33	EPA 200.8/R3QA116
Boron	64.6		50.0	1	02/08/12	02/10/12 10:55	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/08/12	02/10/12 11:33	EPA 200.8/R3QA116
Calcium	33000		500	1	02/08/12	02/10/12 10:55	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/08/12	02/10/12 11:33	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/08/12	02/10/12 11:33	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/08/12	02/10/12 11:33	EPA 200.8/R3QA116
Iron	158		100	1	02/08/12	02/10/12 10:55	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/08/12	02/10/12 11:33	EPA 200.8/R3QA116
Lithium	U		200	1	02/08/12	02/10/12 10:55	EPA 200.7/R3QA159
Magnesium	8880		500	1	02/08/12	02/10/12 10:55	EPA 200.7/R3QA159
Manganese	171		1.0	2.5	02/08/12	02/10/12 11:33	EPA 200.8/R3QA116
Nickel	1.4		1.0	2.5	02/08/12	02/10/12 11:33	EPA 200.8/R3QA116
Potassium	U		2000	1	02/08/12	02/10/12 10:55	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/08/12	02/10/12 11:33	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/08/12	02/10/12 11:33	EPA 200.8/R3QA116
Sodium	26700		1000	1	02/08/12	02/10/12 10:55	EPA 200.7/R3QA159
Strontium	903		200	1	02/08/12	02/10/12 10:55	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/08/12	02/10/12 11:33	EPA 200.8/R3QA116
Tin	U		200	1	02/08/12	02/10/12 10:55	EPA 200.7/R3QA159
Titanium	U		200	1	02/08/12	02/10/12 10:55	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/08/12	02/10/12 11:33	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/08/12	02/10/12 11:33	EPA 200.8/R3QA116
Zinc	2.1		2.0	2.5	02/08/12	02/10/12 11:33	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: FB11
Lab ID: 1202003-18
Sample Matrix: Water
Date Collected: 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/08/12	02/10/12 11:54	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/08/12	02/10/12 11:54	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/08/12	02/10/12 11:54	EPA 200.8/R3QA116
Barium	U		10.0	2.5	02/08/12	02/10/12 11:54	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/08/12	02/10/12 11:54	EPA 200.8/R3QA116
Boron	U		50.0	1	02/08/12	02/10/12 11:10	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/08/12	02/10/12 11:54	EPA 200.8/R3QA116
Calcium	U		500	1	02/08/12	02/10/12 11:10	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/08/12	02/10/12 11:54	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/08/12	02/10/12 11:54	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/08/12	02/10/12 11:54	EPA 200.8/R3QA116
Iron	U		100	1	02/08/12	02/10/12 11:10	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/08/12	02/10/12 11:54	EPA 200.8/R3QA116
Lithium	U		200	1	02/08/12	02/10/12 11:10	EPA 200.7/R3QA159
Magnesium	U		500	1	02/08/12	02/10/12 11:10	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/08/12	02/10/12 11:54	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	02/08/12	02/10/12 11:54	EPA 200.8/R3QA116
Potassium	U		2000	1	02/08/12	02/10/12 11:10	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/08/12	02/10/12 11:54	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/08/12	02/10/12 11:54	EPA 200.8/R3QA116
Sodium	U		1000	1	02/08/12	02/10/12 11:10	EPA 200.7/R3QA159
Strontium	U		200	1	02/08/12	02/10/12 11:10	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/08/12	02/10/12 11:54	EPA 200.8/R3QA116
Tin	U		200	1	02/08/12	02/10/12 11:10	EPA 200.7/R3QA159
Titanium	U		200	1	02/08/12	02/10/12 11:10	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/08/12	02/10/12 11:54	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/08/12	02/10/12 11:54	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/08/12	02/10/12 11:54	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater
Station ID: HW31z
Sample Matrix: Drinking Water
Project #: DAS R33907
Lab ID: 1202003-19
Date Collected: 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/08/12	02/10/12 11:59	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/08/12	02/10/12 11:59	EPA 200.8/R3QA116
Arsenic	1.3		1.0	2.5	02/08/12	02/10/12 11:59	EPA 200.8/R3QA116
Barium	538		200	1	02/08/12	02/10/12 11:14	EPA 200.7/R3QA159
Beryllium	U		1.0	2.5	02/08/12	02/10/12 11:59	EPA 200.8/R3QA116
Boron	72.7		50.0	1	02/08/12	02/10/12 11:14	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/08/12	02/10/12 11:59	EPA 200.8/R3QA116
Calcium	33500		500	1	02/08/12	02/10/12 11:14	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/08/12	02/10/12 11:59	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/08/12	02/10/12 11:59	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/08/12	02/10/12 11:59	EPA 200.8/R3QA116
Iron	156		100	1	02/08/12	02/10/12 11:14	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/08/12	02/10/12 11:59	EPA 200.8/R3QA116
Lithium	U		200	1	02/08/12	02/10/12 11:14	EPA 200.7/R3QA159
Magnesium	9000		500	1	02/08/12	02/10/12 11:14	EPA 200.7/R3QA159
Manganese	158		1.0	2.5	02/08/12	02/10/12 11:59	EPA 200.8/R3QA116
Nickel	1.2		1.0	2.5	02/08/12	02/10/12 11:59	EPA 200.8/R3QA116
Potassium	U		2000	1	02/08/12	02/10/12 11:14	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/08/12	02/10/12 11:59	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/08/12	02/10/12 11:59	EPA 200.8/R3QA116
Sodium	26700		1000	1	02/08/12	02/10/12 11:14	EPA 200.7/R3QA159
Strontium	902		200	1	02/08/12	02/10/12 11:14	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/08/12	02/10/12 11:59	EPA 200.8/R3QA116
Tin	U		200	1	02/08/12	02/10/12 11:14	EPA 200.7/R3QA159
Titanium	U		200	1	02/08/12	02/10/12 11:14	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/08/12	02/10/12 11:59	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/08/12	02/10/12 11:59	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/08/12	02/10/12 11:59	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW15a
Lab ID: 1202003-20
Sample Matrix: Drinking Water
Date Collected: 02/07/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/08/12	02/10/12 12:05	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/08/12	02/10/12 12:05	EPA 200.8/R3QA116
Arsenic	5.1		1.0	2.5	02/08/12	02/10/12 12:05	EPA 200.8/R3QA116
Barium	582		200	1	02/08/12	02/10/12 11:18	EPA 200.7/R3QA159
Beryllium	U		1.0	2.5	02/08/12	02/10/12 12:05	EPA 200.8/R3QA116
Boron	U		50.0	1	02/08/12	02/10/12 11:18	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/08/12	02/10/12 12:05	EPA 200.8/R3QA116
Calcium	31900		500	1	02/08/12	02/10/12 11:18	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/08/12	02/10/12 12:05	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/08/12	02/10/12 12:05	EPA 200.8/R3QA116
Copper	2.0		2.0	2.5	02/08/12	02/10/12 12:05	EPA 200.8/R3QA116
Iron	109		100	1	02/08/12	02/10/12 11:18	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/08/12	02/10/12 12:05	EPA 200.8/R3QA116
Lithium	U		200	1	02/08/12	02/10/12 11:18	EPA 200.7/R3QA159
Magnesium	10300		500	1	02/08/12	02/10/12 11:18	EPA 200.7/R3QA159
Manganese	157		1.0	2.5	02/08/12	02/10/12 12:05	EPA 200.8/R3QA116
Nickel	1.4		1.0	2.5	02/08/12	02/10/12 12:05	EPA 200.8/R3QA116
Potassium	U		2000	1	02/08/12	02/10/12 11:18	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/08/12	02/10/12 12:05	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/08/12	02/10/12 12:05	EPA 200.8/R3QA116
Sodium	16900		1000	1	02/08/12	02/10/12 11:18	EPA 200.7/R3QA159
Strontium	803		200	1	02/08/12	02/10/12 11:18	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/08/12	02/10/12 12:05	EPA 200.8/R3QA116
Tin	U		200	1	02/08/12	02/10/12 11:18	EPA 200.7/R3QA159
Titanium	U		200	1	02/08/12	02/10/12 11:18	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/08/12	02/10/12 12:05	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/08/12	02/10/12 12:05	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/08/12	02/10/12 12:05	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW30-PF
Lab ID: 1202003-24
Sample Matrix: Drinking Water
Date Collected: 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/08/12	02/10/12 12:11	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/08/12	02/10/12 12:11	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/08/12	02/10/12 12:11	EPA 200.8/R3QA116
Barium	120		10.0	2.5	02/08/12	02/10/12 12:11	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/08/12	02/10/12 12:11	EPA 200.8/R3QA116
Boron	72.8		50.0	1	02/08/12	02/10/12 11:21	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/08/12	02/10/12 12:11	EPA 200.8/R3QA116
Calcium	34400		500	1	02/08/12	02/10/12 11:21	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/08/12	02/10/12 12:11	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/08/12	02/10/12 12:11	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/08/12	02/10/12 12:11	EPA 200.8/R3QA116
Iron	U		100	1	02/08/12	02/10/12 11:21	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/08/12	02/10/12 12:11	EPA 200.8/R3QA116
Lithium	U		200	1	02/08/12	02/10/12 11:21	EPA 200.7/R3QA159
Magnesium	7600		500	1	02/08/12	02/10/12 11:21	EPA 200.7/R3QA159
Manganese	10.7		1.0	2.5	02/08/12	02/10/12 12:11	EPA 200.8/R3QA116
Nickel	1.3		1.0	2.5	02/08/12	02/10/12 12:11	EPA 200.8/R3QA116
Potassium	U		2000	1	02/08/12	02/10/12 11:21	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/08/12	02/10/12 12:11	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/08/12	02/10/12 12:11	EPA 200.8/R3QA116
Sodium	14700		1000	1	02/08/12	02/10/12 11:21	EPA 200.7/R3QA159
Strontium	1390		200	1	02/08/12	02/10/12 11:21	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/08/12	02/10/12 12:11	EPA 200.8/R3QA116
Tin	U		200	1	02/08/12	02/10/12 11:21	EPA 200.7/R3QA159
Titanium	U		200	1	02/08/12	02/10/12 11:21	EPA 200.7/R3QA159
Uranium	2.9		1.0	2.5	02/08/12	02/10/12 12:11	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/08/12	02/10/12 12:11	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/08/12	02/10/12 12:11	EPA 200.8/R3QA116

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW15a-F
Lab ID: 1202003-25
Sample Matrix: Drinking Water
Date Collected: 02/07/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/08/12	02/10/12 12:16	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/08/12	02/10/12 12:16	EPA 200.8/R3QA116
Arsenic	4.3		1.0	2.5	02/08/12	02/10/12 12:16	EPA 200.8/R3QA116
Barium	545		200	1	02/08/12	02/10/12 11:25	EPA 200.7/R3QA159
Beryllium	U		1.0	2.5	02/08/12	02/10/12 12:16	EPA 200.8/R3QA116
Boron	U		50.0	1	02/08/12	02/10/12 11:25	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/08/12	02/10/12 12:16	EPA 200.8/R3QA116
Calcium	31900		500	1	02/08/12	02/10/12 11:25	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/08/12	02/10/12 12:16	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/08/12	02/10/12 12:16	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/08/12	02/10/12 12:16	EPA 200.8/R3QA116
Iron	U		100	1	02/08/12	02/10/12 11:25	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/08/12	02/10/12 12:16	EPA 200.8/R3QA116
Lithium	U		200	1	02/08/12	02/10/12 11:25	EPA 200.7/R3QA159
Magnesium	10000		500	1	02/08/12	02/10/12 11:25	EPA 200.7/R3QA159
Manganese	160		1.0	2.5	02/08/12	02/10/12 12:16	EPA 200.8/R3QA116
Nickel	1.1		1.0	2.5	02/08/12	02/10/12 12:16	EPA 200.8/R3QA116
Potassium	U		2000	1	02/08/12	02/10/12 11:25	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/08/12	02/10/12 12:16	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/08/12	02/10/12 12:16	EPA 200.8/R3QA116
Sodium	16200		1000	1	02/08/12	02/10/12 11:25	EPA 200.7/R3QA159
Strontium	789		200	1	02/08/12	02/10/12 11:25	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/08/12	02/10/12 12:16	EPA 200.8/R3QA116
Tin	U		200	1	02/08/12	02/10/12 11:25	EPA 200.7/R3QA159
Titanium	U		200	1	02/08/12	02/10/12 11:25	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/08/12	02/10/12 12:16	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/08/12	02/10/12 12:16	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/08/12	02/10/12 12:16	EPA 200.8/R3QA116

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Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW31-F
Lab ID: 1202003-26
Sample Matrix: Drinking Water
Date Collected: 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/08/12	02/10/12 12:21	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/08/12	02/10/12 12:21	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/08/12	02/10/12 12:21	EPA 200.8/R3QA116
Barium	517		200	1	02/08/12	02/10/12 11:29	EPA 200.7/R3QA159
Beryllium	U		1.0	2.5	02/08/12	02/10/12 12:21	EPA 200.8/R3QA116
Boron	62.7		50.0	1	02/08/12	02/10/12 11:29	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/08/12	02/10/12 12:21	EPA 200.8/R3QA116
Calcium	32000		500	1	02/08/12	02/10/12 11:29	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/08/12	02/10/12 12:21	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/08/12	02/10/12 12:21	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/08/12	02/10/12 12:21	EPA 200.8/R3QA116
Iron	U		100	1	02/08/12	02/10/12 11:29	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/08/12	02/10/12 12:21	EPA 200.8/R3QA116
Lithium	U		200	1	02/08/12	02/10/12 11:29	EPA 200.7/R3QA159
Magnesium	8640		500	1	02/08/12	02/10/12 11:29	EPA 200.7/R3QA159
Manganese	155		1.0	2.5	02/08/12	02/10/12 12:21	EPA 200.8/R3QA116
Nickel	1.3		1.0	2.5	02/08/12	02/10/12 12:21	EPA 200.8/R3QA116
Potassium	U		2000	1	02/08/12	02/10/12 11:29	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/08/12	02/10/12 12:21	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/08/12	02/10/12 12:21	EPA 200.8/R3QA116
Sodium	25800		1000	1	02/08/12	02/10/12 11:29	EPA 200.7/R3QA159
Strontium	871		200	1	02/08/12	02/10/12 11:29	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/08/12	02/10/12 12:21	EPA 200.8/R3QA116
Tin	U		200	1	02/08/12	02/10/12 11:29	EPA 200.7/R3QA159
Titanium	U		200	1	02/08/12	02/10/12 11:29	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/08/12	02/10/12 12:21	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/08/12	02/10/12 12:21	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/08/12	02/10/12 12:21	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW31z-F
Lab ID: 1202003-27
Sample Matrix: Drinking Water
Date Collected: 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/08/12	02/10/12 12:32	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/08/12	02/10/12 12:32	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/08/12	02/10/12 12:32	EPA 200.8/R3QA116
Barium	535		200	1	02/08/12	02/10/12 11:36	EPA 200.7/R3QA159
Beryllium	U		1.0	2.5	02/08/12	02/10/12 12:32	EPA 200.8/R3QA116
Boron	64.1		50.0	1	02/08/12	02/10/12 11:36	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/08/12	02/10/12 12:32	EPA 200.8/R3QA116
Calcium	33300		500	1	02/08/12	02/10/12 11:36	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/08/12	02/10/12 12:32	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/08/12	02/10/12 12:32	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/08/12	02/10/12 12:32	EPA 200.8/R3QA116
Iron	U		100	1	02/08/12	02/10/12 11:36	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/08/12	02/10/12 12:32	EPA 200.8/R3QA116
Lithium	U		200	1	02/08/12	02/10/12 11:36	EPA 200.7/R3QA159
Magnesium	8970		500	1	02/08/12	02/10/12 11:36	EPA 200.7/R3QA159
Manganese	166		1.0	2.5	02/08/12	02/10/12 12:32	EPA 200.8/R3QA116
Nickel	1.3		1.0	2.5	02/08/12	02/10/12 12:32	EPA 200.8/R3QA116
Potassium	U		2000	1	02/08/12	02/10/12 11:36	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/08/12	02/10/12 12:32	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/08/12	02/10/12 12:32	EPA 200.8/R3QA116
Sodium	27000		1000	1	02/08/12	02/10/12 11:36	EPA 200.7/R3QA159
Strontium	910		200	1	02/08/12	02/10/12 11:36	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/08/12	02/10/12 12:32	EPA 200.8/R3QA116
Tin	U		200	1	02/08/12	02/10/12 11:36	EPA 200.7/R3QA159
Titanium	U		200	1	02/08/12	02/10/12 11:36	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/08/12	02/10/12 12:32	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/08/12	02/10/12 12:32	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/08/12	02/10/12 12:32	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW30-F
Lab ID: 1202003-28
Sample Matrix: Drinking Water
Date Collected: 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/08/12	02/10/12 12:37	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/08/12	02/10/12 12:37	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/08/12	02/10/12 12:37	EPA 200.8/R3QA116
Barium	121		10.0	2.5	02/08/12	02/10/12 12:37	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/08/12	02/10/12 12:37	EPA 200.8/R3QA116
Boron	63.9		50.0	1	02/08/12	02/10/12 11:40	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/08/12	02/10/12 12:37	EPA 200.8/R3QA116
Calcium	35600		500	1	02/08/12	02/10/12 11:40	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/08/12	02/10/12 12:37	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/08/12	02/10/12 12:37	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/08/12	02/10/12 12:37	EPA 200.8/R3QA116
Iron	U		100	1	02/08/12	02/10/12 11:40	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/08/12	02/10/12 12:37	EPA 200.8/R3QA116
Lithium	U		200	1	02/08/12	02/10/12 11:40	EPA 200.7/R3QA159
Magnesium	8030		500	1	02/08/12	02/10/12 11:40	EPA 200.7/R3QA159
Manganese	8.5		1.0	2.5	02/08/12	02/10/12 12:37	EPA 200.8/R3QA116
Nickel	1.2		1.0	2.5	02/08/12	02/10/12 12:37	EPA 200.8/R3QA116
Potassium	U		2000	1	02/08/12	02/10/12 11:40	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/08/12	02/10/12 12:37	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/08/12	02/10/12 12:37	EPA 200.8/R3QA116
Sodium	14400		1000	1	02/08/12	02/10/12 11:40	EPA 200.7/R3QA159
Strontium	1330		200	1	02/08/12	02/10/12 11:40	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/08/12	02/10/12 12:37	EPA 200.8/R3QA116
Tin	U		200	1	02/08/12	02/10/12 11:40	EPA 200.7/R3QA159
Titanium	U		200	1	02/08/12	02/10/12 11:40	EPA 200.7/R3QA159
Uranium	3.1		1.0	2.5	02/08/12	02/10/12 12:37	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/08/12	02/10/12 12:37	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/08/12	02/10/12 12:37	EPA 200.8/R3QA116

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Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW31-PF
Lab ID: 1202003-29
Sample Matrix: Drinking Water
Date Collected: 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/08/12	02/10/12 12:48	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/08/12	02/10/12 12:48	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/08/12	02/10/12 12:48	EPA 200.8/R3QA116
Barium	512		200	1	02/08/12	02/10/12 11:55	EPA 200.7/R3QA159
Beryllium	U		1.0	2.5	02/08/12	02/10/12 12:48	EPA 200.8/R3QA116
Boron	79.5		50.0	1	02/08/12	02/10/12 11:55	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/08/12	02/10/12 12:48	EPA 200.8/R3QA116
Calcium	33100		500	1	02/08/12	02/10/12 11:55	EPA 200.7/R3QA159
Chromium	2.3		2.0	2.5	02/08/12	02/10/12 12:48	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/08/12	02/10/12 12:48	EPA 200.8/R3QA116
Copper	4.6		2.0	2.5	02/08/12	02/10/12 12:48	EPA 200.8/R3QA116
Iron	U		100	1	02/08/12	02/10/12 11:55	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/08/12	02/10/12 12:48	EPA 200.8/R3QA116
Lithium	U		200	1	02/08/12	02/10/12 11:55	EPA 200.7/R3QA159
Magnesium	8930		500	1	02/08/12	02/10/12 11:55	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/08/12	02/10/12 12:48	EPA 200.8/R3QA116
Nickel	1.4		1.0	2.5	02/08/12	02/10/12 12:48	EPA 200.8/R3QA116
Potassium	U		2000	1	02/08/12	02/10/12 11:55	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/08/12	02/10/12 12:48	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/08/12	02/10/12 12:48	EPA 200.8/R3QA116
Sodium	26200		1000	1	02/08/12	02/10/12 11:55	EPA 200.7/R3QA159
Strontium	898		200	1	02/08/12	02/10/12 11:55	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/08/12	02/10/12 12:48	EPA 200.8/R3QA116
Tin	U		200	1	02/08/12	02/10/12 11:55	EPA 200.7/R3QA159
Titanium	U		200	1	02/08/12	02/10/12 11:55	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/08/12	02/10/12 12:48	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/08/12	02/10/12 12:48	EPA 200.8/R3QA116
Zinc	3.4		2.0	2.5	02/08/12	02/10/12 12:48	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW15a-PF
Lab ID: 1202003-30
Sample Matrix: Drinking Water
Date Collected: 02/07/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/08/12	02/10/12 12:54	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/08/12	02/10/12 12:54	EPA 200.8/R3QA116
Arsenic	2.8		1.0	2.5	02/08/12	02/10/12 12:54	EPA 200.8/R3QA116
Barium	19.5		10.0	2.5	02/08/12	02/10/12 12:54	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/08/12	02/10/12 12:54	EPA 200.8/R3QA116
Boron	U		50.0	1	02/08/12	02/10/12 11:59	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/08/12	02/10/12 12:54	EPA 200.8/R3QA116
Calcium	1560		500	1	02/08/12	02/10/12 11:59	EPA 200.7/R3QA159
Chromium	2.2		2.0	2.5	02/08/12	02/10/12 12:54	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/08/12	02/10/12 12:54	EPA 200.8/R3QA116
Copper	11.5		2.0	2.5	02/08/12	02/10/12 12:54	EPA 200.8/R3QA116
Iron	U		100	1	02/08/12	02/10/12 11:59	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/08/12	02/10/12 12:54	EPA 200.8/R3QA116
Lithium	U		200	1	02/08/12	02/10/12 11:59	EPA 200.7/R3QA159
Magnesium	632		500	1	02/08/12	02/10/12 11:59	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/08/12	02/10/12 12:54	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	02/08/12	02/10/12 12:54	EPA 200.8/R3QA116
Potassium	U		2000	1	02/08/12	02/10/12 11:59	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/08/12	02/10/12 12:54	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/08/12	02/10/12 12:54	EPA 200.8/R3QA116
Sodium	66000		1000	1	02/08/12	02/10/12 11:59	EPA 200.7/R3QA159
Strontium	U		200	1	02/08/12	02/10/12 11:59	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/08/12	02/10/12 12:54	EPA 200.8/R3QA116
Tin	U		200	1	02/08/12	02/10/12 11:59	EPA 200.7/R3QA159
Titanium	U		200	1	02/08/12	02/10/12 11:59	EPA 200.7/R3QA159
Uranium	1.2		1.0	2.5	02/08/12	02/10/12 12:54	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/08/12	02/10/12 12:54	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/08/12	02/10/12 12:54	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: FB11-F
Lab ID: 1202003-31
Sample Matrix: Water
Date Collected: 02/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/08/12	02/10/12 13:09	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/08/12	02/10/12 13:09	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/08/12	02/10/12 13:09	EPA 200.8/R3QA116
Barium	U		10.0	2.5	02/08/12	02/10/12 13:09	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/08/12	02/10/12 13:09	EPA 200.8/R3QA116
Boron	U		50.0	1	02/08/12	02/10/12 12:04	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/08/12	02/10/12 13:09	EPA 200.8/R3QA116
Calcium	U		500	1	02/08/12	02/10/12 12:04	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/08/12	02/10/12 13:09	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/08/12	02/10/12 13:09	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/08/12	02/10/12 13:09	EPA 200.8/R3QA116
Iron	U		100	1	02/08/12	02/10/12 12:04	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/08/12	02/10/12 13:09	EPA 200.8/R3QA116
Lithium	U		200	1	02/08/12	02/10/12 12:04	EPA 200.7/R3QA159
Magnesium	U		500	1	02/08/12	02/10/12 12:04	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/08/12	02/10/12 13:09	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	02/08/12	02/10/12 13:09	EPA 200.8/R3QA116
Potassium	U		2000	1	02/08/12	02/10/12 12:04	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/08/12	02/10/12 13:09	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/08/12	02/10/12 13:09	EPA 200.8/R3QA116
Sodium	U		1000	1	02/08/12	02/10/12 12:04	EPA 200.7/R3QA159
Strontium	U		200	1	02/08/12	02/10/12 12:04	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/08/12	02/10/12 13:09	EPA 200.8/R3QA116
Tin	U		200	1	02/08/12	02/10/12 12:04	EPA 200.7/R3QA159
Titanium	U		200	1	02/08/12	02/10/12 12:04	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/08/12	02/10/12 13:09	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/08/12	02/10/12 13:09	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/08/12	02/10/12 13:09	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW38-P
Lab ID: 1202003-32
Sample Matrix: Drinking Water
Date Collected: 02/08/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/09/12	02/13/12 10:21	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/09/12	02/13/12 10:21	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/09/12	02/13/12 10:21	EPA 200.8/R3QA116
Barium	120		10.0	2.5	02/09/12	02/13/12 10:21	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/09/12	02/13/12 10:21	EPA 200.8/R3QA116
Boron	U		50.0	1	02/09/12	02/13/12 10:26	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/09/12	02/13/12 10:21	EPA 200.8/R3QA116
Calcium	16000		500	1	02/09/12	02/13/12 10:26	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/09/12	02/13/12 10:21	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/09/12	02/13/12 10:21	EPA 200.8/R3QA116
Copper	98.8		2.0	2.5	02/09/12	02/13/12 10:21	EPA 200.8/R3QA116
Iron	U		100	1	02/09/12	02/13/12 10:26	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/09/12	02/13/12 10:21	EPA 200.8/R3QA116
Lithium	U		200	1	02/09/12	02/13/12 10:26	EPA 200.7/R3QA159
Magnesium	3260		500	1	02/09/12	02/13/12 10:26	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/09/12	02/13/12 10:21	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	02/09/12	02/13/12 10:21	EPA 200.8/R3QA116
Potassium	U		2000	1	02/09/12	02/13/12 10:26	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/09/12	02/13/12 10:21	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/09/12	02/13/12 10:21	EPA 200.8/R3QA116
Sodium	5590		1000	1	02/09/12	02/13/12 10:26	EPA 200.7/R3QA159
Strontium	U		200	1	02/09/12	02/13/12 10:26	EPA 200.7/R3QA159
Thallium	U		200	1	02/09/12	02/13/12 10:26	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/09/12	02/13/12 10:21	EPA 200.8/R3QA116
Tin	U		200	1	02/09/12	02/13/12 10:26	EPA 200.7/R3QA159
Titanium	U		200	1	02/09/12	02/13/12 10:26	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/09/12	02/13/12 10:21	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/09/12	02/13/12 10:21	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/09/12	02/13/12 10:21	EPA 200.8/R3QA116

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: FB13
Lab ID: 1202003-33
Sample Matrix: Water
Date Collected: 02/08/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/09/12	02/13/12 10:26	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/09/12	02/13/12 10:26	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/09/12	02/13/12 10:26	EPA 200.8/R3QA116
Barium	U		10.0	2.5	02/09/12	02/13/12 10:26	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/09/12	02/13/12 10:26	EPA 200.8/R3QA116
Boron	U		50.0	1	02/09/12	02/13/12 10:29	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/09/12	02/13/12 10:26	EPA 200.8/R3QA116
Calcium	U		500	1	02/09/12	02/13/12 10:29	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/09/12	02/13/12 10:26	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/09/12	02/13/12 10:26	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/09/12	02/13/12 10:26	EPA 200.8/R3QA116
Iron	U		100	1	02/09/12	02/13/12 10:29	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/09/12	02/13/12 10:26	EPA 200.8/R3QA116
Lithium	U		200	1	02/09/12	02/13/12 10:29	EPA 200.7/R3QA159
Magnesium	U		500	1	02/09/12	02/13/12 10:29	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/09/12	02/13/12 10:26	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	02/09/12	02/13/12 10:26	EPA 200.8/R3QA116
Potassium	U		2000	1	02/09/12	02/13/12 10:29	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/09/12	02/13/12 10:26	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/09/12	02/13/12 10:26	EPA 200.8/R3QA116
Sodium	U		1000	1	02/09/12	02/13/12 10:29	EPA 200.7/R3QA159
Strontium	U		200	1	02/09/12	02/13/12 10:29	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/09/12	02/13/12 10:26	EPA 200.8/R3QA116
Tin	U		200	1	02/09/12	02/13/12 10:29	EPA 200.7/R3QA159
Titanium	U		200	1	02/09/12	02/13/12 10:29	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/09/12	02/13/12 10:26	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/09/12	02/13/12 10:26	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/09/12	02/13/12 10:26	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: FB12
Lab ID: 1202003-34
Sample Matrix: Water
Date Collected: 02/07/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/09/12	02/13/12 10:31	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/09/12	02/13/12 10:31	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/09/12	02/13/12 10:31	EPA 200.8/R3QA116
Barium	U		10.0	2.5	02/09/12	02/13/12 10:31	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/09/12	02/13/12 10:31	EPA 200.8/R3QA116
Boron	U		50.0	1	02/09/12	02/13/12 10:33	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/09/12	02/13/12 10:31	EPA 200.8/R3QA116
Calcium	U		500	1	02/09/12	02/13/12 10:33	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/09/12	02/13/12 10:31	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/09/12	02/13/12 10:31	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/09/12	02/13/12 10:31	EPA 200.8/R3QA116
Iron	U		100	1	02/09/12	02/13/12 10:33	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/09/12	02/13/12 10:31	EPA 200.8/R3QA116
Lithium	U		200	1	02/09/12	02/13/12 10:33	EPA 200.7/R3QA159
Magnesium	U		500	1	02/09/12	02/13/12 10:33	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/09/12	02/13/12 10:31	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	02/09/12	02/13/12 10:31	EPA 200.8/R3QA116
Potassium	U		2000	1	02/09/12	02/13/12 10:33	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/09/12	02/13/12 10:31	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/09/12	02/13/12 10:31	EPA 200.8/R3QA116
Sodium	U		1000	1	02/09/12	02/13/12 10:33	EPA 200.7/R3QA159
Strontium	U		200	1	02/09/12	02/13/12 10:33	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/09/12	02/13/12 10:31	EPA 200.8/R3QA116
Tin	U		200	1	02/09/12	02/13/12 10:33	EPA 200.7/R3QA159
Titanium	U		200	1	02/09/12	02/13/12 10:33	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/09/12	02/13/12 10:31	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/09/12	02/13/12 10:31	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/09/12	02/13/12 10:31	EPA 200.8/R3QA116

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

DRAFT

Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW47	**Lab ID:** 1202003-35
Sample Matrix: Drinking Water	**Date Collected:** 02/08/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/09/12	02/13/12 10:37	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/09/12	02/13/12 10:37	EPA 200.8/R3QA116
Arsenic	90.7		1.0	2.5	02/09/12	02/13/12 10:37	EPA 200.8/R3QA116
Barium	485		200	1	02/09/12	02/13/12 10:37	EPA 200.7/R3QA159
Beryllium	U		1.0	2.5	02/09/12	02/13/12 10:37	EPA 200.8/R3QA116
Boron	120		50.0	1	02/09/12	02/13/12 10:37	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/09/12	02/13/12 10:37	EPA 200.8/R3QA116
Calcium	23700		500	1	02/09/12	02/13/12 10:37	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/09/12	02/13/12 10:37	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/09/12	02/13/12 10:37	EPA 200.8/R3QA116
Copper	10.1		2.0	2.5	02/09/12	02/13/12 10:37	EPA 200.8/R3QA116
Iron	4550		100	1	02/09/12	02/13/12 10:37	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/09/12	02/13/12 10:37	EPA 200.8/R3QA116
Lithium	U		200	1	02/09/12	02/13/12 10:37	EPA 200.7/R3QA159
Magnesium	3950		500	1	02/09/12	02/13/12 10:37	EPA 200.7/R3QA159
Manganese	1180	947	1.0	2.5	02/09/12	02/13/12 10:37	EPA 200.8/R3QA116
Nickel	1.0		1.0	2.5	02/09/12	02/13/12 10:37	EPA 200.8/R3QA116
Potassium	U		2000	1	02/09/12	02/13/12 10:37	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/09/12	02/13/12 10:37	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/09/12	02/13/12 10:37	EPA 200.8/R3QA116
Sodium	53600		1000	1	02/09/12	02/13/12 10:37	EPA 200.7/R3QA159
Strontium	757		200	1	02/09/12	02/13/12 10:37	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/09/12	02/13/12 10:37	EPA 200.8/R3QA116
Tin	U		200	1	02/09/12	02/13/12 10:37	EPA 200.7/R3QA159
Titanium	U		200	1	02/09/12	02/13/12 10:37	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/09/12	02/13/12 10:37	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/09/12	02/13/12 10:37	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/09/12	02/13/12 10:37	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW51
Lab ID: 1202003-36
Sample Matrix: Drinking Water
Date Collected: 02/07/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	46.5		30.0	2.5	02/09/12	02/13/12 10:47	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/09/12	02/13/12 10:47	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/09/12	02/13/12 10:47	EPA 200.8/R3QA116
Barium	69.1		10.0	2.5	02/09/12	02/13/12 10:47	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/09/12	02/13/12 10:47	EPA 200.8/R3QA116
Boron	U		50.0	1	02/09/12	02/13/12 10:47	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/09/12	02/13/12 10:47	EPA 200.8/R3QA116
Calcium	28000		500	1	02/09/12	02/13/12 10:47	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/09/12	02/13/12 10:47	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/09/12	02/13/12 10:47	EPA 200.8/R3QA116
Copper	34.4		2.0	2.5	02/09/12	02/13/12 10:47	EPA 200.8/R3QA116
Iron	U		100	1	02/09/12	02/13/12 10:47	EPA 200.7/R3QA159
Lead	1.2		1.0	2.5	02/09/12	02/13/12 10:47	EPA 200.8/R3QA116
Lithium	U		200	1	02/09/12	02/13/12 10:47	EPA 200.7/R3QA159
Magnesium	6780		500	1	02/09/12	02/13/12 10:47	EPA 200.7/R3QA159
Manganese	39.9		1.0	2.5	02/09/12	02/13/12 10:47	EPA 200.8/R3QA116
Nickel	1.4		1.0	2.5	02/09/12	02/13/12 10:47	EPA 200.8/R3QA116
Potassium	U		2000	1	02/09/12	02/13/12 10:47	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/09/12	02/13/12 10:47	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/09/12	02/13/12 10:47	EPA 200.8/R3QA116
Sodium	5230		1000	1	02/09/12	02/13/12 10:47	EPA 200.7/R3QA159
Strontium	212		200	1	02/09/12	02/13/12 10:47	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/09/12	02/13/12 10:47	EPA 200.8/R3QA116
Tin	U		200	1	02/09/12	02/13/12 10:47	EPA 200.7/R3QA159
Titanium	U		200	1	02/09/12	02/13/12 10:47	EPA 200.7/R3QA159
Uranium	1.0		1.0	2.5	02/09/12	02/13/12 10:47	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/09/12	02/13/12 10:47	EPA 200.8/R3QA116
Zinc	2.7	J	2.0	2.5	02/09/12	02/13/12 10:47	EPA 200.8/R3QA116

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Office of Analytical Services and Quality Assurance
701 Mapes Road
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DRAFT

Site Name: Dimock Residential Groundwater
Station ID: HW38
Sample Matrix: Drinking Water
Project #: DAS R33907
Lab ID: 1202003-37
Date Collected: 02/08/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/09/12	02/13/12 10:58	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/09/12	02/13/12 10:58	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/09/12	02/13/12 10:58	EPA 200.8/R3QA116
Barium	116		10.0	2.5	02/09/12	02/13/12 10:58	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/09/12	02/13/12 10:58	EPA 200.8/R3QA116
Boron	U		50.0	1	02/09/12	02/13/12 10:54	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/09/12	02/13/12 10:58	EPA 200.8/R3QA116
Calcium	16100		500	1	02/09/12	02/13/12 10:54	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/09/12	02/13/12 10:58	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/09/12	02/13/12 10:58	EPA 200.8/R3QA116
Copper	25.6		2.0	2.5	02/09/12	02/13/12 10:58	EPA 200.8/R3QA116
Iron	U		100	1	02/09/12	02/13/12 10:54	EPA 200.7/R3QA159
Lead	1.4		1.0	2.5	02/09/12	02/13/12 10:58	EPA 200.8/R3QA116
Lithium	U		200	1	02/09/12	02/13/12 10:54	EPA 200.7/R3QA159
Magnesium	3300		500	1	02/09/12	02/13/12 10:54	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/09/12	02/13/12 10:58	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	02/09/12	02/13/12 10:58	EPA 200.8/R3QA116
Potassium	U		2000	1	02/09/12	02/13/12 10:54	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/09/12	02/13/12 10:58	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/09/12	02/13/12 10:58	EPA 200.8/R3QA116
Sodium	5670		1000	1	02/09/12	02/13/12 10:54	EPA 200.7/R3QA159
Strontium	U		200	1	02/09/12	02/13/12 10:54	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/09/12	02/13/12 10:58	EPA 200.8/R3QA116
Tin	U		200	1	02/09/12	02/13/12 10:54	EPA 200.7/R3QA159
Titanium	U		200	1	02/09/12	02/13/12 10:54	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/09/12	02/13/12 10:58	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/09/12	02/13/12 10:58	EPA 200.8/R3QA116
Zinc	5.5	J	2.0	2.5	02/09/12	02/13/12 10:58	EPA 200.8/R3QA116

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW51-P
Lab ID: 1202003-38
Sample Matrix: Drinking Water
Date Collected: 02/07/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/09/12	02/13/12 11:14	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/09/12	02/13/12 11:14	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/09/12	02/13/12 11:14	EPA 200.8/R3QA116
Barium	70.1		10.0	2.5	02/09/12	02/13/12 11:14	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/09/12	02/13/12 11:14	EPA 200.8/R3QA116
Boron	U		50.0	1	02/09/12	02/13/12 11:06	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/09/12	02/13/12 11:14	EPA 200.8/R3QA116
Calcium	27900		500	1	02/09/12	02/13/12 11:06	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/09/12	02/13/12 11:14	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/09/12	02/13/12 11:14	EPA 200.8/R3QA116
Copper	11.7		2.0	2.5	02/09/12	02/13/12 11:14	EPA 200.8/R3QA116
Iron	U		100	1	02/09/12	02/13/12 11:06	EPA 200.7/R3QA159
Lead	1.1		1.0	2.5	02/09/12	02/13/12 11:14	EPA 200.8/R3QA116
Lithium	U		200	1	02/09/12	02/13/12 11:06	EPA 200.7/R3QA159
Magnesium	6730		500	1	02/09/12	02/13/12 11:06	EPA 200.7/R3QA159
Manganese	40.8		1.0	2.5	02/09/12	02/13/12 11:14	EPA 200.8/R3QA116
Nickel	1.5		1.0	2.5	02/09/12	02/13/12 11:14	EPA 200.8/R3QA116
Potassium	U		2000	1	02/09/12	02/13/12 11:06	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/09/12	02/13/12 11:14	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/09/12	02/13/12 11:14	EPA 200.8/R3QA116
Sodium	5110		1000	1	02/09/12	02/13/12 11:06	EPA 200.7/R3QA159
Strontium	211		200	1	02/09/12	02/13/12 11:06	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/09/12	02/13/12 11:14	EPA 200.8/R3QA116
Tin	U		200	1	02/09/12	02/13/12 11:06	EPA 200.7/R3QA159
Titanium	U		200	1	02/09/12	02/13/12 11:06	EPA 200.7/R3QA159
Uranium	1.0		1.0	2.5	02/09/12	02/13/12 11:14	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/09/12	02/13/12 11:14	EPA 200.8/R3QA116
Zinc	7.2	J	2.0	2.5	02/09/12	02/13/12 11:14	EPA 200.8/R3QA116

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Region 3 Environmental Science Center
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701 Mapes Road
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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW47-P
Lab ID: 1202003-39
Sample Matrix: Drinking Water
Date Collected: 02/08/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/09/12	02/13/12 11:19	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/09/12	02/13/12 11:19	EPA 200.8/R3QA116
Arsenic	91.1		1.0	2.5	02/09/12	02/13/12 11:19	EPA 200.8/R3QA116
Barium	U		10.0	2.5	02/09/12	02/13/12 11:19	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/09/12	02/13/12 11:19	EPA 200.8/R3QA116
Boron	127		50.0	1	02/09/12	02/13/12 11:10	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/09/12	02/13/12 11:19	EPA 200.8/R3QA116
Calcium	U		500	1	02/09/12	02/13/12 11:10	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/09/12	02/13/12 11:19	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/09/12	02/13/12 11:19	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/09/12	02/13/12 11:19	EPA 200.8/R3QA116
Iron	U		100	1	02/09/12	02/13/12 11:10	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/09/12	02/13/12 11:19	EPA 200.8/R3QA116
Lithium	U		200	1	02/09/12	02/13/12 11:10	EPA 200.7/R3QA159
Magnesium	U		500	1	02/09/12	02/13/12 11:10	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/09/12	02/13/12 11:19	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	02/09/12	02/13/12 11:19	EPA 200.8/R3QA116
Potassium	U		2000	1	02/09/12	02/13/12 11:10	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/09/12	02/13/12 11:19	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/09/12	02/13/12 11:19	EPA 200.8/R3QA116
Sodium	93900		1000	1	02/09/12	02/13/12 11:10	EPA 200.7/R3QA159
Strontium	U		200	1	02/09/12	02/13/12 11:10	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/09/12	02/13/12 11:19	EPA 200.8/R3QA116
Tin	U		200	1	02/09/12	02/13/12 11:10	EPA 200.7/R3QA159
Titanium	U		200	1	02/09/12	02/13/12 11:10	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/09/12	02/13/12 11:19	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/09/12	02/13/12 11:19	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/09/12	02/13/12 11:19	EPA 200.8/R3QA116

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Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
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Site Name: Dimock Residential Groundwater
Station ID: HW51-PF
Sample Matrix: Drinking Water
Project #: DAS R33907
Lab ID: 1202003-40
Date Collected: 02/07/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/09/12	02/13/12 11:24	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/09/12	02/13/12 11:24	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/09/12	02/13/12 11:24	EPA 200.8/R3QA116
Barium	71.3		10.0	2.5	02/09/12	02/13/12 11:24	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/09/12	02/13/12 11:24	EPA 200.8/R3QA116
Boron	U		50.0	1	02/09/12	02/13/12 11:15	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/09/12	02/13/12 11:24	EPA 200.8/R3QA116
Calcium	27400		500	1	02/09/12	02/13/12 11:15	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/09/12	02/13/12 11:24	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/09/12	02/13/12 11:24	EPA 200.8/R3QA116
Copper	7.3		2.0	2.5	02/09/12	02/13/12 11:24	EPA 200.8/R3QA116
Iron	U		100	1	02/09/12	02/13/12 11:15	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/09/12	02/13/12 11:24	EPA 200.8/R3QA116
Lithium	U		200	1	02/09/12	02/13/12 11:15	EPA 200.7/R3QA159
Magnesium	6650		500	1	02/09/12	02/13/12 11:15	EPA 200.7/R3QA159
Manganese	40.5		1.0	2.5	02/09/12	02/13/12 11:24	EPA 200.8/R3QA116
Nickel	1.2		1.0	2.5	02/09/12	02/13/12 11:24	EPA 200.8/R3QA116
Potassium	U		2000	1	02/09/12	02/13/12 11:15	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/09/12	02/13/12 11:24	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/09/12	02/13/12 11:24	EPA 200.8/R3QA116
Sodium	5080		1000	1	02/09/12	02/13/12 11:15	EPA 200.7/R3QA159
Strontium	208		200	1	02/09/12	02/13/12 11:15	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/09/12	02/13/12 11:24	EPA 200.8/R3QA116
Tin	U		200	1	02/09/12	02/13/12 11:15	EPA 200.7/R3QA159
Titanium	U		200	1	02/09/12	02/13/12 11:15	EPA 200.7/R3QA159
Uranium	1.0		1.0	2.5	02/09/12	02/13/12 11:24	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/09/12	02/13/12 11:24	EPA 200.8/R3QA116
Zinc	2.3	J	2.0	2.5	02/09/12	02/13/12 11:24	EPA 200.8/R3QA116

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
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Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW38-F
Lab ID: 1202003-41
Sample Matrix: Drinking Water
Date Collected: 02/08/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/09/12	02/13/12 11:29	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/09/12	02/13/12 11:29	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/09/12	02/13/12 11:29	EPA 200.8/R3QA116
Barium	119		10.0	2.5	02/09/12	02/13/12 11:29	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/09/12	02/13/12 11:29	EPA 200.8/R3QA116
Boron	U		50.0	1	02/09/12	02/13/12 11:18	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/09/12	02/13/12 11:29	EPA 200.8/R3QA116
Calcium	15800		500	1	02/09/12	02/13/12 11:18	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/09/12	02/13/12 11:29	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/09/12	02/13/12 11:29	EPA 200.8/R3QA116
Copper	19.8		2.0	2.5	02/09/12	02/13/12 11:29	EPA 200.8/R3QA116
Iron	U		100	1	02/09/12	02/13/12 11:18	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/09/12	02/13/12 11:29	EPA 200.8/R3QA116
Lithium	U		200	1	02/09/12	02/13/12 11:18	EPA 200.7/R3QA159
Magnesium	3230		500	1	02/09/12	02/13/12 11:18	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/09/12	02/13/12 11:29	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	02/09/12	02/13/12 11:29	EPA 200.8/R3QA116
Potassium	U		2000	1	02/09/12	02/13/12 11:18	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/09/12	02/13/12 11:29	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/09/12	02/13/12 11:29	EPA 200.8/R3QA116
Sodium	5600		1000	1	02/09/12	02/13/12 11:18	EPA 200.7/R3QA159
Strontium	U		200	1	02/09/12	02/13/12 11:18	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/09/12	02/13/12 11:29	EPA 200.8/R3QA116
Tin	U		200	1	02/09/12	02/13/12 11:18	EPA 200.7/R3QA159
Titanium	U		200	1	02/09/12	02/13/12 11:18	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/09/12	02/13/12 11:29	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/09/12	02/13/12 11:29	EPA 200.8/R3QA116
Zinc	3.9	J	2.0	2.5	02/09/12	02/13/12 11:29	EPA 200.8/R3QA116

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
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DRAFT

Site Name: Dimock Residential Groundwater
Station ID: HW47-PF
Sample Matrix: Drinking Water
Project #: DAS R33907
Lab ID: 1202003-42
Date Collected: 02/08/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/09/12	02/13/12 11:40	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/09/12	02/13/12 11:40	EPA 200.8/R3QA116
Arsenic	90.2		1.0	2.5	02/09/12	02/13/12 11:40	EPA 200.8/R3QA116
Barium	U		10.0	2.5	02/09/12	02/13/12 11:40	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/09/12	02/13/12 11:40	EPA 200.8/R3QA116
Boron	119		50.0	1	02/09/12	02/13/12 11:26	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/09/12	02/13/12 11:40	EPA 200.8/R3QA116
Calcium	U		500	1	02/09/12	02/13/12 11:26	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/09/12	02/13/12 11:40	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/09/12	02/13/12 11:40	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/09/12	02/13/12 11:40	EPA 200.8/R3QA116
Iron	U		100	1	02/09/12	02/13/12 11:26	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/09/12	02/13/12 11:40	EPA 200.8/R3QA116
Lithium	U		200	1	02/09/12	02/13/12 11:26	EPA 200.7/R3QA159
Magnesium	U		500	1	02/09/12	02/13/12 11:26	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/09/12	02/13/12 11:40	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	02/09/12	02/13/12 11:40	EPA 200.8/R3QA116
Potassium	U		2000	1	02/09/12	02/13/12 11:26	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/09/12	02/13/12 11:40	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/09/12	02/13/12 11:40	EPA 200.8/R3QA116
Sodium	93600		1000	1	02/09/12	02/13/12 11:26	EPA 200.7/R3QA159
Strontium	U		200	1	02/09/12	02/13/12 11:26	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/09/12	02/13/12 11:40	EPA 200.8/R3QA116
Tin	U		200	1	02/09/12	02/13/12 11:26	EPA 200.7/R3QA159
Titanium	U		200	1	02/09/12	02/13/12 11:26	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/09/12	02/13/12 11:40	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/09/12	02/13/12 11:40	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/09/12	02/13/12 11:40	EPA 200.8/R3QA116

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

DRAFT

Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW38-PF
Lab ID: 1202003-43
Sample Matrix: Drinking Water
Date Collected: 02/08/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/09/12	02/13/12 11:45	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/09/12	02/13/12 11:45	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/09/12	02/13/12 11:45	EPA 200.8/R3QA116
Barium	116		10.0	2.5	02/09/12	02/13/12 11:45	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/09/12	02/13/12 11:45	EPA 200.8/R3QA116
Boron	U		50.0	1	02/09/12	02/13/12 11:31	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/09/12	02/13/12 11:45	EPA 200.8/R3QA116
Calcium	15800		500	1	02/09/12	02/13/12 11:31	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/09/12	02/13/12 11:45	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/09/12	02/13/12 11:45	EPA 200.8/R3QA116
Copper	89.3		2.0	2.5	02/09/12	02/13/12 11:45	EPA 200.8/R3QA116
Iron	U		100	1	02/09/12	02/13/12 11:31	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/09/12	02/13/12 11:45	EPA 200.8/R3QA116
Lithium	U		200	1	02/09/12	02/13/12 11:31	EPA 200.7/R3QA159
Magnesium	3230		500	1	02/09/12	02/13/12 11:31	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/09/12	02/13/12 11:45	EPA 200.8/R3QA116
Nickel	1.7		1.0	2.5	02/09/12	02/13/12 11:45	EPA 200.8/R3QA116
Potassium	U		2000	1	02/09/12	02/13/12 11:31	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/09/12	02/13/12 11:45	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/09/12	02/13/12 11:45	EPA 200.8/R3QA116
Sodium	5650		1000	1	02/09/12	02/13/12 11:31	EPA 200.7/R3QA159
Strontium	U		200	1	02/09/12	02/13/12 11:31	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/09/12	02/13/12 11:45	EPA 200.8/R3QA116
Tin	U		200	1	02/09/12	02/13/12 11:31	EPA 200.7/R3QA159
Titanium	U		200	1	02/09/12	02/13/12 11:31	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/09/12	02/13/12 11:45	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/09/12	02/13/12 11:45	EPA 200.8/R3QA116
Zinc	8.6	J	2.0	2.5	02/09/12	02/13/12 11:45	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: FB13-F
Lab ID: 1202003-44
Sample Matrix: Water
Date Collected: 02/08/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/09/12	02/13/12 11:56	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/09/12	02/13/12 11:56	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/09/12	02/13/12 11:56	EPA 200.8/R3QA116
Barium	U		10.0	2.5	02/09/12	02/13/12 11:56	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/09/12	02/13/12 11:56	EPA 200.8/R3QA116
Boron	U		50.0	1	02/09/12	02/13/12 11:38	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/09/12	02/13/12 11:56	EPA 200.8/R3QA116
Calcium	U		500	1	02/09/12	02/13/12 11:38	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/09/12	02/13/12 11:56	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/09/12	02/13/12 11:56	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/09/12	02/13/12 11:56	EPA 200.8/R3QA116
Iron	U		100	1	02/09/12	02/13/12 11:38	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/09/12	02/13/12 11:56	EPA 200.8/R3QA116
Lithium	U		200	1	02/09/12	02/13/12 11:38	EPA 200.7/R3QA159
Magnesium	U		500	1	02/09/12	02/13/12 11:38	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/09/12	02/13/12 11:56	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	02/09/12	02/13/12 11:56	EPA 200.8/R3QA116
Potassium	U		2000	1	02/09/12	02/13/12 11:38	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/09/12	02/13/12 11:56	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/09/12	02/13/12 11:56	EPA 200.8/R3QA116
Sodium	U		1000	1	02/09/12	02/13/12 11:38	EPA 200.7/R3QA159
Strontium	U		200	1	02/09/12	02/13/12 11:38	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/09/12	02/13/12 11:56	EPA 200.8/R3QA116
Tin	U		200	1	02/09/12	02/13/12 11:38	EPA 200.7/R3QA159
Titanium	U		200	1	02/09/12	02/13/12 11:38	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/09/12	02/13/12 11:56	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/09/12	02/13/12 11:56	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/09/12	02/13/12 11:56	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: FB12-F
Lab ID: 1202003-45
Sample Matrix: Water
Date Collected: 02/07/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/09/12	02/13/12 12:01	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/09/12	02/13/12 12:01	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	02/09/12	02/13/12 12:01	EPA 200.8/R3QA116
Barium	U		10.0	2.5	02/09/12	02/13/12 12:01	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/09/12	02/13/12 12:01	EPA 200.8/R3QA116
Boron	U		50.0	1	02/09/12	02/13/12 11:42	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/09/12	02/13/12 12:01	EPA 200.8/R3QA116
Calcium	U		500	1	02/09/12	02/13/12 11:42	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/09/12	02/13/12 12:01	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/09/12	02/13/12 12:01	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/09/12	02/13/12 12:01	EPA 200.8/R3QA116
Iron	U		100	1	02/09/12	02/13/12 11:42	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/09/12	02/13/12 12:01	EPA 200.8/R3QA116
Lithium	U		200	1	02/09/12	02/13/12 11:42	EPA 200.7/R3QA159
Magnesium	U		500	1	02/09/12	02/13/12 11:42	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	02/09/12	02/13/12 12:01	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	02/09/12	02/13/12 12:01	EPA 200.8/R3QA116
Potassium	U		2000	1	02/09/12	02/13/12 11:42	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/09/12	02/13/12 12:01	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/09/12	02/13/12 12:01	EPA 200.8/R3QA116
Sodium	U		1000	1	02/09/12	02/13/12 11:42	EPA 200.7/R3QA159
Strontium	U		200	1	02/09/12	02/13/12 11:42	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/09/12	02/13/12 12:01	EPA 200.8/R3QA116
Tin	U		200	1	02/09/12	02/13/12 11:42	EPA 200.7/R3QA159
Titanium	U		200	1	02/09/12	02/13/12 11:42	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/09/12	02/13/12 12:01	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/09/12	02/13/12 12:01	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/09/12	02/13/12 12:01	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater
Project #: DAS R33907
Station ID: HW51-F
Lab ID: 1202003-46
Sample Matrix: Drinking Water
Date Collected: 02/07/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/09/12	02/13/12 12:17	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/09/12	02/13/12 12:17	EPA 200.8/R3QA116
Arsenic	1.1		1.0	2.5	02/09/12	02/13/12 12:17	EPA 200.8/R3QA116
Barium	70.9		10.0	2.5	02/09/12	02/13/12 12:17	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	02/09/12	02/13/12 12:17	EPA 200.8/R3QA116
Boron	U		50.0	1	02/09/12	02/13/12 11:53	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/09/12	02/13/12 12:17	EPA 200.8/R3QA116
Calcium	27700		500	1	02/09/12	02/13/12 11:53	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/09/12	02/13/12 12:17	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/09/12	02/13/12 12:17	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/09/12	02/13/12 12:17	EPA 200.8/R3QA116
Iron	U		100	1	02/09/12	02/13/12 11:53	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/09/12	02/13/12 12:17	EPA 200.8/R3QA116
Lithium	U		200	1	02/09/12	02/13/12 11:53	EPA 200.7/R3QA159
Magnesium	6670		500	1	02/09/12	02/13/12 11:53	EPA 200.7/R3QA159
Manganese	39.8		1.0	2.5	02/09/12	02/13/12 12:17	EPA 200.8/R3QA116
Nickel	1.2		1.0	2.5	02/09/12	02/13/12 12:17	EPA 200.8/R3QA116
Potassium	U		2000	1	02/09/12	02/13/12 11:53	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/09/12	02/13/12 12:17	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/09/12	02/13/12 12:17	EPA 200.8/R3QA116
Sodium	5180		1000	1	02/09/12	02/13/12 11:53	EPA 200.7/R3QA159
Strontium	213		200	1	02/09/12	02/13/12 11:53	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/09/12	02/13/12 12:17	EPA 200.8/R3QA116
Tin	U		200	1	02/09/12	02/13/12 11:53	EPA 200.7/R3QA159
Titanium	U		200	1	02/09/12	02/13/12 11:53	EPA 200.7/R3QA159
Uranium	1.1		1.0	2.5	02/09/12	02/13/12 12:17	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/09/12	02/13/12 12:17	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/09/12	02/13/12 12:17	EPA 200.8/R3QA116

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
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DRAFT

Site Name: Dimock Residential Groundwater	**Project #:** DAS R33907
Station ID: HW47-F	**Lab ID:** 1202003-47
Sample Matrix: Drinking Water	**Date Collected:** 02/08/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	02/09/12	02/13/12 12:23	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	02/09/12	02/13/12 12:23	EPA 200.8/R3QA116
Arsenic	94.2		1.0	2.5	02/09/12	02/13/12 12:23	EPA 200.8/R3QA116
Barium	484		200	1	02/09/12	02/13/12 11:57	EPA 200.7/R3QA159
Beryllium	U		1.0	2.5	02/09/12	02/13/12 12:23	EPA 200.8/R3QA116
Boron	140		50.0	1	02/09/12	02/13/12 11:57	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	02/09/12	02/13/12 12:23	EPA 200.8/R3QA116
Calcium	22700		500	1	02/09/12	02/13/12 11:57	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	02/09/12	02/13/12 12:23	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	02/09/12	02/13/12 12:23	EPA 200.8/R3QA116
Copper	U		2.0	2.5	02/09/12	02/13/12 12:23	EPA 200.8/R3QA116
Iron	3530		100	1	02/09/12	02/13/12 11:57	EPA 200.7/R3QA159
Lead	U		1.0	2.5	02/09/12	02/13/12 12:23	EPA 200.8/R3QA116
Lithium	U		200	1	02/09/12	02/13/12 11:57	EPA 200.7/R3QA159
Magnesium	3830		500	1	02/09/12	02/13/12 11:57	EPA 200.7/R3QA159
Manganese	1200	877	1.0	2.5	02/09/12	02/13/12 12:23	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	02/09/12	02/13/12 12:23	EPA 200.8/R3QA116
Potassium	U		2000	1	02/09/12	02/13/12 11:57	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	02/09/12	02/13/12 12:23	EPA 200.8/R3QA116
Silver	U		1.0	2.5	02/09/12	02/13/12 12:23	EPA 200.8/R3QA116
Sodium	56400		1000	1	02/09/12	02/13/12 11:57	EPA 200.7/R3QA159
Strontium	748		200	1	02/09/12	02/13/12 11:57	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	02/09/12	02/13/12 12:23	EPA 200.8/R3QA116
Tin	U		200	1	02/09/12	02/13/12 11:57	EPA 200.7/R3QA159
Titanium	U		200	1	02/09/12	02/13/12 11:57	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	02/09/12	02/13/12 12:23	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	02/09/12	02/13/12 12:23	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	02/09/12	02/13/12 12:23	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater **Project #:** DAS R33907

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB20707 - Metals Water Prep										
Blank (BB20707-BLK1)				Prepared: 02/07/12 16:33	Analyzed: 02/09/12 11:10					
Antimony	U	2.0	ug/L							
Arsenic	U	1.0	"							
Barium	U	10.0	"							
Beryllium	U	1.0	"							
Cadmium	U	1.0	"							
Chromium	U	2.0	"							
Cobalt	U	1.0	"							
Copper	U	2.0	"							
Lead	U	1.0	"							
Manganese	U	1.0	"							
Nickel	U	1.0	"							
Selenium	U	5.0	"							
Silver	U	1.0	"							
Thallium	U	1.0	"							
Vanadium	U	5.0	"							
Zinc	U	2.0	"							
Aluminum	U	30.0	"							
Uranium	U	1.0	"							
Blank (BB20707-BLK2)				Prepared: 02/07/12 16:33	Analyzed: 02/09/12 11:38					
Calcium	U	500	ug/L							
Iron	U	100	"							
Magnesium	U	500	"							
Potassium	U	2000	"							
Sodium	U	1000	"							
Boron	U	50.0	"							
Lithium	U	200	"							
Strontium	U	200	"							
Tin	U	200	"							
Titanium	U	200	"							

DRAFT

Site Name: Dimock Residential Groundwater **Project #:** DAS R33907

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB20707 - Metals Water Prep										
LCS (BB20707-BS1)				Prepared: 02/07/12 16:33		Analyzed: 02/09/12 11:15				
Antimony	52.8755	2.0	ug/L	50.000		106	85-115			
Arsenic	52.5894	1.0	"	50.000		105	85-115			
Barium	212.065	10.0	"	200.00		106	85-115			
Beryllium	5.48975	1.0	"	5.0000		110	85-115			
Cadmium	5.34413	1.0	"	5.0000		107	85-115			
Chromium	53.3869	2.0	"	50.000		107	85-115			
Cobalt	54.2738	1.0	"	50.000		109	85-115			
Copper	54.6900	2.0	"	50.000		109	85-115			
Lead	52.4463	1.0	"	50.000		105	85-115			
Manganese	53.3138	1.0	"	50.000		107	85-115			
Nickel	53.2904	1.0	"	50.000		107	85-115			
Selenium	51.8800	5.0	"	50.000		104	85-115			
Silver	5.43279	1.0	"	5.0000		109	85-115			
Thallium	49.3762	1.0	"	50.000		99	85-115			
Vanadium	52.1329	5.0	"	50.000		104	85-115			
Zinc	54.0418	2.0	"	50.000		108	85-115			
Aluminum	200.654	30.0	"	200.00		100	85-115			
Uranium	50.8368	1.0	"	50.000		102	85-115			
LCS (BB20707-BS2)				Prepared: 02/07/12 16:33		Analyzed: 02/09/12 11:42				
Calcium	10065.9	500	ug/L	10000		101	85-115			
Iron	5000.06	100	"	5000.0		100	85-115			
Magnesium	10041.9	500	"	10000		100	85-115			
Potassium	19600.0	2000	"	20000		98	85-115			
Sodium	10083.6	1000	"	10000		101	85-115			
Boron	495.394	50.0	"	500.00		99	85-115			
Lithium	484.994	200	"	500.00		97	85-115			
Strontium	498.690	200	"	500.00		100	85-115			
Tin	517.948	200	"	500.00		104	85-115			
Titanium	513.394	200	"	500.00		103	85-115			

DRAFT

Site Name: Dimock Residential Groundwater **Project #:** DAS R33907

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB20707 - Metals Water Prep										
Duplicate (BB20707-DUP1)		**Source: 1202003-01**		Prepared: 02/07/12 16:33	Analyzed: 02/09/12 11:37					
Antimony	0.042935	2.0	ug/L		0.050642			16	20	
Arsenic	0.256512	1.0	"		0.642432			86	20	D
Barium	165.622	10.0	"		164.355			0.8	20	
Beryllium	U	1.0	"		U				20	
Cadmium	0.015030	1.0	"		0.046925			103	20	D
Chromium	0.500465	2.0	"		0.148742			108	20	D
Cobalt	0.052145	1.0	"		0.055190			6	20	
Copper	1.80134	2.0	"		1.87932			4	20	
Lead	0.069225	1.0	"		0.077568			11	20	
Manganese	0.563935	1.0	"		0.583438			3	20	
Nickel	1.25274	1.0	"		1.29937			4	20	
Selenium	U	5.0	"		U				20	
Silver	0.000278	1.0	"		0.004418			176	20	D
Thallium	0.059188	1.0	"		0.106590			57	20	D
Vanadium	0.067170	5.0	"		0.098992			38	20	D
Zinc	0.707418	2.0	"		0.905575			25	20	D
Aluminum	1.66424	30.0	"		1.82786			9	20	
Uranium	1.40726	1.0	"		1.42592			1	20	
Duplicate (BB20707-DUP2)		**Source: 1202003-01**		Prepared: 02/07/12 16:33	Analyzed: 02/09/12 11:49					
Calcium	31959.0	500	ug/L		32191.6			0.7	20	
Iron	2.69217	100	"		4.50828			50	20	D
Magnesium	7817.61	500	"		7912.48			1	20	
Potassium	1051.63	2000	"		1075.81			2	20	
Sodium	7189.41	1000	"		7256.66			0.9	20	
Boron	29.5902	50.0	"		31.5072			6	20	
Lithium	14.5225	200	"		14.8400			2	20	
Strontium	1101.73	200	"		1104.46			0.2	20	
Tin	9.58702	200	"		6.73949			35	20	D
Titanium	U	200	"		0.037368				20	

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Site Name: Dimock Residential Groundwater **Project #:** DAS R33907

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB20707 - Metals Water Prep										
Matrix Spike (BB20707-MS1)	**Source: 1202003-04**			Prepared: 02/07/12 16:33		Analyzed: 02/09/12 11:58				
Antimony	52.4227	2.0	ug/L	50.000	0.070535	105	70-130			
Arsenic	53.4863	1.0	"	50.000	0.793820	105	70-130			
Barium	420.924	10.0	"	200.00	213.444	104	70-130			
Beryllium	5.54640	1.0	"	5.0000	0.000528	111	70-130			
Cadmium	5.01655	1.0	"	5.0000	0.015108	100	70-130			
Chromium	51.5949	2.0	"	50.000	0.789765	102	70-130			
Cobalt	50.6904	1.0	"	50.000	0.056815	101	70-130			
Copper	54.4790	2.0	"	50.000	3.57688	102	70-130			
Lead	51.1927	1.0	"	50.000	0.577872	101	70-130			
Manganese	53.0391	1.0	"	50.000	1.94780	102	70-130			
Nickel	50.9198	1.0	"	50.000	1.44763	99	70-130			
Selenium	51.8488	5.0	"	50.000	U	104	70-130			
Silver	5.09309	1.0	"	5.0000	0.000448	102	70-130			
Thallium	48.0074	1.0	"	50.000	0.013248	96	70-130			
Vanadium	50.7986	5.0	"	50.000	0.056072	101	70-130			
Zinc	52.7460	2.0	"	50.000	1.05926	103	70-130			
Aluminum	211.405	30.0	"	200.00	6.77504	102	70-130			
Uranium	53.5868	1.0	"	50.000	3.95653	99	70-130			
Matrix Spike (BB20707-MS2)	**Source: 1202003-04**			Prepared: 02/07/12 16:33		Analyzed: 02/09/12 12:12				
Calcium	47536.5	500	ug/L	10000	37060.4	105	70-130			
Iron	5385.68	100	"	5000.0	239.621	103	70-130			
Magnesium	18399.3	500	"	10000	8213.14	102	70-130			
Potassium	21442.8	2000	"	20000	1515.88	100	70-130			
Sodium	21279.3	1000	"	10000	10928.0	104	70-130			
Boron	543.419	50.0	"	500.00	22.0379	104	70-130			
Lithium	507.932	200	"	500.00	16.8017	98	70-130			
Strontium	993.506	200	"	500.00	484.072	102	70-130			
Tin	546.669	200	"	500.00	11.9207	107	70-130			
Titanium	529.437	200	"	500.00	0.024351	106	70-130			

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Site Name: Dimock Residential Groundwater **Project #:** DAS R33907

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB20803 - Metals Water Prep										
Blank (BB20803-BLK1)				Prepared: 02/08/12 13:49	Analyzed: 02/10/12 10:45					
Antimony	U	2.0	ug/L							
Arsenic	U	1.0	"							
Barium	U	10.0	"							
Beryllium	U	1.0	"							
Cadmium	U	1.0	"							
Chromium	U	2.0	"							
Cobalt	U	1.0	"							
Copper	U	2.0	"							
Lead	U	1.0	"							
Manganese	U	1.0	"							
Nickel	U	1.0	"							
Selenium	U	5.0	"							
Silver	U	1.0	"							
Thallium	U	1.0	"							
Vanadium	U	5.0	"							
Zinc	U	2.0	"							
Aluminum	U	30.0	"							
Uranium	U	1.0	"							
Blank (BB20803-BLK2)				Prepared: 02/08/12 13:49	Analyzed: 02/10/12 10:27					
Calcium	U	500	ug/L							
Iron	U	100	"							
Magnesium	U	500	"							
Potassium	U	2000	"							
Sodium	U	1000	"							
Barium	U	200	"							
Boron	U	50.0	"							
Lithium	U	200	"							
Strontium	U	200	"							
Tin	U	200	"							
Titanium	U	200	"							

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Site Name: Dimock Residential Groundwater **Project #:** DAS R33907

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB20803 - Metals Water Prep										
LCS (BB20803-BS1)				Prepared: 02/08/12 13:49		Analyzed: 02/10/12 10:50				
Antimony	51.1389	2.0	ug/L	50.000		102	85-115			
Arsenic	51.0037	1.0	"	50.000		102	85-115			
Barium	199.406	10.0	"	200.00		100	85-115			
Beryllium	5.40042	1.0	"	5.0000		108	85-115			
Cadmium	4.97670	1.0	"	5.0000		100	85-115			
Chromium	52.3895	2.0	"	50.000		105	85-115			
Cobalt	52.6186	1.0	"	50.000		105	85-115			
Copper	53.1706	2.0	"	50.000		106	85-115			
Lead	51.3742	1.0	"	50.000		103	85-115			
Manganese	52.0108	1.0	"	50.000		104	85-115			
Nickel	52.6216	1.0	"	50.000		105	85-115			
Selenium	49.3927	5.0	"	50.000		99	85-115			
Silver	5.14874	1.0	"	5.0000		103	85-115			
Thallium	49.1340	1.0	"	50.000		98	85-115			
Vanadium	51.4891	5.0	"	50.000		103	85-115			
Zinc	52.5507	2.0	"	50.000		105	85-115			
Aluminum	186.168	30.0	"	200.00		93	85-115			
Uranium	50.2473	1.0	"	50.000		100	85-115			
LCS (BB20803-BS2)				Prepared: 02/08/12 13:49		Analyzed: 02/10/12 10:31				
Calcium	10486.9	500	ug/L	10000		105	85-115			
Iron	5210.61	100	"	5000.0		104	85-115			
Magnesium	10503.1	500	"	10000		105	85-115			
Potassium	20370.7	2000	"	20000		102	85-115			
Sodium	10488.7	1000	"	10000		105	85-115			
Barium	2064.94	200	"	2000.0		103	85-115			
Boron	511.044	50.0	"	500.00		102	85-115			
Lithium	502.882	200	"	500.00		101	85-115			
Strontium	521.582	200	"	500.00		104	85-115			
Tin	536.165	200	"	500.00		107	85-115			
Titanium	526.582	200	"	500.00		105	85-115			

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Site Name: Dimock Residential Groundwater **Project #:** DAS R33907

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB20803 - Metals Water Prep										
Duplicate (BB20803-DUP1)		**Source: 1202003-14**		Prepared: 02/08/12 13:49	Analyzed: 02/10/12 11:17					
Antimony	0.015810	2.0	ug/L		0.013055			19	20	
Arsenic	0.198262	1.0	"		0.546042			93	20	D
Beryllium	U	1.0	"		U				20	
Cadmium	U	1.0	"		U				20	
Chromium	1.40351	2.0	"		1.17078			18	20	
Cobalt	0.042988	1.0	"		0.035830			18	20	
Copper	4.45970	2.0	"		4.34030			3	20	
Lead	U	1.0	"		U				20	
Manganese	1.85991	1.0	"		1.78638			4	20	
Nickel	1.23254	1.0	"		1.20112			3	20	
Selenium	0.752152	5.0	"		0.380995			66	20	D
Silver	U	1.0	"		U				20	
Thallium	U	1.0	"		U				20	
Vanadium	U	5.0	"		U				20	
Zinc	3.26533	2.0	"		3.27722			0.4	20	
Aluminum	2.42168	30.0	"		2.11406			14	20	
Uranium	0.455698	1.0	"		0.458248			0.6	20	
Duplicate (BB20803-DUP2)		**Source: 1202003-14**		Prepared: 02/08/12 13:49	Analyzed: 02/10/12 10:44					
Calcium	32766.2	500	ug/L		32325.1			1	20	
Iron	4.42218	100	"		3.52238			23	20	D
Magnesium	8783.99	500	"		8688.90			1	20	
Potassium	1582.82	2000	"		1579.92			0.2	20	
Sodium	25862.9	1000	"		25461.4			2	20	
Barium	503.735	200	"		500.010			0.7	20	
Boron	65.3989	50.0	"		64.7717			1	20	
Lithium	37.2784	200	"		37.1426			0.4	20	
Strontium	889.593	200	"		873.420			2	20	
Tin	7.99058	200	"		4.77784			50	20	D
Titanium	U	200	"		U				20	

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Site Name: Dimock Residential Groundwater **Project #:** DAS R33907

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB20803 - Metals Water Prep										
Duplicate (BB20803-DUP3)		**Source: 1202003-26**		Prepared: 02/08/12 13:49	Analyzed: 02/10/12 12:27					
Antimony	0.016038	2.0	ug/L		0.089190			139	20	D
Arsenic	0.638785	1.0	"		0.772710			19	20	
Beryllium	U	1.0	"		U				20	
Cadmium	U	1.0	"		U				20	
Chromium	1.80978	2.0	"		1.73795			4	20	
Cobalt	0.043135	1.0	"		0.115692			91	20	D
Copper	0.539838	2.0	"		0.518228			4	20	
Lead	U	1.0	"		U				20	
Manganese	165.672	1.0	"		155.327			6	20	
Nickel	1.31685	1.0	"		1.31874			0.1	20	
Selenium	0.547265	5.0	"		0.712718			26	20	D
Silver	U	1.0	"		U				20	
Thallium	U	1.0	"		0.002620				20	
Vanadium	U	5.0	"		U				20	
Zinc	0.280820	2.0	"		0.241925			15	20	
Aluminum	1.38162	30.0	"		1.52527			10	20	
Uranium	0.319095	1.0	"		0.382555			18	20	
Duplicate (BB20803-DUP4)		**Source: 1202003-26**		Prepared: 02/08/12 13:49	Analyzed: 02/10/12 11:32					
Calcium	32479.9	500	ug/L		32019.1			1	20	
Iron	99.9777	100	"		99.1358			0.8	20	
Magnesium	8751.88	500	"		8643.88			1	20	
Potassium	1565.94	2000	"		1549.04			1	20	
Sodium	26411.4	1000	"		25829.0			2	20	
Barium	523.175	200	"		517.362			1	20	
Boron	62.9270	50.0	"		62.6867			0.4	20	
Lithium	36.8234	200	"		37.1060			0.8	20	
Strontium	889.870	200	"		870.958			2	20	
Tin	3.36276	200	"		14.6429			125	20	D
Titanium	U	200	"		U				20	

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Site Name: Dimock Residential Groundwater **Project #:** DAS R33907

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB20803 - Metals Water Prep										
Matrix Spike (BB20803-MS2)	Source: 1202003-17			Prepared: 02/08/12 13:49		Analyzed: 02/10/12 10:59				
Calcium	43989.1	500	ug/L	10000	33047.2	109	70-130			
Iron	5351.42	100	"	5000.0	157.506	104	70-130			
Magnesium	19412.2	500	"	10000	8880.13	105	70-130			
Potassium	22023.7	2000	"	20000	1595.67	102	70-130			
Sodium	37321.3	1000	"	10000	26739.9	106	70-130			
Barium	2585.93	200	"	2000.0	533.594	103	70-130			
Boron	579.552	50.0	"	500.00	64.5949	103	70-130			
Lithium	539.383	200	"	500.00	37.7413	100	70-130			
Strontium	1426.73	200	"	500.00	902.993	105	70-130			
Tin	529.722	200	"	500.00	8.10195	104	70-130			
Titanium	519.890	200	"	500.00	U	104	70-130			
Matrix Spike (BB20803-MS3)	Source: 1202003-28			Prepared: 02/08/12 13:49		Analyzed: 02/10/12 12:43				
Antimony	51.3803	2.0	ug/L	50.000	0.079852	103	70-130			
Arsenic	50.3544	1.0	"	50.000	U	101	70-130			
Barium	319.746	10.0	"	200.00	120.725	100	70-130			
Beryllium	5.71540	1.0	"	5.0000	U	114	70-130			
Cadmium	4.89914	1.0	"	5.0000	U	98	70-130			
Chromium	52.3680	2.0	"	50.000	1.85751	101	70-130			
Cobalt	50.2456	1.0	"	50.000	0.049775	100	70-130			
Copper	50.4425	2.0	"	50.000	1.29955	98	70-130			
Lead	51.8728	1.0	"	50.000	U	104	70-130			
Manganese	59.0984	1.0	"	50.000	8.47109	101	70-130			
Nickel	50.1176	1.0	"	50.000	1.23351	98	70-130			
Selenium	50.3611	5.0	"	50.000	U	101	70-130			
Silver	4.92980	1.0	"	5.0000	U	99	70-130			
Thallium	46.2348	1.0	"	50.000	U	92	70-130			
Vanadium	49.8908	5.0	"	50.000	U	100	70-130			
Zinc	51.0355	2.0	"	50.000	0.328105	101	70-130			
Aluminum	204.197	30.0	"	200.00	1.48660	101	70-130			
Uranium	54.3481	1.0	"	50.000	3.11946	102	70-130			

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Site Name: Dimock Residential Groundwater **Project #:** DAS R33907

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB20803 - Metals Water Prep										
Matrix Spike (BB20803-MS4)	**Source: 1202003-28**			Prepared: 02/08/12 13:49		Analyzed: 02/10/12 11:44				
Calcium	45072.9	500	ug/L	10000	35567.6	95	70-130			
Iron	5127.31	100	"	5000.0	U	103	70-130			
Magnesium	18078.0	500	"	10000	8030.73	100	70-130			
Potassium	21782.7	2000	"	20000	1766.49	100	70-130			
Sodium	24365.6	1000	"	10000	14408.5	100	70-130			
Boron	570.333	50.0	"	500.00	63.9321	101	70-130			
Lithium	520.036	200	"	500.00	25.4284	99	70-130			
Strontium	1804.15	200	"	500.00	1326.65	95	70-130			
Tin	530.274	200	"	500.00	9.81253	104	70-130			
Titanium	520.486	200	"	500.00	U	104	70-130			
Batch BB20907 - Metals Water Prep										
Blank (BB20907-BLK1)				Prepared: 02/09/12 14:46		Analyzed: 02/13/12 10:10				
Antimony	U	2.0	ug/L							
Arsenic	U	1.0	"							
Barium	U	10.0	"							
Beryllium	U	1.0	"							
Cadmium	U	1.0	"							
Chromium	U	2.0	"							
Cobalt	U	1.0	"							
Copper	U	2.0	"							
Lead	U	1.0	"							
Manganese	U	1.0	"							
Nickel	U	1.0	"							
Selenium	U	5.0	"							
Silver	U	1.0	"							
Thallium	U	1.0	"							
Vanadium	U	5.0	"							
Zinc	U	2.0	"							
Aluminum	U	30.0	"							
Uranium	U	1.0	"							

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Site Name: Dimock Residential Groundwater **Project #:** DAS R33907

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB20907 - Metals Water Prep										
Blank (BB20907-BLK2)				Prepared: 02/09/12 14:46		Analyzed: 02/13/12 10:18				
Calcium	U	500	ug/L							
Iron	U	100	"							
Magnesium	U	500	"							
Potassium	U	2000	"							
Sodium	U	1000	"							
Boron	U	50.0	"							
Lithium	U	200	"							
Strontium	U	200	"							
Tin	U	200	"							
Titanium	U	200	"							
LCS (BB20907-BS1)				Prepared: 02/09/12 14:46		Analyzed: 02/13/12 10:15				
Antimony	54.3728	2.0	ug/L	50.000		109	85-115			
Arsenic	55.2084	1.0	"	50.000		110	85-115			
Barium	213.382	10.0	"	200.00		107	85-115			
Beryllium	5.68690	1.0	"	5.0000		114	85-115			
Cadmium	5.40638	1.0	"	5.0000		108	85-115			
Chromium	53.2956	2.0	"	50.000		107	85-115			
Cobalt	55.5706	1.0	"	50.000		111	85-115			
Copper	55.8614	2.0	"	50.000		112	85-115			
Lead	53.3534	1.0	"	50.000		107	85-115			
Manganese	54.8453	1.0	"	50.000		110	85-115			
Nickel	55.1811	1.0	"	50.000		110	85-115			
Selenium	57.6333	5.0	"	50.000		115	85-115			
Silver	5.56042	1.0	"	5.0000		111	85-115			
Thallium	49.3742	1.0	"	50.000		99	85-115			
Vanadium	51.2566	5.0	"	50.000		103	85-115			
Zinc	58.3831	2.0	"	50.000		117	85-115			A
Aluminum	201.221	30.0	"	200.00		101	85-115			
Uranium	52.1730	1.0	"	50.000		104	85-115			

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Site Name: Dimock Residential Groundwater **Project #:** DAS R33907

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB20907 - Metals Water Prep										
LCS (BB20907-BS2)				Prepared: 02/09/12 14:46		Analyzed: 02/13/12 10:22				
Calcium	10274.9	500	ug/L	10000		103	85-115			
Iron	5155.73	100	"	5000.0		103	85-115			
Magnesium	10334.9	500	"	10000		103	85-115			
Potassium	20258.3	2000	"	20000		101	85-115			
Sodium	10417.5	1000	"	10000		104	85-115			
Barium	2059.93	200	"	2000.0		103	85-115			
Boron	523.530	50.0	"	500.00		105	85-115			
Lithium	500.926	200	"	500.00		100	85-115			
Strontium	512.615	200	"	500.00		103	85-115			
Tin	533.930	200	"	500.00		107	85-115			
Titanium	526.684	200	"	500.00		105	85-115			
Duplicate (BB20907-DUP1)		**Source: 1202003-35**		Prepared: 02/09/12 14:46		Analyzed: 02/13/12 10:42				
Antimony	0.013808	2.0	ug/L		0.010835			24	20	D
Arsenic	93.3264	1.0	"		90.7009			3	20	
Beryllium	0.003428	1.0	"		0.008845			88	20	D
Cadmium	U	1.0	"		U				20	
Chromium	U	2.0	"		U				20	
Cobalt	0.075242	1.0	"		0.058120			26	20	D
Copper	11.6616	2.0	"		10.0810			15	20	
Lead	0.185025	1.0	"		0.163458			12	20	
Manganese	1245.91	1.0	"		1183.69			5	20	
Nickel	1.05499	1.0	"		0.966648			9	20	
Selenium	U	5.0	"		0.052745				20	
Silver	0.000555	1.0	"		0.001860			108	20	D
Thallium	U	1.0	"		U				20	
Vanadium	0.001228	5.0	"		0.489412			199	20	D
Zinc	0.895332	2.0	"		0.781635			14	20	
Aluminum	7.29692	30.0	"		7.39326			1	20	
Uranium	0.200418	1.0	"		0.194248			3	20	

DRAFT

Site Name: Dimock Residential Groundwater **Project #:** DAS R33907

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB20907 - Metals Water Prep										
Duplicate (BB20907-DUP2)	**Source: 1202003-35**			Prepared: 02/09/12 14:46	Analyzed: 02/13/12 10:42					
Calcium	23864.1	500	ug/L		23678.9			0.8	20	
Iron	4606.69	100	"		4546.16			1	20	
Magnesium	3984.33	500	"		3951.09			0.8	20	
Potassium	1876.28	2000	"		1854.99			1	20	
Sodium	54023.2	1000	"		53615.4			0.8	20	
Barium	492.648	200	"		484.756			2	20	
Boron	123.003	50.0	"		120.072			2	20	
Lithium	117.808	200	"		115.648			2	20	
Strontium	762.757	200	"		756.571			0.8	20	
Tin	18.9349	200	"		17.4858			8	20	
Titanium	0.079278	200	"		0.244347			102	20	D
Duplicate (BB20907-DUP3)	**Source: 1202003-41**			Prepared: 02/09/12 14:46	Analyzed: 02/13/12 11:35					
Antimony	0.018605	2.0	ug/L		0.017560			6	20	
Arsenic	U	1.0	"		0.566305				20	
Barium	116.682	10.0	"		118.763			2	20	
Beryllium	U	1.0	"		U				20	
Cadmium	U	1.0	"		U				20	
Chromium	0.917358	2.0	"		0.957018			4	20	
Cobalt	0.021825	1.0	"		0.028132			25	20	D
Copper	19.2074	2.0	"		19.7643			3	20	
Lead	0.501870	1.0	"		0.507995			1	20	
Manganese	0.190412	1.0	"		0.191878			0.8	20	
Nickel	0.680648	1.0	"		0.669450			2	20	
Selenium	U	5.0	"		U				20	
Silver	U	1.0	"		0.001178				20	
Thallium	U	1.0	"		U				20	
Vanadium	U	5.0	"		0.478842				20	
Zinc	3.89998	2.0	"		3.88290			0.4	20	
Aluminum	0.934868	30.0	"		0.873828			7	20	
Uranium	0.031180	1.0	"		0.031672			2	20	

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Site Name: Dimock Residential Groundwater **Project #:** DAS R33907

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB20907 - Metals Water Prep										
Duplicate (BB20907-DUP4)		**Source: 1202003-41**		Prepared: 02/09/12 14:46		Analyzed: 02/13/12 11:22				
Calcium	15524.2	500	ug/L		15760.2			2	20	
Iron	U	100	"		U				20	
Magnesium	3181.09	500	"		3226.53			1	20	
Potassium	782.543	2000	"		802.847			3	20	
Sodium	5566.42	1000	"		5600.09			0.6	20	
Boron	20.0864	50.0	"		22.0338			9	20	
Lithium	4.49994	200	"		4.76194			6	20	
Strontium	83.9290	200	"		83.7668			0.2	20	
Tin	11.1588	200	"		13.6952			20	20	
Titanium	U	200	"		0.028441				20	
Matrix Spike (BB20907-MS1)		**Source: 1202003-36**		Prepared: 02/09/12 14:46		Analyzed: 02/13/12 10:53				
Antimony	52.8235	2.0	ug/L	50.000	0.036655	106	70-130			
Arsenic	54.2540	1.0	"	50.000	0.700928	107	70-130			
Barium	274.003	10.0	"	200.00	69.1403	102	70-130			
Beryllium	5.84646	1.0	"	5.0000	U	117	70-130			
Cadmium	5.18006	1.0	"	5.0000	U	104	70-130			
Chromium	52.7520	2.0	"	50.000	0.157580	105	70-130			
Cobalt	51.8632	1.0	"	50.000	0.166718	103	70-130			
Copper	85.2140	2.0	"	50.000	34.4314	102	70-130			
Lead	52.5421	1.0	"	50.000	1.19741	103	70-130			
Manganese	92.9140	1.0	"	50.000	39.8916	106	70-130			
Nickel	52.2168	1.0	"	50.000	1.38012	102	70-130			
Selenium	55.8305	5.0	"	50.000	0.003475	112	70-130			
Silver	5.17105	1.0	"	5.0000	0.008988	103	70-130			
Thallium	47.4728	1.0	"	50.000	U	95	70-130			
Vanadium	51.4168	5.0	"	50.000	U	103	70-130			
Zinc	58.0766	2.0	"	50.000	2.67230	111	70-130			
Aluminum	246.428	30.0	"	200.00	46.5405	100	70-130			
Uranium	52.1755	1.0	"	50.000	1.02535	102	70-130			

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Site Name: Dimock Residential Groundwater **Project #:** DAS R33907

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB20907 - Metals Water Prep										
Matrix Spike (BB20907-MS2)	**Source: 1202003-36**			Prepared: 02/09/12 14:46		Analyzed: 02/13/12 10:51				
Calcium	38174.4	500	ug/L	10000	27981.3	102	70-130			
Iron	5240.73	100	"	5000.0	69.7697	103	70-130			
Magnesium	16974.3	500	"	10000	6775.77	102	70-130			
Potassium	21455.8	2000	"	20000	1035.54	102	70-130			
Sodium	15583.9	1000	"	10000	5230.17	104	70-130			
Boron	529.205	50.0	"	500.00	16.9880	102	70-130			
Lithium	511.340	200	"	500.00	8.15331	101	70-130			
Strontium	720.774	200	"	500.00	212.003	102	70-130			
Tin	537.162	200	"	500.00	10.9484	105	70-130			
Titanium	529.742	200	"	500.00	0.320805	106	70-130			
Matrix Spike (BB20907-MS3)	**Source: 1202003-43**			Prepared: 02/09/12 14:46		Analyzed: 02/13/12 11:51				
Antimony	52.0413	2.0	ug/L	50.000	0.029618	104	70-130			
Arsenic	51.9071	1.0	"	50.000	0.036240	104	70-130			
Barium	312.394	10.0	"	200.00	115.668	98	70-130			
Beryllium	5.59174	1.0	"	5.0000	U	112	70-130			
Cadmium	4.90953	1.0	"	5.0000	0.041618	97	70-130			
Chromium	51.2712	2.0	"	50.000	1.56360	99	70-130			
Cobalt	50.8125	1.0	"	50.000	0.067332	101	70-130			
Copper	136.808	2.0	"	50.000	89.2896	95	70-130			
Lead	49.6862	1.0	"	50.000	0.351200	99	70-130			
Manganese	52.7611	1.0	"	50.000	0.357775	105	70-130			
Nickel	50.4110	1.0	"	50.000	1.73040	97	70-130			
Selenium	53.0902	5.0	"	50.000	U	106	70-130			
Silver	5.10901	1.0	"	5.0000	0.000808	102	70-130			
Thallium	44.3416	1.0	"	50.000	U	89	70-130			
Vanadium	49.1846	5.0	"	50.000	U	98	70-130			
Zinc	65.2012	2.0	"	50.000	8.57310	113	70-130			
Aluminum	192.252	30.0	"	200.00	1.82906	95	70-130			
Uranium	49.5374	1.0	"	50.000	0.029118	99	70-130			

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Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
	Total Metals by 200.7	(Water)	Special Units: (ug/L)
1202003-13	Total Metals by 200.8		Status is Analyzed
1202003-14	Total Metals by 200.8		Status is Analyzed
1202003-15	Total Metals by 200.8		Status is Analyzed
1202003-16	Total Metals by 200.8		Status is Analyzed
1202003-17	Total Metals by 200.8		Status is Analyzed
1202003-18	Total Metals by 200.8		Status is Analyzed
1202003-19	Total Metals by 200.8		Status is Analyzed
1202003-20	Total Metals by 200.8		Status is Analyzed
1202003-24	Total Metals by 200.8		Status is Analyzed
1202003-25	Total Metals by 200.8		Status is Analyzed
1202003-26	Total Metals by 200.8		Status is Analyzed
1202003-27	Total Metals by 200.8		Status is Analyzed
1202003-28	Total Metals by 200.8		Status is Analyzed
1202003-29	Total Metals by 200.8		Status is Analyzed
1202003-30	Total Metals by 200.8		Status is Analyzed
1202003-31	Total Metals by 200.8		Status is Analyzed
BB20707-DUP1	Total Metals by 200.8	Arsenic	Exceeds RPD control limit
BB20707-DUP1	Total Metals by 200.8	Cadmium	Exceeds RPD control limit
BB20707-DUP1	Total Metals by 200.8	Chromium	Exceeds RPD control limit
BB20707-DUP1	Total Metals by 200.8	Silver	Exceeds RPD control limit
BB20707-DUP1	Total Metals by 200.8	Thallium	Exceeds RPD control limit
BB20707-DUP1	Total Metals by 200.8	Vanadium	Exceeds RPD control limit
BB20707-DUP1	Total Metals by 200.8	Zinc	Exceeds RPD control limit
BB20707-DUP2	Total Metals by 200.7	Iron	Exceeds RPD control limit
BB20707-DUP2	Total Metals by 200.7	Tin	Exceeds RPD control limit
BB20803-DUP1	Total Metals by 200.8	Arsenic	Exceeds RPD control limit
BB20803-DUP1	Total Metals by 200.8	Selenium	Exceeds RPD control limit
BB20803-DUP2	Total Metals by 200.7	Iron	Exceeds RPD control limit
BB20803-DUP2	Total Metals by 200.7	Tin	Exceeds RPD control limit
BB20803-DUP3	Total Metals by 200.8	Antimony	Exceeds RPD control limit
BB20803-DUP3	Total Metals by 200.8	Cobalt	Exceeds RPD control limit
BB20803-DUP3	Total Metals by 200.8	Selenium	Exceeds RPD control limit
BB20803-DUP4	Total Metals by 200.7	Tin	Exceeds RPD control limit
BB20907-BS1	Total Metals by 200.8	Zinc	Exceeds upper control limit
BB20907-DUP1	Total Metals by 200.8	Antimony	Exceeds RPD control limit
BB20907-DUP1	Total Metals by 200.8	Beryllium	Exceeds RPD control limit
BB20907-DUP1	Total Metals by 200.8	Cobalt	Exceeds RPD control limit
BB20907-DUP1	Total Metals by 200.8	Silver	Exceeds RPD control limit
BB20907-DUP1	Total Metals by 200.8	Vanadium	Exceeds RPD control limit
BB20907-DUP2	Total Metals by 200.7	Titanium	Exceeds RPD control limit
BB20907-DUP3	Total Metals by 200.8	Cobalt	Exceeds RPD control limit

DIM0216291 DIM0216353

1202003-01 >10 29

ICP-MS METALS Technical Review Checklist

(200.8, 6020)

For Internal Use Only

Site Name: Dimock WO#: 1202001 + 1202003

Analyst: RLOSMR Date given to Reviewer: 2/14/12

Matrix (circle): Solid / Aqueous / Other _____ SOP R3QA116-021511 / R3QA155-021511

Program (circle): Superfund / RCRA / WPD (NPDES) / SDWA / Other: _____

23, 37-51 1-10

The signature below indicates the following:

- This data meets the needs of the customer according to the request.
- The analysis was performed as per the SOP, or exceptions documented.
- All documentation needed to recreate the analyses has been reviewed.
- Data Review status set to Peer Reviewed in Element.

Peer Reviewer signature [signature] Date accepted 2/14/12

If any data for this case is stored with another case file, give Site Name and WO# DIMOCK 1202001

Peer Reviewer Completes Section Below:

	YES	NO	N/A	Comments
General: Raw data is identified with sample ID's, site name, WO#, analyst name, date of analysis.	✓			
Quality Control:				
Initial calibration ≥.995	✓			
Meas. PK Width .6 to .7 amu	✓			
Exact Mass & Meas. Mass within 1 amu	✓			
Internal Stds 60-125%	✓			
SCV ±10%;	✓			
CCV ±10% , 10% frequency, and end of run; (If CCV fails at <±15%, can keep the data but have to recalibrate before continuing, or qualify data.)	✓			
LCV ±50% ;	✓			
IBL < |Reporting limit|, analyzed with each CCV;	✓			
BS (LCS) ±15%	✓			
SRM within vendor acceptance limits;			✓	
BLK < |Reporting limit|; (if >Reporting Limit **and** >1/10 of sample - must qualify)	✓			
MS [∓30%] unless spike is <30% of sample value;	✓			
RPDs from DUP ≤ 20% aqueous & 35% soils;	✓			

Sample results < CAL or within documented linear range;	✓			
Calculations/Report:				
Calculations and transcriptions checked.	✓			
Element Draft Report reviewed.	✓			
Deviations and problems documented.	✓			

NOTE: When soils are being reported, the *sample qualifier* 'dry' or 'wet' must be entered so that it appears in the header of the Element report. This will signify that the data was report 'wet weight' or 'dry weight' as appropriate.

Additional Comments by Peer Reviewer:

Analyst Ensures that the Data Case File is Complete and Accurate:

- ✓ Bench sheet
- ✓ Calibration report
- ✓ Instrument run log
- ✓ Standard/Reagent Prep log
- ✓ Daily Performance Report
- ✓ TV sheets
- ✓ Element Peer Review report
- ✓ Raw data
- ✓ Data status set to analyzed
- ✓ Tune Report

Additional Comments by Analyst on data issues:

use BS for U sCV

DIM0216291 DIM0216356

DRAFT

Site Name: Dimock Residential Groundwater **Project #:** DAS R33907

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB20907 - Metals Water Prep										
Matrix Spike (BB20907-MS4)	**Source: 1202003-43**			Prepared: 02/09/12 14:46		Analyzed: 02/13/12 11:35				
Calcium	25794.0	500	ug/L	10000	15770.2	100	70-130			
Iron	5136.55	100	"	5000.0	U	103	70-130			
Magnesium	13389.8	500	"	10000	3229.77	102	70-130			
Potassium	20919.5	2000	"	20000	965.906	100	70-130			
Sodium	15823.3	1000	"	10000	5647.31	102	70-130			
Boron	529.426	50.0	"	500.00	19.6002	102	70-130			
Lithium	501.469	200	"	500.00	4.53838	99	70-130			
Strontium	594.324	200	"	500.00	82.7239	102	70-130			
Tin	533.751	200	"	500.00	13.9779	104	70-130			
Titanium	525.580	200	"	500.00	0.008864	105	70-130			

DRAFT

Site Name: Dimock Residential Groundwater **Project #: DAS R33907**

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
D	Source sample result and/or duplicate sample result are below the quantitation limit and the RPD is artificially high. Precision data (RPD value) has no significance for this QC Sample.
A	Quality control value is outside acceptance limits.
%REC	Percent Recovery
RPD	Relative Percent Difference
U	Analyte included in the analysis, but not detected at or above the quantitation limit.

Quantitation Limit: The lowest concentration of an analyte that can be reliably measured within specified limits of precision and accuracy for a specific laboratory analytical method and that takes into account analytical adjustments made during sample preparation and analysis.

REPORTING PROTOCOL FOR SOLID SAMPLE RESULTS: Percent Solids (percent dry wt at 105 degrees C) determinations are routinely performed for most organic and inorganic analyses. Consequently, these samples are analyzed wet and converted to a dry weight result for reporting purposes. If metals and mercury analyses are requested, they are routinely prepared for analyses by an initial drying at 60 degrees C, homogenized prior to digestion, and are analyzed and reported on a dry weight basis. Oil-type samples are analyzed and reported on a wet weight basis for all analyses because of the nature of the sample matrix. Any exceptions to this protocol will be noted in the narrative.

On-Demand Data Checklist
(used in addition to routine TRC)
For Internal Use Only

Parameter: U
Procedure/Method/Reference: 200.8

Site Name: Dimock WO#: 1202001 + 1202013
Analyst: Closure

The signature below indicates the following:
• The analysis was performed as per the On-Demand requirements below.

Peer Reviewer signature [signature] Date accepted 2/14/12

Peer Reviewer Completes Section Below:

Quality Control:	**YES**	**NO**	**N/A**	**Comments**
The case file must explain why this is a non-routine request **This is a special request which falls outside our routine protocols. Therefore, these samples were analyzed and the quality control (QC) were evaluated based on the "On Demand" criteria. These protocols include all the QC checks as per routine analyses plus special verification of the performance of the analytical method at the reported quantitation limit/s. These protocols are specified in the EPA Region III OASQA Laboratory Quality Manual, current version.**	✓			
A written procedure or reference must be available for the method being performed and referenced in the narrative. If the method to be performed is unique, the procedures must be fully documented.	✓			
Calibration of the instrumentation or analytical procedure must be according to the method or procedure.	✓			
Calibration verified by analysis of second source standard (SCV,SRM), if available. Concentration must be in the range of the calibration. Results must be within the method, procedure, client or in-house limits.	✓			
Analysis of one method blank (BLK) with each batch. Ideally, the results should be less than the expected quantitation levels set by the method, procedure, or in-house requirements.	✓			
Analysis of one matrix spike (MS) with each batch. For samples or parameters which do not lend themselves to matrix spiking, a BS or SRM sample must be analyzed. Results of spikes must be within the method, procedure, client or in-house limits.	✓			
Analysis of one duplicate analyses (DUP) or a quality control sample such as an SRM or BS with each batch. If duplicate analyses is not possible, e.g.,				

insufficient sample quantity, a quality control sample must be analyzed in duplicate, if available. Results of duplicate analyses must be within the method, procedure, client or in-house limits. ✓

At least one blank spike (BS) must be carried through the entire method and analyzed with each batch. The concentration of the BS should be at the quantitation level or at the level of the expected sample results, if known. Results of the BS must be within the method, procedure, client or in-house limits. ✓

Any additional quality control items, such as surrogates, internal standards, etc., which the referenced method or procedure requires should be analyzed. Results must be within the method or, procedure limits. ✓

The analyst must document the impact on the usability of the reported data by applying qualifier codes if applicable and including a summary in the case file. ✓

Additional Comments:

DIM0216291 DIM0216360

ICP-MS ELAN 6100 RUN LOG

Computer Name: D0303SLABF103A
Dataset File Path: C:\Elandata\Dataset\EL120209\
Optimization File: C:\Elandata\Optimize\epa.dac
Tuning File: C:\Elandata\Tuning\epa.tun
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Report Date/Time: Thursday, February 09, 2012 13:20:45
Batch ID: WO# 1202001 AND 1202003
Analyst: R.COSTAS
Site: DIMOCK
Inst Run: EL120209

R Costas 2.9.12

Matrix HNO3/HCl. Samples diluted 2.5X unless otherwise noted below. __X___

Matrix 1% nitric. No dilution unless indicated below. _____

The Dataset

Batch ID	Description	Sample ID	Date and Time	Samp. File Name	Read Type
		Blank	08:29:39 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\Blank.001	Blank
		Blank	08:35:17 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\Blank.002	Blank
		Standard 1	08:40:28 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\Standard 1.003	Standard #
		Standard 2	08:45:41 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\Standard 2.004	Standard #
		Standard 3	08:50:55 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\Standard 3.005	Standard #
		QC Std 2	08:56:19 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\QC Std 2.006	QC Std #2
		QC Std 4	09:01:32 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\QC Std 4.007	QC Std #4
		QC Std 5	09:06:45 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\QC Std 5.008	QC Std #5
		QC Std 6	09:11:58 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\QC Std 6.009	QC Std #6
		QC Std 7	09:16:55 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\QC Std 7.010	QC Std #7
		BB20706-BLK1	09:24:20 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\BB20706-BLK1.011	Sample
		BB20706-BS1	09:29:40 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\BB20706-BS1.012	Sample
		1202001-23	09:35:01 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202001-23.013	Sample
		BB20706-DUP1	09:40:22 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\BB20706-DUP1.014	Sample
		1202001-37	09:45:44 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202001-37.015	Sample
		1202001-38	09:51:06 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202001-38.016	Sample
		1202001-39	09:56:28 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202001-39.017	Sample
		BB20706-MS1	10:01:47 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\BB20706-MS1.018	Sample
		1202001-40	10:07:03 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202001-40.019	Sample
		1202001-41	10:12:19 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202001-41.020	Sample
		QC Std 2	10:17:32 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\QC Std 2.021	QC Std #2
		QC Std 4	10:22:44 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\QC Std 4.022	QC Std #4
		1202001-42	10:28:01 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202001-42.023	Sample
		BB20706-DUP3	10:33:18 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\BB20706-DUP3.024	Sample
		1202001-43	10:38:35 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202001-43.025	Sample
		1202001-44	10:43:54 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202001-44.026	Sample
		BB20706-MS3	10:49:12 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\BB20706-MS3.027	Sample
		1202001-45	10:54:31 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202001-45.028	Sample
		1202001-46	10:59:51 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202001-46.029	Sample
		1202001-51	11:05:10 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202001-51.030	Sample
		BB20707-BLK1	11:10:31 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\BB20707-BLK1.031	Sample
		BB20707-BS1	11:15:52 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\BB20707-BS1.032	Sample
		QC Std 2	11:21:07 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\QC Std 2.033	QC Std #2
		QC Std 4	11:26:19 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\QC Std 4.034	QC Std #4
		1202003-01	11:31:38 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202003-01.035	Sample
		BB20707-DUP1	11:37:00 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\BB20707-DUP1.036	Sample
		1202003-02	11:42:22 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202003-02.037	Sample

1202003-03	11:47:41 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202003-03.038	Sample
1202003-04	11:52:56 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202003-04.039	Sample
BB20707-MS1	11:58:12 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\BB20707-MS1.040	Sample
1202003-05	12:03:29 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202003-05.041	Sample
1202003-06	12:08:45 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202003-06.042	Sample
1202003-07	12:14:03 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202003-07.043	Sample
1202003-08	12:19:21 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202003-08.044	Sample
QC Std 2	12:24:34 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\QC Std 2.045	QC Std #2
QC Std 4	12:29:46 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\QC Std 4.046	QC Std #4
1202003-09	12:35:04 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202003-09.047	Sample
1202003-10	12:40:23 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\1202003-10.048	Sample
QC Std 2	12:45:36 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\QC Std 2.049	QC Std #2
QC Std 4	12:50:49 Thu 09-Feb-12	C:\Elandata\Dataset\EL120209\QC Std 4.050	QC Std #4

EPA - OASQA - ICP-MS Standard/Reagent Preparation

Perkin Elmer ELAN 6100

Analyst: V Costrz Date: 2-9-12 Pipets Logbook # 11

Run Filename EL120209 (all electronic files saved using Run Filename) SOP #: R3-QA116

SITE/WO#: Dimock 1202001 & 1202003 Reagent purity checked ✓

* See Certificates of Analysis for analytes and concentrations.
** Matrix of IBL and calibration standards: 0.8% nitric/0.4% HCl (0.8 mL/ 0.4mL to 100 mL final vol) ✓
IBL made daily. OR 1% nitric (1mL to 100mL final vol)

****SCV (made daily): Single solution made with both stocks and diluted to volume with IBL.**

*Stock Solution	Expiration Date	Stock Conc	Vendor	Bar Code	Stock Volume	Final Volume	Final Conc
QC-7A	1-2013	100 mg/L 50 mg/L Ag 1000 mg/L K	Spex	13853	50 µl	50 ml	see TV sheet
QC-21	1-2013	100 mg/L	Spex	13852	50 µl	50 ml	see TV sheet

Internal Standards Mixed Solution (made daily). **Matrix = 1% nitric (2 mL conc. nitric to 200 mL final volume)**

Stock Solution	Stock Conc	Vendor	Bar Code	Stock Volume	Final Conc
Germanium	10 mg/L	Claritas	12704	4 mL	0.200 mg/L
* IS Multi-Mix	10 mg/L	Claritas	6403	0.8 mL	0.04 mg/L
Scandium	10 mg/L	Claritas	12703	2.0 mL	0.08 mg/L
Lithium 6	100 mg/L	Claritas	11126	2 mL	1.0 mg/L

MIN Mixed Stock Solution **Date made:** 2-2011
Matrix = 1% nitric (1 mL conc. nitric to 100 mL final volume) **Prepared by:** RC

Stock Solution	Stock Conc	Vendor	Bar Code	Stock Volume	Final Conc
Iron	10000 mg/L	High Purity	11886	10 mL	1000 mg/L
Calcium	10000 mg/L	High Purity	10171	10 mL	1000 mg/L
Magnesium	10000 mg/L	High Purity	10172	10 mL	1000 mg/L
Potassium	10000 mg/L	High Purity	11885	10 mL	1000 mg/L
Sodium	10000 mg/L	High Purity	11808	10 mL	1000 mg/L

CAL4 Mixed Stock Solution **Date made:** 5-2011
Matrix = 2% nitric 2%HCl (2 mL conc. to 100 mL final volume) **Prepared by:** RC
1ml of 10mg/L stock to 100mL for 100 µg/L

Stock Solution	Stock Conc	Vendor	Bar Code	Stock Volume	Final Conc
Bromide	1000 ppm	High Purity	10048	1 mL	10 mg/L
Boron	5000 ppm	High Purity	5508	0.2 mL	10 mg/L
Strontium	1000 ppm	High Purity	11882	1.0 mL	10 mg/L
Tin	10,000 ppm	High Purity	5616	0.1 ml	10 mg/L

**** CAL3 Mixed Stock Solution of 500 mL final volume** **Date made:** **Prepared by:** RC 1-12

*Stock Solution	Stock Conc	Vendor	Bar Code	Stock Volume	Final Conc
2008 CAL-1	20 mg/L	Spex	13851	2.5 mL	100 µg/L
MIN	1000 mg/L	see above	see above	5 mL	10 mg/L
CAL-4	10 mg/L	see above	see above	5 ml (1ml of 10mg/l stock to 100mL to run as separate CAL-4 standard	100 µg/L run as separate standard: ☐

EPA - OASQA - ICP-MS Standard/Reagent Preparation

Perkin Elmer ELAN 6100

** Calibration Standards (made daily)			
Solution ID	**Prepared by diluting:**	**with IBL**	**CAL Final Conc. (CAL / MIN) (see true value sheet)**
CAL 1	CAL 2	5X	10 µg/L / 1 mg/L
CAL 2 / CCV	CAL 3	2X	50 µg/L / 5 mg/L
CAL 3	-	na	100 µg/L / 10 mg/L

LCV Standard Preparation (**made daily**) Matrix will be same as IBL.			
LCV Standard Preparation (**made daily**) Matrix will be same as IBL.			
Concentration (CAL / MIN) (see true value sheet)	**Prepared by diluting:**	**to Final volume with IBL**	**Used? √**
LCV (0.4 µg/L / 0.04 mg/L)	0.4 mL of CAL 1	10 mL	✓
LCV (0.8 µg/L / 0.08 mg/L)	0.8 mL of CAL 1	10 mL	✓
LCV (1.0 µg/L)	2x of LCV (2.0 µg/L)		
LCV (2.0 µg/L / 0.2 mg/L)	0.4 mL of CAL 2	10 mL	
LCV (4.0 µg/L / 0.4 mg/L)	0.4 mL of CAL 3	10 mL	

Reagent Acid Stocks					
	Vendor	**Bar Code**		**Vendor**	**Bar Code**
Nitric Acid	**Fisher**	**11152**	**HCl Acid**	**Fisher**	**11148**

Other solutions									
Solution	**Stock Solution**	**Stock Conc**	**Vendor**	**Bar Code**	**Stock Volume**	**Final Volume**	**Final Conc**	**Date/ Initials**	**Acid Conc**

* See Certificate of Analysis for analytes.

Certificates of Analysis Logbook #_____2_____

Comments:_____

OASQA TRUE VALUES for ICP-MS Standards and QC

ICP-MS OASQA QL (ppb) ILM5.4/ISM1.2	ICPMS OASQA QL(ppb) SDWA		QCStd 2 CCV +10% ppb	QCStd 5 SCV +10% ppb	SDWA Primary MCL ppb	LCV +50% ppb (2.5x diluted value) Lowest possible values are listed	BS = MS +15% / +30% ppb (2.5x diluted value)
1.0		Ag	50	50		0.4	2/5
20		Al	50	100		0.4	80/200
1.0	2.0	As	50	100	10	0.4	20/50
		B	50 CAL4	100		0.4	20/50
10	100	Ba	50	100	2000	0.4	80/200
1.0	1.0	Be	50	100	4	0.4	2/5
		Br	50 CAL4	*		10	*
1.0	1.0	Cd	50	100	5	0.4	2/5
1.0		Co	50	100		0.4	20/50
2.0	5.0	Cr	50	100	100	0.4	20/50
2.0	5.0	Cu	50	100	50 = POL	0.4	20/50
1.0		Mn	50	100		0.4	20/50
		Mo	50	100		0.4	20/50
1.0		Ni	50	100		0.4	20/50
		Li	*	100		*	*
1.0	2.0	Pb	50	100	5 = POL	0.4	20/50
2.0	5.0	Sb	50	100	6	0.4	20/50
5.0	5.0	Se	50	100	50	0.4	20/50
		Sn	50 CAL4	*		10	20/50
		Sr	50 CAL4	100		0.4	20/50
1.0	2.0	Tl	50	100	2	0.4	20/50
		U	50	*		0.4	20/50
5.0		V	50	100		0.4	20/50
2.0		Zn	50	100		0.4	20/50
if requested			ppm	ppm	ppm	ppm	ppm
2000	1000	Na	5.00 MIN	0.1	no MCL	0.4	0.4/1.0
2000		Mg	5.00 MIN	0.1		0.4	0.4/1.0
2000		K	5.00 MIN	1.0		0.4	0.8/2.0
2000		Ca	5.00 MIN	0.1		0.4	0.4/1.0
100		Fe	5.00 MIN	0.1		0.4	0.2/0.5

*added separately to solution

Making CAL Standards

QC Std 1 (CAL1) = 10ppb/1ppm (5x of 50ppb)
QC Std 2 (CAL2/CCV) = 50ppb/5ppm (2x of 100ppb)
QC Std 3 (CAL3) = 100ppb/10ppm
QC Std 4 = Blank = ± LCV

LCV (diluted value)	x 2.5
0.4 ppb (0.4 ppm)= 0.4ml of 10 ppb (CAL1) to 10ml	1.0 (0.10)
0.8 ppb (0.8 ppm) =0.8ml of 10 ppb (CAL1) to 10ml	2.0 (0.20)
1.0 ppb (0.1 ppm) = 2x dilutionof 2.0 ppb	2.5 (0.25)
2.0 ppb (0.2 ppm) =0.4ml of 50 ppb (CAL2) to 10ml	5.0 (0.50)

DIM0216291 DIM0216365

QC Std 1	CAL
QC Std 2	CAL/CCV
QC Std 3	CAL
QC Std 4	IBL
QC Std 5	SCV
QC Std 6	LCV (tv=0.4ppb)
QC Std 7	LCV (tv=0.8ppb)
QC Std 8	LCV (tv=1.0ppb)
QC Std 9	LCV (tv=2.0ppb)
QC Std 10	BLK
QC Std 11	BS (digested)
QC Std 12	BS (undigested)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: BB20707-BS1

Sample Description:
Autosampler Position: 36
Sample Date/Time: Thursday, February 09, 2012 11:15:52
Dataset File: C:\Elandata\Dataset\EL120209\BB20707-BS1.032
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	733.709	2.667	2.038	ug/L	6.208
|>	Li u	6	380487.865	393432.269		ug/L	
L	Li	6	376224.964	391219.680		ug/L	
⌈	Be	9	733.709	2.667	2.196	ug/L	6.900
|	B	11	9443.221	102.002	21.505	ug/L	3.204
|	Al	27	383551.153	1604.517	80.261	ug/L	4.057
|>	Sc	45	362631.397	394877.015		ug/L	
|	V r	51	154302.797	-675.869	20.853	ug/L	4.076
|	V u	51	277748.984	102913.850	24.430	ug/L	4.862
|	Cr r	52	141843.683	10226.564	21.355	ug/L	4.952
|	Cr	53	57287.138	35789.841	34.116	ug/L	7.578
|	Mn	55	212505.344	451.684	21.326	ug/L	4.569
|	Co	59	149957.734	53.667	21.710	ug/L	4.915
|	Ni r	60	30350.764	53.667	21.316	ug/L	4.427
|	Ni	62	4523.375	93.001	21.745	ug/L	4.432
|	Cu r	63	63670.460	196.671	21.876	ug/L	3.528
L	Cu	65	29670.430	106.668	21.902	ug/L	3.815
⌈	Zn r	66	17945.430	202.338	21.617	ug/L	3.921
|	Zn	67	6274.622	1698.540	31.205	ug/L	5.566
|	Zn	68	14180.539	310.676	23.196	ug/L	3.651
|>	Ge	72	102028.943	113753.819		ug/L	
|	As r	75	21869.309	-197.552	21.036	ug/L	2.712
|	As u	75	29215.688	7220.131	23.038	ug/L	4.658
|	Se r	82	2415.746	13.531	20.752	ug/L	4.043
|	Se	77	4366.803	2370.118	28.051	ug/L	9.574
L	Sr	88	265317.178	147.670	20.896	ug/L	3.549
⌈	Ag r	107	11413.921	31.667	2.173	ug/L	5.924
|	Ag	109	10778.662	22.334	2.145	ug/L	5.550
|	Cd r	111	2908.162	159.175	2.138	ug/L	6.521
|	Cd	106	-1894.444	-2501.520	2.761	ug/L	14.944
|	Cd	108	-2002.569	-2616.420	3.559	ug/L	15.829
|	Cd	114	6389.888	10.979	2.147	ug/L	5.145
|	Cd u	111	2847.556	6.333	2.184	ug/L	5.818
|>	In	115	186816.786	211170.792		ug/L	
|	Sb r	123	69896.642	48.407	21.150	ug/L	5.574
L	Sb	121	92395.998	64.334	21.213	ug/L	5.025

⌈	Sn	118	79832.874	75.334	**20.114**	ug/L	4.692
|	Sn r	120	109536.748	105.668	**20.443**	ug/L	4.900
|	Ba r	137	169271.421	45.001	**84.826**	ug/L	4.078
|	Ba	135	97611.769	29.334	**84.894**	ug/L	4.403
|>	Tb	159	220820.278	246566.473		ug/L	
|	Tl r	205	231353.167	250.007	**19.750**	ug/L	4.675
|	Tl	203	93750.917	88.001	**19.775**	ug/L	3.429
|	U	238	372487.900	27.667	**20.335**	ug/L	3.579
L	Pb	208	324656.294	639.017	**20.979**	ug/L	4.153
⌈	Na	23	2139722.266	27801.440	**0.428**	mg/L	3.369
|	Mg	24	1402493.778	465.019	**0.400**	mg/L	4.214
|	K	39	7559456.109	632805.158	**0.866**	mg/L	4.643
|	Ca	44	102877.510	13238.849	**0.395**	mg/L	5.283
|	Fe	54	130411.501	26822.312	**0.194**	mg/L	4.415
L>	Sc-1	45	362631.397	394877.015		ug/L	
	Kr	83	158.003	169.004		ug/L	
	Cl	35	30388210.609	30269094.238		mg/L	
	C	12	404271.983	349975.208		mg/L	
	Y	89	181740.108	202348.465		ug/L	
⌈	Br	79	2551.116	2134.984	**2.895**	ug/L	21.151
|	Br	81	15070.235	16210.893	**2.358**	ug/L	14.505
L>	Ge-1	72	102028.943	113753.819		ug/L	
	Ru	99	6.000	2.667		ug/L	
	Pd	105	1904.922	2210.006		ug/L	
	Ho	165	213005.856	240288.136		ug/L	
	Th	232	438.017	112.002	**0.018**	ug/L	11.056
⌈	Mo	95	41214.593	101.002	**20.705**	ug/L	4.402
|	Mo	97	26219.891	65.668	**20.926**	ug/L	4.008
|	Mo r	98	68741.721	146.375	**20.963**	ug/L	4.324
|	Rh	103	29.000	8.000		ug/L	
L>	In-1	115	186816.786	211170.792		ug/L	
	Ti	47	11201.272	229.006		ug/L	
	Li	7	52563.507	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: BB20707-BLK1

Sample Description:
Autosampler Position: 35
Sample Date/Time: Thursday, February 09, 2012 11:10:31
Dataset File: C:\Elandata\Dataset\EL120209\BB20707-BLK1.031
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.000	2.667	-0.004	ug/L	67.287
|>	Li u	6	369277.271	393432.269		ug/L	
⌊	Li	6	367205.740	391219.680		ug/L	
⌈	Be	9	1.000	2.667	-0.004	ug/L	76.708
|	B	11	131.002	102.002	0.102	ug/L	32.413
|	Al	27	2727.178	1604.517	0.294	ug/L	9.401
|>	Sc	45	344194.606	394877.015		ug/L	
|	V r	51	197.462	-675.869	0.111	ug/L	181.058
|	V u	51	124199.529	102913.850	4.845	ug/L	4.839
|	Cr r	52	10622.436	10226.564	0.290	ug/L	11.148
|	Cr	53	42262.875	35789.841	16.288	ug/L	8.146
|	Mn	55	535.357	451.684	0.015	ug/L	2.772
|	Co	59	30.667	53.667	-0.002	ug/L	20.498
|	Ni r	60	48.334	53.667	0.001	ug/L	428.156
|	Ni	62	82.335	93.001	0.006	ug/L	1115.567
|	Cu r	63	497.688	196.671	0.118	ug/L	1.627
⌊	Cu	65	245.006	106.668	0.119	ug/L	17.151
⌈	Zn r	66	209.338	202.338	0.047	ug/L	68.095
|	Zn	67	2825.548	1698.540	9.465	ug/L	6.936
|	Zn	68	413.349	310.676	0.259	ug/L	6.264
|>	Ge	72	97214.756	113753.819		ug/L	
|	As r	75	-349.069	-197.552	-0.181	ug/L	71.871
|	As u	75	8166.415	7220.131	2.122	ug/L	8.472
|	Se r	82	-5.763	13.531	-0.156	ug/L	105.618
|	Se	77	2602.902	2370.118	7.582	ug/L	7.467
⌊	Sr	88	284.675	147.670	0.013	ug/L	16.342
⌈	Ag r	107	21.334	31.667	-0.001	ug/L	42.154
|	Ag	109	17.667	22.334	-0.000	ug/L	225.429
|	Cd r	111	148.988	159.175	0.010	ug/L	30.904
|	Cd	106	-2063.290	-2501.520	0.695	ug/L	128.659
|	Cd	108	-2179.596	-2616.420	0.703	ug/L	167.635
|	Cd	114	2.531	10.979	-0.002	ug/L	35.195
|	Cd u	111	5.667	6.333	0.000	ug/L	1040.710
|>	In	115	180783.860	211170.792		ug/L	
|	Sb r	123	30.952	48.407	-0.003	ug/L	28.165
⌊	Sb	121	35.667	64.334	-0.005	ug/L	31.529

⌈	Sn	118	179.004	75.334	**0.030**	ug/L	19.635
|	Sn r	120	227.672	105.668	**0.027**	ug/L	7.124
|	Ba r	137	83.335	45.001	**0.024**	ug/L	53.058
|	Ba	135	57.334	29.334	**0.029**	ug/L	27.056
|>	Tb	159	210806.503	246566.473		ug/L	
|	Tl r	205	276.008	250.007	**0.006**	ug/L	30.276
|	Tl	203	117.002	88.001	**0.009**	ug/L	22.379
|	U	238	18.334	27.667	**-0.000**	ug/L	39.984
⌊	Pb	208	339.006	639.017	**-0.014**	ug/L	5.168
⌈	Na	23	28961.046	27801.440	**0.001**	mg/L	17.202
|	Mg	24	1239.112	465.019	**0.000**	mg/L	6.811
|	K	39	574024.931	632805.158	**0.003**	mg/L	28.700
|	Ca	44	11192.583	13238.849	**-0.002**	mg/L	67.284
|	Fe	54	25402.965	26822.312	**0.004**	mg/L	23.472
⌊>	Sc-1	45	344194.606	394877.015		ug/L	
	Kr	83	164.337	169.004		ug/L	
	Cl	35	29951450.582	30269094.238		mg/L	
	C	12	402891.569	349975.208		mg/L	
	Y	89	174855.093	202348.465		ug/L	
⌈	Br	79	1681.201	2134.984	**-0.682**	ug/L	54.596
|	Br	81	13958.464	16210.893	**0.495**	ug/L	372.384
⌊>	Ge-1	72	97214.756	113753.819		ug/L	
	Ru	99	2.667	2.667		ug/L	
	Pd	105	1840.239	2210.006		ug/L	
	Ho	165	204434.185	240288.136		ug/L	
	Th	232	148.336	112.002	**0.002**	ug/L	42.757
⌈	Mo	95	87.668	101.002	**0.001**	ug/L	1068.640
|	Mo	97	62.001	65.668	**0.005**	ug/L	224.237
|	Mo r	98	138.485	146.375	**0.004**	ug/L	77.910
|	Rh	103	8.000	8.000		ug/L	
⌊>	In-1	115	180783.860	211170.792		ug/L	
	Ti	47	173.337	229.006		ug/L	
	Li	7	25542.931	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Thursday, February 09, 2012 11:21:07
Dataset File: C:\Elandata\Dataset\EL120209\QC Std 2.033
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	16983.566	2.667	**49.865**	ug/L	0.951
|>	Li u	6	361223.759	393432.269		ug/L	
⌊	Li	6	359226.568	391219.680		ug/L	
⌈	Be	9	16983.566	2.667	**52.572**	ug/L	1.666
|	B	11	22150.123	102.002	**52.294**	ug/L	4.557
|	Al	27	236660.125	1604.517	**50.935**	ug/L	0.051
|>	Sc	45	351651.893	394877.015		ug/L	
|	V r	51	362228.619	-675.869	**50.341**	ug/L	1.062
|	V u	51	466876.592	102913.850	**51.562**	ug/L	1.007
|	Cr r	52	314046.837	10226.564	**50.675**	ug/L	0.884
|	Cr	53	70059.650	35789.841	**54.980**	ug/L	3.084
|	Mn	55	484875.783	451.684	**50.209**	ug/L	0.293
|	Co	59	335020.504	53.667	**49.999**	ug/L	0.353
|	Ni r	60	69361.672	53.667	**50.262**	ug/L	0.630
|	Ni	62	10032.639	93.001	**50.249**	ug/L	1.095
|	Cu r	63	142012.018	196.671	**50.381**	ug/L	1.084
⌊	Cu	65	66076.914	106.668	**50.374**	ug/L	0.400
⌈	Zn r	66	40661.934	202.338	**51.822**	ug/L	1.172
|	Zn	67	9593.742	1698.540	**56.263**	ug/L	1.036
|	Zn	68	29793.888	310.676	**51.823**	ug/L	0.920
|>	Ge	72	96975.073	113753.819		ug/L	
|	As r	75	50842.284	-197.552	**51.197**	ug/L	0.581
|	As u	75	54355.244	7220.131	**51.358**	ug/L	0.726
|	Se r	82	5628.794	13.531	**51.011**	ug/L	1.170
|	Se	77	5946.186	2370.118	**51.663**	ug/L	2.631
⌊	Sr	88	615631.767	147.670	**51.013**	ug/L	1.099
⌈	Ag r	107	253575.097	31.667	**50.742**	ug/L	2.172
|	Ag	109	240915.206	22.334	**50.362**	ug/L	2.521
|	Cd r	111	61777.125	159.175	**49.922**	ug/L	1.899
|	Cd	106	3497.842	-2501.520	**50.911**	ug/L	1.739
|	Cd	108	2057.431	-2616.420	**50.973**	ug/L	1.770
|	Cd	114	141878.019	10.979	**50.052**	ug/L	1.893
|	Cd u	111	61953.771	6.333	**49.923**	ug/L	2.033
|>	In	115	178113.992	211170.792		ug/L	
|	Sb r	123	159561.165	48.407	**50.645**	ug/L	1.794
⌊	Sb	121	207687.451	64.334	**50.017**	ug/L	1.749

⌈	Sn	118	186709.324	75.334	**49.287**	ug/L	1.368
|	Sn r	120	255553.205	105.668	**49.973**	ug/L	2.277
|	Ba r	137	95758.049	45.001	**50.256**	ug/L	2.634
|	Ba	135	55633.351	29.334	**50.665**	ug/L	1.495
|>	Tb	159	210781.249	246566.473		ug/L	
|	Tl r	205	539388.832	250.007	**48.247**	ug/L	0.226
|	Tl	203	221798.778	88.001	**49.018**	ug/L	0.577
|	U	238	864035.255	27.667	**49.399**	ug/L	0.264
⌊	Pb	208	735395.829	639.017	**49.815**	ug/L	0.653
⌈	Na	23	25604175.121	27801.440	**5.343**	mg/L	0.432
|	Mg	24	17902828.142	465.019	**5.269**	mg/L	0.781
|	K	39	41350723.998	632805.158	**5.217**	mg/L	0.130
|	Ca	44	1085003.234	13238.849	**4.813**	mg/L	0.462
|	Fe	54	2837838.488	26822.312	**5.314**	mg/L	0.561
⌊>	Sc-1	45	351651.893	394877.015		ug/L	
	Kr	83	166.003	169.004		ug/L	
	Cl	35	29492356.234	30269094.238		mg/L	
	C	12	406416.795	349975.208		mg/L	
	Y	89	175008.218	202348.465		ug/L	
⌈	Br	79	12806.446	2134.984	**52.523**	ug/L	0.273
|	Br	81	25295.111	16210.893	**53.737**	ug/L	2.622
⌊>	Ge-1	72	96975.073	113753.819		ug/L	
	Ru	99	14.333	2.667		ug/L	
	Pd	105	1906.255	2210.006		ug/L	
	Ho	165	204626.453	240288.136		ug/L	
	Th	232	817935.795	112.002	**45.332**	ug/L	2.079
⌈	Mo	95	95326.329	101.002	**50.287**	ug/L	2.381
|	Mo	97	60599.366	65.668	**50.789**	ug/L	2.252
|	Mo r	98	157968.504	146.375	**50.578**	ug/L	2.593
|	Rh	103	43.001	8.000		ug/L	
⌊>	In-1	115	178113.992	211170.792		ug/L	
	Ti	47	231.672	229.006		ug/L	
	Li	7	24626.269	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
QC Std 2	Zn 67	CCV (CLC) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 4

Sample Description:
Autosampler Position: 1
Sample Date/Time: Thursday, February 09, 2012 11:26:19
Dataset File: C:\Elandata\Dataset\EL120209\QC Std 4.034
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	4.667	2.667	0.006	ug/L	95.088
|>	Li u	6	368107.865	393432.269		ug/L	
⌞	Li	6	366041.730	391219.680		ug/L	
⌜	Be	9	4.667	2.667	0.007	ug/L	91.442
|	B	11	238.006	102.002	0.341	ug/L	38.298
|	Al	27	1364.468	1604.517	-0.018	ug/L	14.564
|>	Sc	45	356912.941	394877.015		ug/L	
|	V r	51	-201.419	-675.869	0.056	ug/L	135.451
|	V u	51	98581.008	102913.850	0.751	ug/L	59.444
|	Cr r	52	8271.865	10226.564	-0.159	ug/L	23.584
|	Cr	53	34011.821	35789.841	2.347	ug/L	84.270
|	Mn	55	404.348	451.684	-0.000	ug/L	673.863
|	Co	59	67.001	53.667	0.003	ug/L	54.215
|	Ni r	60	41.667	53.667	-0.005	ug/L	61.065
|	Ni	62	89.335	93.001	0.026	ug/L	179.666
|	Cu r	63	175.337	196.671	-0.001	ug/L	365.246
⌞	Cu	65	96.335	106.668	-0.000	ug/L	24366.922
⌜	Zn r	66	125.669	202.338	-0.064	ug/L	20.630
|	Zn	67	2627.142	1698.540	7.661	ug/L	9.764
|	Zn	68	313.010	310.676	0.070	ug/L	34.191
|>	Ge	72	99621.601	113753.819		ug/L	
|	As r	75	25.035	-197.552	0.193	ug/L	34.898
|	As u	75	5254.849	7220.131	-1.108	ug/L	17.756
|	Se r	82	2.290	13.531	-0.085	ug/L	172.838
|	Se	77	1671.660	2370.118	-5.178	ug/L	20.129
⌞	Sr	88	195.004	147.670	0.005	ug/L	44.454
⌜	Ag r	107	62.001	31.667	0.006	ug/L	52.814
|	Ag	109	63.001	22.334	0.009	ug/L	36.096
|	Cd r	111	154.492	159.175	0.010	ug/L	60.322
|	Cd	106	-2134.375	-2501.520	0.720	ug/L	82.493
|	Cd	108	-2249.292	-2616.420	0.800	ug/L	91.833
|	Cd	114	20.027	10.979	0.003	ug/L	73.968
|	Cd u	111	11.333	6.333	0.004	ug/L	69.660
|>	In	115	187237.689	211170.792		ug/L	
|	Sb r	123	56.995	48.407	0.004	ug/L	43.279
⌞	Sb	121	58.001	64.334	0.000	ug/L	1525.046

⌈	Sn	118	222.672	75.334	**0.039**	ug/L	34.671
|	Sn r	120	321.344	105.668	**0.043**	ug/L	45.145
|	Ba r	137	50.667	45.001	**0.005**	ug/L	47.571
|	Ba	135	34.000	29.334	**0.007**	ug/L	81.214
|>	Tb	159	219913.086	246566.473		ug/L	
|	Tl r	205	2807.617	250.007	**0.222**	ug/L	51.416
|	Tl	203	1122.438	88.001	**0.221**	ug/L	49.781
|	U	238	211.672	27.667	**0.010**	ug/L	43.295
⌊	Pb	208	456.677	639.017	**-0.007**	ug/L	41.783
⌈	Na	23	27092.918	27801.440	**0.000**	mg/L	42.855
|	Mg	24	1726.557	465.019	**0.000**	mg/L	42.228
|	K	39	569102.721	632805.158	**-0.000**	mg/L	26.828
|	Ca	44	10109.073	13238.849	**-0.008**	mg/L	4.570
|	Fe	54	24364.698	26822.312	**0.000**	mg/L	81.000
⌊>	Sc-1	45	356912.941	394877.015		ug/L	
	Kr	83	158.337	169.004		ug/L	
	Cl	35	28847593.755	30269094.238		mg/L	
	C	12	336531.892	349975.208		mg/L	
	Y	89	180215.954	202348.465		ug/L	
⌈	Br	79	2312.704	2134.984	**2.061**	ug/L	9.568
|	Br	81	14748.272	16210.893	**2.513**	ug/L	5.520
⌊>	Ge-1	72	99621.601	113753.819		ug/L	
	Ru	99	1.667	2.667		ug/L	
	Pd	105	1901.587	2210.006		ug/L	
	Ho	165	209573.800	240288.136		ug/L	
	Th	232	4606.651	112.002	**0.249**	ug/L	50.880
⌈	Mo	95	215.005	101.002	**0.063**	ug/L	34.789
|	Mo	97	132.669	65.668	**0.059**	ug/L	59.010
|	Mo r	98	327.493	146.375	**0.060**	ug/L	39.023
|	Rh	103	7.000	8.000		ug/L	
⌊>	In-1	115	187237.689	211170.792		ug/L	
	Ti	47	149.670	229.006		ug/L	
	Li	7	25476.382	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
QC Std 4	V u	51	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cr	53	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Zn	67	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	As u	75	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cd	106	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cd	108	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br	79	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br	81	IBL (LCB) is out of limits (+/- 0.400ug/L)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-01

Sample Description:
Autosampler Position: 37
Sample Date/Time: Thursday, February 09, 2012 11:31:38
Dataset File: C:\Elandata\Dataset\EL120209\1202003-01.035
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	2.333	2.667	-0.001	ug/L	316.210
|>	Li u	6	372246.511	393432.269		ug/L	
⌞	Li	6	369465.949	391219.680		ug/L	
⌜	Be	9	2.333	2.667	-0.000	ug/L	2400.290
|	B	11	4737.508	102.002	11.121	ug/L	5.261
|	Al	27	4761.189	1604.517	0.731	ug/L	7.896
|>	Sc	45	348545.345	394877.015		ug/L	
|	V r	51	-301.219	-675.869	0.040	ug/L	589.059
|	V u	51	109576.733	102913.850	2.598	ug/L	4.167
|	Cr r	52	9381.478	10226.564	0.059	ug/L	5.352
|	Cr	53	37991.637	35789.841	9.305	ug/L	11.020
|	Mn	55	2629.810	451.684	0.233	ug/L	5.997
|	Co	59	194.004	53.667	0.022	ug/L	14.243
|	Ni r	60	757.378	53.667	0.520	ug/L	11.315
|	Ni	62	92.001	93.001	0.050	ug/L	62.649
|	Cu r	63	2270.359	196.671	0.752	ug/L	8.174
⌞	Cu	65	1055.416	106.668	0.741	ug/L	7.036
⌜	Zn r	66	455.018	202.338	0.362	ug/L	2.666
|	Zn	67	3042.966	1698.540	11.047	ug/L	4.632
|	Zn	68	1619.520	310.676	2.382	ug/L	7.162
|>	Ge	72	96852.982	113753.819		ug/L	
|	As r	75	87.934	-197.552	0.257	ug/L	16.426
|	As u	75	6905.835	7220.131	0.810	ug/L	10.755
|	Se r	82	-18.447	13.531	-0.272	ug/L	26.191
|	Se	77	2117.056	2370.118	1.308	ug/L	18.521
⌞	Sr	88	7171999.709	147.670	595.533	ug/L	6.894
⌜	Ag r	107	37.334	31.667	0.002	ug/L	43.854
|	Ag	109	27.334	22.334	0.001	ug/L	62.773
|	Cd r	111	165.208	159.175	0.019	ug/L	54.152
|	Cd	106	-2743.391	-2501.520	-4.575	ug/L	16.941
|	Cd	108	-2857.930	-2616.420	-6.168	ug/L	13.132
|	Cd	114	7.321	10.979	-0.001	ug/L	267.718
|	Cd u	111	7.333	6.333	0.001	ug/L	122.696
|>	In	115	186923.697	211170.792		ug/L	
|	Sb r	123	109.851	48.407	0.020	ug/L	5.298
⌞	Sb	121	95.668	64.334	0.009	ug/L	8.150

	Sn	118	162.003	75.334	**0.024**	ug/L	23.000
	Sn r	120	213.005	105.668	**0.022**	ug/L	20.760
	Ba r	137	130276.994	45.001	**65.742**	ug/L	6.368
	Ba	135	75207.680	29.334	**65.864**	ug/L	6.415
>	Tb	159	219165.886	246566.473		ug/L	
	Tl r	205	717.707	250.007	**0.043**	ug/L	5.551
	Tl	203	291.675	88.001	**0.045**	ug/L	2.676
	U	238	10398.138	27.667	**0.570**	ug/L	4.573
	Pb	208	1044.039	639.017	**0.031**	ug/L	15.017
	Na	23	15147189.954	27801.440	**3.188**	mg/L	5.075
	Mg	24	12114305.296	465.019	**3.599**	mg/L	6.109
	K	39	4449984.984	632805.158	**0.502**	mg/L	5.909
	Ca	44	3220750.083	13238.849	**14.527**	mg/L	5.675
	Fe	54	25793.886	26822.312	**0.004**	mg/L	53.850
>	Sc-1	45	348545.345	394877.015		ug/L	
	Kr	83	166.337	169.004		ug/L	
	Cl	35	30299775.728	30269094.238		mg/L	
	C	12	398857.281	349975.208		mg/L	
	Y	89	179378.890	202348.465		ug/L	
	Br	79	1502.829	2134.984	**-1.506**	ug/L	21.864
	Br	81	13664.266	16210.893	**-0.624**	ug/L	370.291
>	Ge-1	72	96852.982	113753.819		ug/L	
	Ru	99	2.000	2.667		ug/L	
	Pd	105	2416.070	2210.006		ug/L	
	Ho	165	211316.697	240288.136		ug/L	
	Th	232	1697.883	112.002	**0.088**	ug/L	33.812
	Mo	95	687.038	101.002	**0.300**	ug/L	7.377
	Mo	97	446.351	65.668	**0.310**	ug/L	6.383
	Mo r	98	1156.360	146.375	**0.313**	ug/L	1.621
	Rh	103	246.673	8.000		ug/L	
>	In-1	115	186923.697	211170.792		ug/L	
	Ti	47	414.349	229.006		ug/L	
	Li	7	34285.592	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-02

Sample Description:
Autosampler Position: 39
Sample Date/Time: Thursday, February 09, 2012 11:42:22
Dataset File: C:\Elandata\Dataset\EL120209\1202003-02.037
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.000	2.667	-0.004	ug/L	1.436
|>	Li u	6	378730.061	393432.269		ug/L	
⌊	Li	6	375948.496	391219.680		ug/L	
⌈	Be	9	1.000	2.667	-0.004	ug/L	1.009
|	B	11	4760.189	102.002	11.563	ug/L	5.106
|	Al	27	22385.945	1604.517	4.753	ug/L	17.519
|>	Sc	45	337044.349	394877.015		ug/L	
|	V r	51	342.512	-675.869	0.135	ug/L	188.949
|	V u	51	122954.215	102913.850	5.038	ug/L	9.146
|	Cr r	52	10524.634	10226.564	0.312	ug/L	6.421
|	Cr	53	42273.603	35789.841	17.615	ug/L	3.883
|	Mn	55	4047.114	451.684	0.396	ug/L	13.493
|	Co	59	168.337	53.667	0.019	ug/L	14.964
|	Ni r	60	711.374	53.667	0.504	ug/L	15.471
|	Ni	62	87.335	93.001	0.043	ug/L	174.062
|	Cu r	63	1956.935	196.671	0.663	ug/L	3.632
⌊	Cu	65	915.730	106.668	0.657	ug/L	1.797
⌈	Zn r	66	304.676	202.338	0.182	ug/L	20.548
|	Zn	67	2986.943	1698.540	11.282	ug/L	2.989
|	Zn	68	1417.812	310.676	2.103	ug/L	2.425
|>	Ge	72	93997.130	113753.819		ug/L	
|	As r	75	-85.465	-197.552	0.080	ug/L	162.813
|	As u	75	8612.572	7220.131	2.910	ug/L	2.927
|	Se r	82	0.357	13.531	-0.101	ug/L	302.784
|	Se	77	2644.687	2370.118	9.319	ug/L	10.180
⌊	Sr	88	7112677.048	147.670	608.378	ug/L	5.528
⌈	Ag r	107	107.669	31.667	0.016	ug/L	10.453
|	Ag	109	26.667	22.334	0.002	ug/L	33.003
|	Cd r	111	267.785	159.175	0.106	ug/L	12.608
|	Cd	106	-2284.569	-2501.520	-1.348	ug/L	56.946
|	Cd	108	-2575.227	-2616.420	-4.050	ug/L	28.350
|	Cd	114	13.734	10.979	0.002	ug/L	85.410
|	Cd u	111	10.000	6.333	0.004	ug/L	57.172
|>	In	115	180155.002	211170.792		ug/L	
|	Sb r	123	92.845	48.407	0.016	ug/L	29.130
⌊	Sb	121	81.335	64.334	0.006	ug/L	31.080

⌈	Sn	118	246.006	75.334	**0.047**	ug/L	7.392
|	Sn r	120	308.343	105.668	**0.042**	ug/L	8.070
|	Ba r	137	124510.123	45.001	**64.866**	ug/L	5.259
|	Ba	135	71186.726	29.334	**64.361**	ug/L	5.506
|>	Tb	159	212373.974	246566.473		ug/L	
|	Tl r	205	370.346	250.007	**0.014**	ug/L	9.668
|	Tl	203	143.669	88.001	**0.015**	ug/L	25.316
|	U	238	9592.417	27.667	**0.543**	ug/L	5.882
⌊	Pb	208	610.682	639.017	**0.004**	ug/L	52.091
⌈	Na	23	14935539.100	27801.440	**3.251**	mg/L	5.178
|	Mg	24	11634963.660	465.019	**3.575**	mg/L	5.547
|	K	39	4279539.918	632805.158	**0.499**	mg/L	5.175
|	Ca	44	3041970.188	13238.849	**14.188**	mg/L	5.630
|	Fe	54	25255.563	26822.312	**0.005**	mg/L	28.001
⌊>	Sc-1	45	337044.349	394877.015		ug/L	
	Kr	83	150.670	169.004		ug/L	
	Cl	35	29371886.268	30269094.238		mg/L	
	C	12	397638.440	349975.208		mg/L	
	Y	89	174801.725	202348.465		ug/L	
⌈	Br	79	1333.129	2134.984	**-2.124**	ug/L	19.166
|	Br	81	13431.517	16210.893	**0.180**	ug/L	412.053
⌊>	Ge-1	72	93997.130	113753.819		ug/L	
	Ru	99	1.667	2.667		ug/L	
	Pd	105	2259.355	2210.006		ug/L	
	Ho	165	203444.997	240288.136		ug/L	
	Th	232	754.712	112.002	**0.036**	ug/L	16.812
⌈	Mo	95	669.369	101.002	**0.304**	ug/L	4.940
|	Mo	97	415.682	65.668	**0.298**	ug/L	5.498
|	Mo r	98	1081.385	146.375	**0.303**	ug/L	3.617
|	Rh	103	248.340	8.000		ug/L	
⌊>	In-1	115	180155.002	211170.792		ug/L	
	Ti	47	448.684	229.006		ug/L	
	Li	7	34297.969	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: BB20707-DUP1

Sample Description:
Autosampler Position: 38
Sample Date/Time: Thursday, February 09, 2012 11:37:00
Dataset File: C:\Elandata\Dataset\EL120209\BB20707-DUP1.036
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	1.333	2.667	-0.003	ug/L	45.150
|>	Li u	6	377891.966	393432.269		ug/L	
⌞	Li	6	375087.835	391219.680		ug/L	
⌜	Be	9	1.333	2.667	-0.003	ug/L	55.468
|	B	11	4810.887	102.002	11.368	ug/L	5.679
|	Al	27	4435.657	1604.517	0.666	ug/L	6.383
|>	Sc	45	346492.420	394877.015		ug/L	
|	V r	51	-407.752	-675.869	0.027	ug/L	328.524
|	V u	51	119254.980	102913.850	4.041	ug/L	10.518
|	Cr r	52	10158.471	10226.564	0.200	ug/L	16.584
|	Cr	53	41217.891	35789.841	14.349	ug/L	9.499
|	Mn	55	2539.112	451.684	0.226	ug/L	8.833
|	Co	59	184.671	53.667	0.021	ug/L	8.031
|	Ni r	60	727.375	53.667	0.501	ug/L	10.171
|	Ni	62	89.001	93.001	0.038	ug/L	54.950
|	Cu r	63	2169.662	196.671	0.721	ug/L	8.709
⌞	Cu	65	1021.745	106.668	0.720	ug/L	5.745
⌜	Zn r	66	384.680	202.338	0.283	ug/L	10.628
|	Zn	67	3057.305	1698.540	11.585	ug/L	5.175
|	Zn	68	1561.841	310.676	2.341	ug/L	11.962
|>	Ge	72	94874.351	113753.819		ug/L	
|	As r	75	-63.235	-197.552	0.103	ug/L	241.810
|	As u	75	8061.303	7220.131	2.225	ug/L	10.317
|	Se r	82	-14.102	13.531	-0.235	ug/L	28.824
|	Se	77	2523.868	2370.118	7.390	ug/L	24.410
⌞	Sr	88	7092506.994	147.670	601.617	ug/L	7.987
⌜	Ag r	107	28.334	31.667	0.000	ug/L	227.562
|	Ag	109	24.000	22.334	0.001	ug/L	113.215
|	Cd r	111	147.140	159.175	0.006	ug/L	134.611
|	Cd	106	-2671.344	-2501.520	-4.189	ug/L	11.610
|	Cd	108	-2767.511	-2616.420	-5.463	ug/L	12.447
|	Cd	114	12.891	10.979	0.001	ug/L	136.386
|	Cd u	111	5.667	6.333	0.000	ug/L	1839.935
|>	In	115	185048.176	211170.792		ug/L	
|	Sb r	123	98.506	48.407	0.017	ug/L	41.766
⌞	Sb	121	93.335	64.334	0.009	ug/L	35.596

	Sn	118	128.336	75.334	**0.016**	ug/L	50.462
	Sn r	120	189.004	105.668	**0.018**	ug/L	24.048
	Ba r	137	129685.468	45.001	**66.249**	ug/L	8.668
	Ba	135	75011.575	29.334	**66.505**	ug/L	8.570
>	Tb	159	216692.727	246566.473		ug/L	
	Tl r	205	492.021	250.007	**0.024**	ug/L	10.105
	Tl	203	175.670	88.001	**0.021**	ug/L	4.385
	U	238	10138.134	27.667	**0.563**	ug/L	8.467
	Pb	208	980.368	639.017	**0.028**	ug/L	26.195
	Na	23	15150505.736	27801.440	**3.209**	mg/L	8.220
	Mg	24	12026015.799	465.019	**3.595**	mg/L	7.828
	K	39	4404124.317	632805.158	**0.500**	mg/L	7.890
	Ca	44	3178636.183	13238.849	**14.426**	mg/L	7.856
	Fe	54	26359.366	26822.312	**0.005**	mg/L	67.010
>	Sc-1	45	346492.420	394877.015		ug/L	
	Kr	83	165.003	169.004		ug/L	
	Cl	35	30502814.997	30269094.238		mg/L	
	C	12	399321.611	349975.208		mg/L	
	Y	89	177542.065	202348.465		ug/L	
	Br	79	1344.131	2134.984	**-2.127**	ug/L	18.505
	Br	81	13026.818	16210.893	**-2.335**	ug/L	68.105
>	Ge-1	72	94874.351	113753.819		ug/L	
	Ru	99	4.333	2.667		ug/L	
	Pd	105	2340.046	2210.006		ug/L	
	Ho	165	208851.066	240288.136		ug/L	
	Th	232	852.724	112.002	**0.041**	ug/L	24.758
	Mo	95	669.703	101.002	**0.295**	ug/L	13.983
	Mo	97	418.682	65.668	**0.292**	ug/L	8.903
	Mo r	98	1109.205	146.375	**0.303**	ug/L	9.557
	Rh	103	235.673	8.000		ug/L	
>	In-1	115	185048.176	211170.792		ug/L	
	Ti	47	417.349	229.006		ug/L	
	Li	7	34576.219	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-03

Sample Description:
Autosampler Position: 40
Sample Date/Time: Thursday, February 09, 2012 11:47:41
Dataset File: C:\Elandata\Dataset\EL120209\1202003-03.038
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	1.667	2.667	-0.002	ug/L	174.262
|>	Li u	6	376233.104	393432.269		ug/L	
⌞	Li	6	373411.780	391219.680		ug/L	
⌜	Be	9	1.667	2.667	-0.002	ug/L	234.063
|	B	11	3875.684	102.002	9.280	ug/L	7.237
|	Al	27	12879.668	1604.517	2.570	ug/L	12.442
|>	Sc	45	340468.737	394877.015		ug/L	
|	V r	51	-439.089	-675.869	0.021	ug/L	475.025
|	V u	51	125838.079	102913.850	5.269	ug/L	8.200
|	Cr r	52	10644.802	10226.564	0.314	ug/L	14.386
|	Cr	53	43219.195	35789.841	18.392	ug/L	9.680
|	Mn	55	6281.965	451.684	0.631	ug/L	7.004
|	Co	59	186.004	53.667	0.022	ug/L	10.119
|	Ni r	60	792.382	53.667	0.559	ug/L	13.218
|	Ni	62	82.668	93.001	0.013	ug/L	289.852
|	Cu r	63	4163.171	196.671	1.466	ug/L	6.995
⌞	Cu	65	1890.918	106.668	1.419	ug/L	7.119
⌜	Zn r	66	1462.487	202.338	1.698	ug/L	7.873
|	Zn	67	3297.406	1698.540	13.337	ug/L	2.244
|	Zn	68	2526.775	310.676	4.081	ug/L	7.791
|>	Ge	72	94643.983	113753.819		ug/L	
|	As r	75	248.256	-197.552	0.424	ug/L	15.376
|	As u	75	9294.040	7220.131	3.590	ug/L	9.522
|	Se r	82	0.032	13.531	-0.104	ug/L	147.170
|	Se	77	2832.433	2370.118	11.604	ug/L	5.377
⌞	Sr	88	2884688.822	147.670	245.066	ug/L	7.733
⌜	Ag r	107	27.000	31.667	0.000	ug/L	109.473
|	Ag	109	15.667	22.334	-0.001	ug/L	188.250
|	Cd r	111	138.526	159.175	0.006	ug/L	135.675
|	Cd	106	-2140.496	-2501.520	-0.667	ug/L	158.927
|	Cd	108	-2246.551	-2616.420	-1.011	ug/L	125.284
|	Cd	114	13.879	10.979	0.002	ug/L	23.873
|	Cd u	111	4.667	6.333	-0.000	ug/L	247.081
|>	In	115	174718.440	211170.792		ug/L	
|	Sb r	123	131.524	48.407	0.030	ug/L	21.655
⌞	Sb	121	141.669	64.334	0.022	ug/L	21.675

⌈	Sn	118	116.335	75.334	**0.015**	ug/L	20.850
|	Sn r	120	170.670	105.668	**0.017**	ug/L	35.447
|	Ba r	137	155712.817	45.001	**85.253**	ug/L	6.667
|	Ba	135	89438.627	29.334	**84.987**	ug/L	6.830
|>	Tb	159	202209.425	246566.473		ug/L	
|	Tl r	205	311.009	250.007	**0.010**	ug/L	4.501
|	Tl	203	118.335	88.001	**0.011**	ug/L	17.043
|	U	238	26642.117	27.667	**1.588**	ug/L	8.418
L	Pb	208	1671.421	639.017	**0.081**	ug/L	12.475
⌈	Na	23	21706376.986	27801.440	**4.680**	mg/L	6.030
|	Mg	24	11828803.436	465.019	**3.597**	mg/L	7.034
|	K	39	5699174.658	632805.158	**0.681**	mg/L	6.790
|	Ca	44	3413484.578	13238.849	**15.766**	mg/L	7.273
|	Fe	54	62541.462	26822.312	**0.077**	mg/L	8.047
L>	Sc-1	45	340468.737	394877.015		ug/L	
	Kr	83	149.670	169.004		ug/L	
	Cl	35	29594327.067	30269094.238		mg/L	
	C	12	367435.171	349975.208		mg/L	
	Y	89	167102.173	202348.465		ug/L	
⌈	Br	79	1532.501	2134.984	**-1.193**	ug/L	22.787
|	Br	81	13088.258	16210.893	**-1.919**	ug/L	30.189
L>	Ge-1	72	94643.983	113753.819		ug/L	
	Ru	99	2.000	2.667		ug/L	
	Pd	105	1906.589	2210.006		ug/L	
	Ho	165	195904.346	240288.136		ug/L	
	Th	232	467.686	112.002	**0.020**	ug/L	30.597
⌈	Mo	95	400.348	101.002	**0.171**	ug/L	7.897
|	Mo	97	231.672	65.668	**0.152**	ug/L	16.126
|	Mo r	98	600.475	146.375	**0.157**	ug/L	7.286
|	Rh	103	91.668	8.000		ug/L	
L>	In-1	115	174718.440	211170.792		ug/L	
	Ti	47	394.681	229.006		ug/L	
	Li	7	34788.205	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-04

Sample Description:
Autosampler Position: 41
Sample Date/Time: Thursday, February 09, 2012 11:52:56
Dataset File: C:\Elandata\Dataset\EL120209\1202003-04.039
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	2.333	2.667	-0.001	ug/L	835.741
|>	Li u	6	371438.654	393432.269		ug/L	
⌊	Li	6	368625.478	391219.680		ug/L	
⌈	Be	9	2.333	2.667	0.000	ug/L	2338.709
|	B	11	3899.361	102.002	9.465	ug/L	3.038
|	Al	27	13313.729	1604.517	2.710	ug/L	12.363
|>	Sc	45	335883.233	394877.015		ug/L	
|	V r	51	-413.180	-675.869	0.022	ug/L	1234.817
|	V u	51	125691.546	102913.850	5.489	ug/L	1.271
|	Cr r	52	10514.955	10226.564	0.316	ug/L	6.009
|	Cr	53	42987.548	35789.841	18.907	ug/L	2.442
|	Mn	55	7564.128	451.684	0.779	ug/L	3.008
|	Co	59	191.004	53.667	0.023	ug/L	13.384
|	Ni r	60	808.051	53.667	0.579	ug/L	12.075
|	Ni	62	94.002	93.001	0.079	ug/L	76.211
|	Cu r	63	4014.421	196.671	1.431	ug/L	3.028
⌊	Cu	65	1895.586	106.668	1.443	ug/L	3.359
⌈	Zn r	66	484.687	202.338	0.424	ug/L	2.388
|	Zn	67	3069.310	1698.540	12.024	ug/L	3.881
|	Zn	68	1810.565	310.676	2.836	ug/L	4.725
|>	Ge	72	93345.554	113753.819		ug/L	
|	As r	75	142.063	-197.552	0.318	ug/L	111.661
|	As u	75	9371.466	7220.131	3.816	ug/L	4.448
|	Se r	82	-5.641	13.531	-0.158	ug/L	59.244
|	Se	77	2867.776	2370.118	12.619	ug/L	7.000
⌊	Sr	88	2918104.751	147.670	251.239	ug/L	3.462
⌈	Ag r	107	26.334	31.667	0.000	ug/L	513.335
|	Ag	109	19.000	22.334	0.000	ug/L	457.222
|	Cd r	111	135.287	159.175	0.006	ug/L	73.506
|	Cd	106	-2148.858	-2501.520	-1.282	ug/L	64.884
|	Cd	108	-2248.749	-2616.420	-1.779	ug/L	58.566
|	Cd	114	12.275	10.979	0.001	ug/L	149.740
|	Cd u	111	4.000	6.333	-0.001	ug/L	247.258
|>	In	115	170059.515	211170.792		ug/L	
|	Sb r	123	123.815	48.407	0.028	ug/L	6.980
⌊	Sb	121	161.670	64.334	0.028	ug/L	12.307

Sn	118	114.002	75.334	**0.014**	ug/L	2.892
Sn r	120	170.670	105.668	**0.017**	ug/L	17.675
Ba r	137	156770.434	45.001	**85.378**	ug/L	3.975
Ba	135	90714.610	29.334	**85.738**	ug/L	4.358
> Tb	159	203124.633	246566.473		ug/L	
Tl r	205	263.007	250.007	**0.005**	ug/L	23.555
Tl	203	114.669	88.001	**0.010**	ug/L	33.539
U	238	26696.223	27.667	**1.583**	ug/L	3.993
Pb	208	3812.409	639.017	**0.231**	ug/L	5.357
Na	23	21771288.276	27801.440	**4.757**	mg/L	3.109
Mg	24	11760304.159	465.019	**3.624**	mg/L	2.617
K	39	5712228.421	632805.158	**0.693**	mg/L	3.636
Ca	44	3425876.076	13238.849	**16.035**	mg/L	3.439
Fe	54	67866.690	26822.312	**0.089**	mg/L	4.716
> Sc-1	45	335883.233	394877.015		ug/L	
Kr	83	150.336	169.004		ug/L	
Cl	35	29343911.969	30269094.238		mg/L	
C	12	379676.474	349975.208		mg/L	
Y	89	165473.566	202348.465		ug/L	
Br	79	1450.485	2134.984	**-1.497**	ug/L	5.423
Br	81	12916.965	16210.893	**-1.875**	ug/L	23.002
> Ge-1	72	93345.554	113753.819		ug/L	
Ru	99	0.667	2.667		ug/L	
Pd	105	1902.254	2210.006		ug/L	
Ho	165	197429.932	240288.136		ug/L	
Th	232	375.680	112.002	**0.015**	ug/L	10.080
Mo	95	354.678	101.002	**0.151**	ug/L	8.227
Mo	97	233.006	65.668	**0.158**	ug/L	16.108
Mo r	98	570.843	146.375	**0.152**	ug/L	5.773
Rh	103	102.668	8.000		ug/L	
> In-1	115	170059.515	211170.792		ug/L	
Ti	47	409.348	229.006		ug/L	
Li	7	34687.741	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: BB20707-MS1

Sample Description:
Autosampler Position: 42
Sample Date/Time: Thursday, February 09, 2012 11:58:12
Dataset File: C:\Elandata\Dataset\EL120209\BB20707-MS1.040
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	686.704	2.667	1.965	ug/L	6.558
|>	Li u	6	369332.876	393432.269		ug/L	
⌞	Li	6	364540.539	391219.680		ug/L	
⌜	Be	9	686.704	2.667	2.219	ug/L	6.945
|	B	11	12110.649	102.002	29.846	ug/L	2.324
|	Al	27	374367.616	1604.517	84.562	ug/L	4.418
|>	Sc	45	335940.471	394877.015		ug/L	
|	V r	51	139298.671	-675.869	20.319	ug/L	5.637
|	V u	51	261062.755	102913.850	24.964	ug/L	5.498
|	Cr r	52	127318.204	10226.564	20.638	ug/L	4.808
|	Cr	53	55168.446	35789.841	37.266	ug/L	8.093
|	Mn	55	195909.986	451.684	21.216	ug/L	3.705
|	Co	59	129791.517	53.667	20.276	ug/L	4.056
|	Ni r	60	26873.170	53.667	20.368	ug/L	4.526
|	Ni	62	3945.719	93.001	20.445	ug/L	4.246
|	Cu r	63	58764.072	196.671	21.792	ug/L	4.630
⌞	Cu	65	26999.272	106.668	21.509	ug/L	4.229
⌜	Zn r	66	15936.994	202.338	21.098	ug/L	4.279
|	Zn	67	5922.672	1698.540	32.738	ug/L	1.595
|	Zn	68	14016.907	310.676	25.247	ug/L	4.460
|>	Ge	72	92817.614	113753.819		ug/L	
|	As r	75	20233.084	-197.552	21.395	ug/L	4.619
|	As u	75	28099.225	7220.131	24.737	ug/L	6.547
|	Se r	82	2196.069	13.531	20.740	ug/L	4.807
|	Se	77	4504.940	2370.118	35.373	ug/L	7.161
⌞	Sr	88	3127209.710	147.670	270.935	ug/L	6.728
⌜	Ag r	107	9804.349	31.667	2.037	ug/L	4.907
|	Ag	109	9244.648	22.334	2.008	ug/L	3.874
|	Cd r	111	2509.178	159.175	2.007	ug/L	4.070
|	Cd	106	-1950.476	-2501.520	0.729	ug/L	126.848
|	Cd	108	-2037.682	-2616.420	1.033	ug/L	104.024
|	Cd	114	5562.542	10.979	2.040	ug/L	5.479
|	Cd u	111	2458.751	6.333	2.058	ug/L	4.362
|>	In	115	171106.639	211170.792		ug/L	
|	Sb r	123	63485.940	48.407	20.969	ug/L	5.111
⌞	Sb	121	83204.425	64.334	20.851	ug/L	4.113

⌈	Sn	118	71193.328	75.334	**19.671**	ug/L	5.302
|	Sn r	120	97802.804	105.668	**20.015**	ug/L	4.234
|	Ba r	137	306314.852	45.001	**168.370**	ug/L	5.195
|	Ba	135	176057.684	29.334	**167.950**	ug/L	5.528
|>	Tb	159	201361.106	246566.473		ug/L	
|	Tl r	205	205154.222	250.007	**19.203**	ug/L	3.440
|	Tl	203	83064.638	88.001	**19.212**	ug/L	2.831
|	U	238	358011.399	27.667	**21.435**	ug/L	4.711
⌊	Pb	208	288985.247	639.017	**20.477**	ug/L	4.675
⌈	Na	23	23279851.621	27801.440	**5.086**	mg/L	3.734
|	Mg	24	12997912.019	465.019	**4.005**	mg/L	4.262
|	K	39	12053312.003	632805.158	**1.542**	mg/L	4.149
|	Ca	44	3438548.933	13238.849	**16.093**	mg/L	4.038
|	Fe	54	160948.587	26822.312	**0.273**	mg/L	4.593
⌊>	Sc-1	45	335940.471	394877.015		ug/L	
	Kr	83	150.670	169.004		ug/L	
	Cl	35	28653578.454	30269094.238		mg/L	
	C	12	377622.370	349975.208		mg/L	
	Y	89	164316.424	202348.465		ug/L	
⌈	Br	79	2586.794	2134.984	**4.223**	ug/L	10.484
|	Br	81	14217.603	16210.893	**4.850**	ug/L	13.434
⌊>	Ge-1	72	92817.614	113753.819		ug/L	
	Ru	99	5.333	2.667		ug/L	
	Pd	105	1919.926	2210.006		ug/L	
	Ho	165	192503.792	240288.136		ug/L	
	Th	232	654.368	112.002	**0.030**	ug/L	18.447
⌈	Mo	95	37511.029	101.002	**20.572**	ug/L	4.696
|	Mo	97	23696.730	65.668	**20.648**	ug/L	5.559
|	Mo r	98	62288.389	146.375	**20.737**	ug/L	5.616
|	Rh	103	107.335	8.000		ug/L	
⌊>	In-1	115	171106.639	211170.792		ug/L	
	Ti	47	10419.828	229.006		ug/L	
	Li	7	59091.709	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ba r 137 Upper, S, EEE	Ba r 137	Sample greater than CLM3
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-05

Sample Description:
Autosampler Position: 43
Sample Date/Time: Thursday, February 09, 2012 12:03:29
Dataset File: C:\Elandata\Dataset\EL120209\1202003-05.041
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.333	2.667	-0.003	ug/L	129.007
|>	Li u	6	371288.441	393432.269		ug/L	
⌊	Li	6	369229.359	391219.680		ug/L	
⌈	Be	9	1.333	2.667	-0.003	ug/L	160.058
|	B	11	386.014	102.002	0.732	ug/L	9.676
|	Al	27	3764.959	1604.517	0.534	ug/L	3.686
|>	Sc	45	339824.528	394877.015		ug/L	
|	V r	51	-577.209	-675.869	0.001	ug/L	8011.588
|	V u	51	120381.565	102913.850	4.524	ug/L	3.687
|	Cr r	52	10609.752	10226.564	0.311	ug/L	4.331
|	Cr	53	41329.826	35789.841	15.684	ug/L	4.165
|	Mn	55	657.701	451.684	0.029	ug/L	7.223
|	Co	59	53.001	53.667	0.001	ug/L	187.409
|	Ni r	60	85.335	53.667	0.029	ug/L	33.067
|	Ni	62	91.001	93.001	0.057	ug/L	75.804
|	Cu r	63	978.072	196.671	0.297	ug/L	0.487
⌊	Cu	65	441.017	106.668	0.276	ug/L	4.178
⌈	Zn r	66	714.374	202.338	0.699	ug/L	7.559
|	Zn	67	2774.195	1698.540	9.265	ug/L	3.804
|	Zn	68	776.380	310.676	0.905	ug/L	6.835
|>	Ge	72	96438.396	113753.819		ug/L	
|	As r	75	-182.744	-197.552	-0.015	ug/L	755.676
|	As u	75	8168.083	7220.131	2.194	ug/L	4.158
|	Se r	82	-5.047	13.531	-0.151	ug/L	147.862
|	Se	77	2600.944	2370.118	7.829	ug/L	8.952
⌊	Sr	88	590.029	147.670	0.039	ug/L	21.828
⌈	Ag r	107	23.334	31.667	-0.001	ug/L	213.384
|	Ag	109	24.334	22.334	0.001	ug/L	58.626
|	Cd r	111	148.013	159.175	0.010	ug/L	202.600
|	Cd	106	-2074.532	-2501.520	0.557	ug/L	113.839
|	Cd	108	-2190.449	-2616.420	0.524	ug/L	216.947
|	Cd	114	9.887	10.979	0.000	ug/L	858.916
|	Cd u	111	5.000	6.333	-0.000	ug/L	6.856
|>	In	115	180369.200	211170.792		ug/L	
|	Sb r	123	58.825	48.407	0.005	ug/L	34.247
⌊	Sb	121	59.001	64.334	0.001	ug/L	90.898

⌈	Sn	118	153.336	75.334	**0.024**	ug/L	38.182
|	Sn r	120	210.338	105.668	**0.024**	ug/L	33.728
|	Ba r	137	98.002	45.001	**0.031**	ug/L	39.296
|	Ba	135	62.668	29.334	**0.034**	ug/L	14.657
|>	Tb	159	210414.290	246566.473		ug/L	
|	Tl r	205	1573.868	250.007	**0.122**	ug/L	56.165
|	Tl	203	673.041	88.001	**0.133**	ug/L	57.516
|	U	238	116.002	27.667	**0.005**	ug/L	48.857
⌊	Pb	208	3075.935	639.017	**0.172**	ug/L	2.959
⌈	Na	23	38478.735	27801.440	**0.003**	mg/L	4.574
|	Mg	24	3386.121	465.019	**0.001**	mg/L	15.252
|	K	39	566359.012	632805.158	**0.003**	mg/L	24.596
|	Ca	44	11697.338	13238.849	**0.001**	mg/L	16.058
|	Fe	54	25059.855	26822.312	**0.004**	mg/L	18.803
⌊>	Sc-1	45	339824.528	394877.015		ug/L	
	Kr	83	158.670	169.004		ug/L	
	Cl	35	28088678.087	30269094.238		mg/L	
	C	12	383422.040	349975.208		mg/L	
	Y	89	173561.350	202348.465		ug/L	
⌈	Br	79	1007.409	2134.984	**-3.858**	ug/L	4.425
⌊	Br	81	13178.411	16210.893	**-2.658**	ug/L	20.153
⌊>	Ge-1	72	96438.396	113753.819		ug/L	
	Ru	99	1.333	2.667		ug/L	
	Pd	105	1850.241	2210.006		ug/L	
	Ho	165	202187.609	240288.136		ug/L	
	Th	232	181.004	112.002	**0.004**	ug/L	28.289
⌈	Mo	95	136.003	101.002	**0.026**	ug/L	61.953
|	Mo	97	91.335	65.668	**0.029**	ug/L	39.340
⌊	Mo r	98	223.081	146.375	**0.031**	ug/L	51.196
|	Rh	103	4.667	8.000		ug/L	
⌊>	In-1	115	180369.200	211170.792		ug/L	
	Ti	47	156.336	229.006		ug/L	
	Li	7	25389.427	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-06

Sample Description:
Autosampler Position: 44
Sample Date/Time: Thursday, February 09, 2012 12:08:45
Dataset File: C:\Elandata\Dataset\EL120209\1202003-06.042
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	2.000	2.667	-0.002	ug/L	150.570
|>	Li u	6	384900.163	393432.269		ug/L	
⌊	Li	6	382105.940	391219.680		ug/L	
⌈	Be	9	2.000	2.667	-0.001	ug/L	375.905
|	B	11	4858.591	102.002	11.871	ug/L	9.997
|	Al	27	3833.994	1604.517	0.561	ug/L	3.944
|>	Sc	45	335304.667	394877.015		ug/L	
|	V r	51	-60.841	-675.869	0.076	ug/L	197.998
|	V u	51	131209.838	102913.850	6.317	ug/L	7.072
|	Cr r	52	10806.027	10226.564	0.370	ug/L	5.503
|	Cr	53	45144.581	35789.841	22.279	ug/L	7.605
|	Mn	55	2429.742	451.684	0.222	ug/L	7.977
|	Co	59	174.337	53.667	0.020	ug/L	9.189
|	Ni r	60	746.710	53.667	0.533	ug/L	6.763
|	Ni	62	88.668	93.001	0.051	ug/L	106.432
|	Cu r	63	2011.283	196.671	0.687	ug/L	6.175
⌊	Cu	65	968.071	106.668	0.703	ug/L	7.295
⌈	Zn r	66	424.349	202.338	0.346	ug/L	2.381
|	Zn	67	3107.992	1698.540	12.399	ug/L	1.618
|	Zn	68	1611.519	310.676	2.487	ug/L	6.774
|>	Ge	72	92934.630	113753.819		ug/L	
|	As r	75	27.319	-197.552	0.197	ug/L	32.051
|	As u	75	9959.877	7220.131	4.516	ug/L	4.380
|	Se r	82	11.768	13.531	0.007	ug/L	2307.748
|	Se	77	3145.624	2370.118	16.607	ug/L	8.578
⌊	Sr	88	7433359.079	147.670	643.048	ug/L	8.946
⌈	Ag r	107	30.000	31.667	0.001	ug/L	71.471
|	Ag	109	16.000	22.334	-0.001	ug/L	79.604
|	Cd r	111	143.672	159.175	0.005	ug/L	231.883
|	Cd	106	-2587.270	-2501.520	-3.817	ug/L	19.183
|	Cd	108	-2682.563	-2616.420	-4.981	ug/L	17.942
|	Cd	114	10.179	10.979	0.000	ug/L	728.437
|	Cd u	111	5.000	6.333	-0.000	ug/L	203.317
|>	In	115	182146.129	211170.792		ug/L	
|	Sb r	123	105.924	48.407	0.020	ug/L	24.718
⌊	Sb	121	86.001	64.334	0.007	ug/L	62.770

⌈	Sn	118	130.002	75.334	**0.017**	ug/L	7.161
|	Sn r	120	184.004	105.668	**0.018**	ug/L	20.836
|	Ba r	137	134302.135	45.001	**70.406**	ug/L	9.342
|	Ba	135	78095.087	29.334	**71.059**	ug/L	8.516
|>	Tb	159	210901.814	246566.473		ug/L	
|	Tl r	205	444.017	250.007	**0.021**	ug/L	5.559
|	Tl	203	186.671	88.001	**0.025**	ug/L	11.881
|	U	238	10606.119	27.667	**0.605**	ug/L	8.784
⌊	Pb	208	783.690	639.017	**0.016**	ug/L	10.617
⌈	Na	23	15930260.408	27801.440	**3.486**	mg/L	7.021
|	Mg	24	12686893.111	465.019	**3.918**	mg/L	8.205
|	K	39	4529531.096	632805.158	**0.536**	mg/L	8.170
|	Ca	44	3308174.428	13238.849	**15.513**	mg/L	8.153
|	Fe	54	25498.477	26822.312	**0.005**	mg/L	34.007
⌊>	Sc-1	45	335304.667	394877.015		ug/L	
	Kr	83	141.669	169.004		ug/L	
	Cl	35	31036131.477	30269094.238		mg/L	
	C	12	394227.738	349975.208		mg/L	
	Y	89	175204.939	202348.465		ug/L	
⌈	Br	79	1218.775	2134.984	**-2.621**	ug/L	4.125
|	Br	81	12781.739	16210.893	**-2.258**	ug/L	31.746
⌊>	Ge-1	72	92934.630	113753.819		ug/L	
	Ru	99	0.667	2.667		ug/L	
	Pd	105	2268.357	2210.006		ug/L	
	Ho	165	204011.702	240288.136		ug/L	
	Th	232	220.672	112.002	**0.006**	ug/L	39.585
⌈	Mo	95	699.372	101.002	**0.316**	ug/L	13.243
|	Mo	97	438.350	65.668	**0.313**	ug/L	7.045
|	Mo r	98	1132.837	146.375	**0.315**	ug/L	6.062
|	Rh	103	258.340	8.000		ug/L	
⌊>	In-1	115	182146.129	211170.792		ug/L	
	Ti	47	431.016	229.006		ug/L	
	Li	7	34454.045	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-08

Sample Description:
Autosampler Position: 46
Sample Date/Time: Thursday, February 09, 2012 12:19:21
Dataset File: C:\Elandata\Dataset\EL120209\1202003-08.044
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	0.333	2.667	-0.006	ug/L	27.079
|>	Li u	6	367381.055	393432.269		ug/L	
⌊	Li	6	364634.109	391219.680		ug/L	
⌈	Be	9	0.333	2.667	-0.006	ug/L	30.985
|	B	11	3724.277	102.002	9.174	ug/L	10.954
|	Al	27	3578.536	1604.517	0.514	ug/L	10.238
|>	Sc	45	331032.087	394877.015		ug/L	
|	V r	51	550.841	-675.869	0.163	ug/L	92.151
|	V u	51	131404.101	102913.850	6.593	ug/L	8.999
|	Cr r	52	10770.643	10226.564	0.388	ug/L	7.712
|	Cr	53	45200.228	35789.841	23.260	ug/L	9.630
|	Mn	55	836.054	451.684	0.050	ug/L	3.295
|	Co	59	183.337	53.667	0.022	ug/L	15.138
|	Ni r	60	783.048	53.667	0.569	ug/L	9.409
|	Ni	62	96.335	93.001	0.098	ug/L	59.358
|	Cu r	63	2701.169	196.671	0.958	ug/L	8.484
⌊	Cu	65	1298.123	106.668	0.981	ug/L	7.861
⌈	Zn r	66	460.352	202.338	0.402	ug/L	8.922
|	Zn	67	2995.280	1698.540	11.865	ug/L	5.941
|	Zn	68	1743.882	310.676	2.771	ug/L	7.557
|>	Ge	72	91774.851	113753.819		ug/L	
|	As r	75	88.369	-197.552	0.263	ug/L	33.939
|	As u	75	10573.709	7220.131	5.351	ug/L	11.283
|	Se r	82	-2.310	13.531	-0.125	ug/L	166.814
|	Se	77	3299.626	2370.118	19.311	ug/L	12.625
⌊	Sr	88	2800987.464	147.670	245.449	ug/L	8.721
⌈	Ag r	107	21.667	31.667	-0.001	ug/L	119.692
|	Ag	109	14.667	22.334	-0.001	ug/L	141.727
|	Cd r	111	128.598	159.175	-0.000	ug/L	3209.646
|	Cd	106	-2200.259	-2501.520	-1.656	ug/L	49.951
|	Cd	108	-2288.529	-2616.420	-2.120	ug/L	44.239
|	Cd	114	11.720	10.979	0.001	ug/L	155.453
|	Cd u	111	5.000	6.333	-0.000	ug/L	1477.704
|>	In	115	170963.224	211170.792		ug/L	
|	Sb r	123	138.112	48.407	0.033	ug/L	6.604
⌊	Sb	121	134.336	64.334	0.021	ug/L	8.371

⌈	Sn	118	85.001	75.334	**0.007**	ug/L	38.178
|	Sn r	120	124.336	105.668	**0.008**	ug/L	25.107
|	Ba r	137	149658.151	45.001	**82.322**	ug/L	9.165
|	Ba	135	86108.102	29.334	**82.199**	ug/L	8.992
|>	Tb	159	201222.801	246566.473		ug/L	
|	Tl r	205	252.007	250.007	**0.004**	ug/L	51.672
|	Tl	203	116.002	88.001	**0.010**	ug/L	32.687
|	U	238	25875.852	27.667	**1.549**	ug/L	8.151
⌊	Pb	208	1083.042	639.017	**0.040**	ug/L	7.408
⌈	Na	23	21087431.192	27801.440	**4.678**	mg/L	8.072
|	Mg	24	11423271.805	465.019	**3.574**	mg/L	8.160
|	K	39	5510725.510	632805.158	**0.677**	mg/L	7.737
|	Ca	44	3287467.222	13238.849	**15.620**	mg/L	8.282
|	Fe	54	24747.980	26822.312	**0.005**	mg/L	39.529
⌊>	Sc-1	45	331032.087	394877.015		ug/L	
	Kr	83	150.670	169.004		ug/L	
	Cl	35	28871958.468	30269094.238		mg/L	
	C	12	372233.090	349975.208		mg/L	
	Y	89	164720.960	202348.465		ug/L	
⌈	Br	79	1325.461	2134.984	**-2.003**	ug/L	16.614
|	Br	81	12806.116	16210.893	**-1.340**	ug/L	132.130
⌊>	Ge-1	72	91774.851	113753.819		ug/L	
	Ru	99	0.667	2.667		ug/L	
	Pd	105	1935.263	2210.006		ug/L	
	Ho	165	194445.048	240288.136		ug/L	
	Th	232	150.670	112.002	**0.002**	ug/L	68.636
⌈	Mo	95	364.346	101.002	**0.155**	ug/L	6.631
|	Mo	97	241.673	65.668	**0.165**	ug/L	9.526
|	Mo r	98	596.661	146.375	**0.160**	ug/L	11.558
|	Rh	103	88.668	8.000		ug/L	
⌊>	In-1	115	170963.224	211170.792		ug/L	
	Ti	47	352.345	229.006		ug/L	
	Li	7	33871.097	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-07

Sample Description:
Autosampler Position: 45
Sample Date/Time: Thursday, February 09, 2012 12:14:03
Dataset File: C:\Elandata\Dataset\EL120209\1202003-07.043
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.333	2.667	-0.003	ug/L	121.170
|>	Li u	6	380750.733	393432.269		ug/L	
⌊	Li	6	377969.466	391219.680		ug/L	
⌈	Be	9	1.333	2.667	-0.003	ug/L	159.111
|	B	11	4665.128	102.002	11.326	ug/L	3.148
|	Al	27	4590.082	1604.517	0.727	ug/L	3.079
|>	Sc	45	337162.148	394877.015		ug/L	
|	V r	51	-1066.666	-675.869	-0.070	ug/L	130.118
|	V u	51	125051.592	102913.850	5.331	ug/L	3.143
|	Cr r	52	10524.969	10226.564	0.311	ug/L	3.293
|	Cr	53	43392.489	35789.841	19.276	ug/L	2.889
|	Mn	55	3447.474	451.684	0.331	ug/L	3.360
|	Co	59	176.004	53.667	0.020	ug/L	19.915
|	Ni r	60	693.038	53.667	0.490	ug/L	3.658
|	Ni	62	82.335	93.001	0.016	ug/L	265.635
|	Cu r	63	1789.560	196.671	0.601	ug/L	5.938
⌊	Cu	65	846.722	106.668	0.602	ug/L	9.942
⌈	Zn r	66	425.683	202.338	0.345	ug/L	12.238
|	Zn	67	2899.575	1698.540	10.798	ug/L	0.395
|	Zn	68	1465.154	310.676	2.206	ug/L	6.467
|>	Ge	72	93373.290	113753.819		ug/L	
|	As r	75	-274.653	-197.552	-0.117	ug/L	203.153
|	As u	75	9516.312	7220.131	3.973	ug/L	3.631
|	Se r	82	9.792	13.531	-0.014	ug/L	1319.146
|	Se	77	3088.952	2370.118	15.634	ug/L	4.006
⌊	Sr	88	7025579.088	147.670	604.904	ug/L	4.390
⌈	Ag r	107	31.667	31.667	0.001	ug/L	110.347
|	Ag	109	20.000	22.334	0.000	ug/L	500.248
|	Cd r	111	152.724	159.175	0.012	ug/L	13.116
|	Cd	106	-2580.459	-2501.520	-3.701	ug/L	4.101
|	Cd	108	-2685.329	-2616.420	-4.936	ug/L	3.487
|	Cd	114	12.100	10.979	0.001	ug/L	221.760
|	Cd u	111	6.667	6.333	0.001	ug/L	97.191
|>	In	115	182562.476	211170.792		ug/L	
|	Sb r	123	90.845	48.407	0.015	ug/L	36.501
⌊	Sb	121	85.668	64.334	0.007	ug/L	18.393

⌈	Sn	118	95.668	75.334	**0.008**	ug/L	24.979
|	Sn r	120	136.669	105.668	**0.009**	ug/L	14.052
|	Ba r	137	123290.663	45.001	**63.710**	ug/L	2.948
|	Ba	135	71305.387	29.334	**63.946**	ug/L	1.393
|>	Tb	159	214042.510	246566.473		ug/L	
|	Tl r	205	327.010	250.007	**0.010**	ug/L	11.646
|	Tl	203	130.669	88.001	**0.012**	ug/L	17.372
|	U	238	9599.754	27.667	**0.539**	ug/L	3.521
⌊	Pb	208	543.680	639.017	**-0.001**	ug/L	200.578
⌈	Na	23	15054026.260	27801.440	**3.276**	mg/L	3.460
|	Mg	24	11646811.512	465.019	**3.577**	mg/L	4.358
|	K	39	4254772.269	632805.158	**0.496**	mg/L	3.783
|	Ca	44	3015112.173	13238.849	**14.058**	mg/L	4.142
|	Fe	54	25796.368	26822.312	**0.006**	mg/L	29.109
⌊>	Sc-1	45	337162.148	394877.015		ug/L	
	Kr	83	139.003	169.004		ug/L	
	Cl	35	27888346.008	30269094.238		mg/L	
	C	12	382576.420	349975.208		mg/L	
	Y	89	175713.221	202348.465		ug/L	
⌈	Br	79	1321.127	2134.984	**-2.141**	ug/L	6.198
|	Br	81	12896.266	16210.893	**-1.998**	ug/L	17.928
⌊>	Ge-1	72	93373.290	113753.819		ug/L	
	Ru	99	1.333	2.667		ug/L	
	Pd	105	2270.691	2210.006		ug/L	
	Ho	165	206836.273	240288.136		ug/L	
	Th	232	168.670	112.002	**0.003**	ug/L	27.415
⌈	Mo	95	665.702	101.002	**0.298**	ug/L	2.925
|	Mo	97	409.348	65.668	**0.288**	ug/L	10.053
|	Mo r	98	1088.314	146.375	**0.301**	ug/L	4.121
|	Rh	103	221.672	8.000		ug/L	
⌊>	In-1	115	182562.476	211170.792		ug/L	
	Ti	47	387.347	229.006		ug/L	
	Li	7	34294.293	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Thursday, February 09, 2012 12:24:34
Dataset File: C:\Elandata\Dataset\EL120209\QC Std 2.045
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	16328.814	2.667	49.410	ug/L	2.000
|>	Li u	6	350495.090	393432.269		ug/L	
⌊	Li	6	348562.929	391219.680		ug/L	
⌈	Be	9	16328.814	2.667	52.559	ug/L	1.912
|	B	11	20734.116	102.002	50.909	ug/L	1.246
|	Al	27	228903.389	1604.517	51.230	ug/L	1.708
|>	Sc	45	338166.876	394877.015		ug/L	
|	V r	51	346188.771	-675.869	50.029	ug/L	2.235
|	V u	51	450322.952	102913.850	51.753	ug/L	1.935
|	Cr r	52	298212.747	10226.564	50.018	ug/L	2.064
|	Cr	53	68242.739	35789.841	56.277	ug/L	1.975
|	Mn	55	463578.693	451.684	49.918	ug/L	0.129
|	Co	59	320907.284	53.667	49.803	ug/L	0.573
|	Ni r	60	65749.462	53.667	49.543	ug/L	0.468
|	Ni	62	9464.581	93.001	49.290	ug/L	1.371
|	Cu r	63	134222.620	196.671	49.513	ug/L	0.450
⌊	Cu	65	62321.408	106.668	49.405	ug/L	0.981
⌈	Zn r	66	38401.013	202.338	50.991	ug/L	0.623
|	Zn	67	9162.546	1698.540	55.940	ug/L	0.709
|	Zn	68	28233.334	310.676	51.169	ug/L	0.788
|>	Ge	72	93065.570	113753.819		ug/L	
|	As r	75	48364.034	-197.552	50.754	ug/L	1.768
|	As u	75	52711.856	7220.131	51.974	ug/L	2.037
|	Se r	82	5430.440	13.531	51.287	ug/L	2.265
|	Se	77	6069.733	2370.118	56.669	ug/L	5.791
⌊	Sr	88	587693.590	147.670	50.742	ug/L	0.528
⌈	Ag r	107	240526.958	31.667	50.359	ug/L	0.036
|	Ag	109	229931.457	22.334	50.286	ug/L	0.279
|	Cd r	111	59423.472	159.175	50.244	ug/L	0.497
|	Cd	106	3270.634	-2501.520	50.234	ug/L	2.652
|	Cd	108	1986.430	-2616.420	51.219	ug/L	1.225
|	Cd	114	136171.492	10.979	50.264	ug/L	0.377
|	Cd u	111	59663.416	6.333	50.302	ug/L	0.409
|>	In	115	170189.530	211170.792		ug/L	
|	Sb r	123	151197.591	48.407	50.213	ug/L	0.473
⌊	Sb	121	198577.178	64.334	50.039	ug/L	0.864

⌈	Sn	118	178801.404	75.334	**49.433**	ug/L	0.290
|	Sn r	120	245984.414	105.668	**50.379**	ug/L	1.594
|	Ba r	137	91818.348	45.001	**50.462**	ug/L	1.265
|	Ba	135	52742.739	29.334	**50.307**	ug/L	1.975
|>	Tb	159	201251.462	246566.473		ug/L	
|	Tl r	205	511514.371	250.007	**47.913**	ug/L	2.598
|	Tl	203	207911.767	88.001	**48.119**	ug/L	2.785
|	U	238	830397.116	27.667	**49.725**	ug/L	1.134
L	Pb	208	704124.990	639.017	**49.954**	ug/L	0.649
⌈	Na	23	25017268.874	27801.440	**5.429**	mg/L	0.796
|	Mg	24	17620625.868	465.019	**5.393**	mg/L	1.326
|	K	39	40282674.328	632805.158	**5.286**	mg/L	0.440
|	Ca	44	1037231.786	13238.849	**4.784**	mg/L	0.542
|	Fe	54	2774497.811	26822.312	**5.403**	mg/L	1.008
L>	Sc-1	45	338166.876	394877.015		ug/L	
	Kr	83	150.003	169.004		ug/L	
	Cl	35	28693735.109	30269094.238		mg/L	
	C	12	398134.801	349975.208		mg/L	
	Y	89	166690.481	202348.465		ug/L	
⌈	Br	79	11875.950	2134.984	**50.455**	ug/L	1.886
|	Br	81	23776.933	16210.893	**51.330**	ug/L	5.987
L>	Ge-1	72	93065.570	113753.819		ug/L	
	Ru	99	13.000	2.667		ug/L	
	Pd	105	1804.897	2210.006		ug/L	
	Ho	165	193228.184	240288.136		ug/L	
	Th	232	782978.122	112.002	**43.394**	ug/L	1.195
⌈	Mo	95	91527.934	101.002	**50.515**	ug/L	0.998
|	Mo	97	57528.568	65.668	**50.445**	ug/L	0.840
|	Mo r	98	150631.572	146.375	**50.457**	ug/L	1.508
|	Rh	103	49.334	8.000		ug/L	
L>	In-1	115	170189.530	211170.792		ug/L	
	Ti	47	204.671	229.006		ug/L	
	Li	7	23824.430	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
QC Std 2	Cr	53	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Zn	67	CCV (CLC) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 4

Sample Description:
Autosampler Position: 1
Sample Date/Time: Thursday, February 09, 2012 12:29:46
Dataset File: C:\Elandata\Dataset\EL120209\QC Std 4.046
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	2.000	2.667	-0.001	ug/L	6.704
|>	Li u	6	355798.280	393432.269		ug/L	
L	Li	6	353823.272	391219.680		ug/L	
⌈	Be	9	2.000	2.667	-0.001	ug/L	14.379
|	B	11	244.006	102.002	0.394	ug/L	42.432
|	Al	27	1272.785	1604.517	-0.020	ug/L	46.165
|>	Sc	45	334992.736	394877.015		ug/L	
|	V r	51	-303.787	-675.869	0.042	ug/L	500.192
|	V u	51	100894.295	102913.850	1.957	ug/L	13.924
|	Cr r	52	8649.951	10226.564	-0.005	ug/L	579.991
|	Cr	53	34574.000	35789.841	6.344	ug/L	26.461
|	Mn	55	394.014	451.684	0.001	ug/L	126.118
|	Co	59	64.668	53.667	0.003	ug/L	43.936
|	Ni r	60	50.334	53.667	0.004	ug/L	118.211
|	Ni	62	76.001	93.001	-0.016	ug/L	291.130
|	Cu r	63	142.669	196.671	-0.009	ug/L	130.050
L	Cu	65	87.001	106.668	-0.003	ug/L	114.363
⌈	Zn r	66	110.669	202.338	-0.075	ug/L	10.888
|	Zn	67	2574.124	1698.540	8.298	ug/L	8.637
|	Zn	68	326.010	310.676	0.124	ug/L	41.359
|>	Ge	72	94201.929	113753.819		ug/L	
|	As r	75	60.242	-197.552	0.231	ug/L	39.979
|	As u	75	5893.989	7220.131	-0.095	ug/L	373.480
|	Se r	82	2.957	13.531	-0.079	ug/L	412.350
|	Se	77	1895.052	2370.118	-0.927	ug/L	193.281
L	Sr	88	278.341	147.670	0.013	ug/L	16.305
⌈	Ag r	107	50.334	31.667	0.005	ug/L	85.310
|	Ag	109	49.001	22.334	0.006	ug/L	42.181
|	Cd r	111	136.004	159.175	0.002	ug/L	165.317
|	Cd	106	-2084.957	-2501.520	0.183	ug/L	166.678
|	Cd	108	-2178.263	-2616.420	0.282	ug/L	131.251
|	Cd	114	17.606	10.979	0.003	ug/L	51.784
|	Cd u	111	10.667	6.333	0.004	ug/L	58.789
|>	In	115	177691.210	211170.792		ug/L	
|	Sb r	123	41.783	48.407	0.000	ug/L	1242.091
L	Sb	121	56.001	64.334	0.000	ug/L	376.019

⌈	Sn	118	188.671	75.334	**0.034**	ug/L	39.255
|	Sn r	120	285.342	105.668	**0.039**	ug/L	53.339
|	Ba r	137	52.667	45.001	**0.008**	ug/L	33.852
|	Ba	135	26.000	29.334	**0.001**	ug/L	650.117
|>	Tb	159	207538.532	246566.473		ug/L	
|	Tl r	205	4471.510	250.007	**0.388**	ug/L	80.290
|	Tl	203	1841.324	88.001	**0.398**	ug/L	79.982
|	U	238	169.670	27.667	**0.009**	ug/L	48.352
L	Pb	208	445.010	639.017	**-0.006**	ug/L	26.176
⌈	Na	23	26729.630	27801.440	**0.001**	mg/L	24.082
|	Mg	24	1689.537	465.019	**0.000**	mg/L	17.446
|	K	39	549678.085	632805.158	**0.002**	mg/L	53.977
|	Ca	44	9617.104	13238.849	**-0.008**	mg/L	10.924
|	Fe	54	23730.054	26822.312	**0.002**	mg/L	42.637
L>	Sc-1	45	334992.736	394877.015		ug/L	
	Kr	83	158.337	169.004		ug/L	
	Cl	35	28215690.430	30269094.238		mg/L	
	C	12	334801.896	349975.208		mg/L	
	Y	89	171468.617	202348.465		ug/L	
⌈	Br	79	2028.621	2134.984	**1.282**	ug/L	3.270
|	Br	81	13886.335	16210.893	**2.230**	ug/L	90.624
L>	Ge-1	72	94201.929	113753.819		ug/L	
	Ru	99	1.667	2.667		ug/L	
	Pd	105	1840.239	2210.006		ug/L	
	Ho	165	199638.551	240288.136		ug/L	
	Th	232	4596.682	112.002	**0.249**	ug/L	54.968
⌈	Mo	95	196.338	101.002	**0.059**	ug/L	66.845
|	Mo	97	131.336	65.668	**0.064**	ug/L	51.928
|	Mo r	98	311.492	146.375	**0.060**	ug/L	47.230
|	Rh	103	4.667	8.000		ug/L	
L>	In-1	115	177691.210	211170.792		ug/L	
	Ti	47	152.670	229.006		ug/L	
	Li	7	24352.743	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
QC Std 4	V u	51	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cr	53	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Zn	67	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br	79	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br	81	IBL (LCB) is out of limits (+/- 0.400ug/L)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-09

Sample Description:
Autosampler Position: 47
Sample Date/Time: Thursday, February 09, 2012 12:35:04
Dataset File: C:\Elandata\Dataset\EL120209\1202003-09.047
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.000	2.667	-0.004	ug/L	68.180
|>	Li u	6	362636.511	393432.269		ug/L	
⌊	Li	6	360634.547	391219.680		ug/L	
⌈	Be	9	1.000	2.667	-0.004	ug/L	74.657
|	B	11	164.337	102.002	0.185	ug/L	35.971
|	Al	27	3108.993	1604.517	0.381	ug/L	5.895
|>	Sc	45	342764.724	394877.015		ug/L	
|	V r	51	1406.643	-675.869	0.285	ug/L	27.712
|	V u	51	108097.703	102913.850	2.651	ug/L	17.603
|	Cr r	52	9206.598	10226.564	0.056	ug/L	35.748
|	Cr	53	36620.665	35789.841	8.220	ug/L	16.824
|	Mn	55	443.684	451.684	0.005	ug/L	13.747
|	Co	59	38.667	53.667	-0.001	ug/L	43.612
|	Ni r	60	45.334	53.667	-0.001	ug/L	492.961
|	Ni	62	92.001	93.001	0.059	ug/L	68.299
|	Cu r	63	230.006	196.671	0.022	ug/L	33.088
⌊	Cu	65	106.002	106.668	0.011	ug/L	49.142
⌈	Zn r	66	142.669	202.338	-0.035	ug/L	65.345
|	Zn	67	2709.838	1698.540	9.001	ug/L	4.798
|	Zn	68	359.679	310.676	0.176	ug/L	16.538
|>	Ge	72	95497.157	113753.819		ug/L	
|	As r	75	-22.602	-197.552	0.146	ug/L	158.699
|	As u	75	6538.844	7220.131	0.518	ug/L	39.075
|	Se r	82	6.725	13.531	-0.041	ug/L	586.914
|	Se	77	2099.532	2370.118	1.474	ug/L	48.503
⌊	Sr	88	251.340	147.670	0.011	ug/L	8.747
⌈	Ag r	107	22.667	31.667	-0.001	ug/L	38.388
|	Ag	109	25.000	22.334	0.001	ug/L	116.856
|	Cd r	111	136.626	159.175	0.001	ug/L	1462.705
|	Cd	106	-2073.025	-2501.520	0.538	ug/L	108.711
|	Cd	108	-2175.102	-2616.420	0.659	ug/L	85.614
|	Cd	114	3.591	10.979	-0.002	ug/L	113.651
|	Cd u	111	4.667	6.333	-0.001	ug/L	295.477
|>	In	115	180050.128	211170.792		ug/L	
|	Sb r	123	50.371	48.407	0.003	ug/L	71.293
⌊	Sb	121	57.334	64.334	0.001	ug/L	122.723

⌈	Sn	118	114.669	75.334	**0.013**	ug/L	1.570
|	Sn r	120	161.003	105.668	**0.013**	ug/L	30.697
|	Ba r	137	51.334	45.001	**0.006**	ug/L	14.170
|	Ba	135	27.667	29.334	**0.002**	ug/L	111.933
|>	Tb	159	214847.316	246566.473		ug/L	
|	Tl r	205	586.695	250.007	**0.032**	ug/L	13.767
|	Tl	203	256.340	88.001	**0.039**	ug/L	9.070
|	U	238	49.001	27.667	**0.001**	ug/L	71.741
⌊	Pb	208	382.674	639.017	**-0.012**	ug/L	20.788
⌈	Na	23	92944.008	27801.440	**0.015**	mg/L	6.216
|	Mg	24	1560.174	465.019	**0.000**	mg/L	7.994
|	K	39	555223.487	632805.158	**0.001**	mg/L	70.437
|	Ca	44	10249.593	13238.849	**-0.006**	mg/L	9.162
|	Fe	54	25051.638	26822.312	**0.003**	mg/L	52.992
⌊>	Sc-1	45	342764.724	394877.015		ug/L	
	Kr	83	146.670	169.004		ug/L	
	Cl	35	28916175.908	30269094.238		mg/L	
	C	12	369516.720	349975.208		mg/L	
	Y	89	173127.393	202348.465		ug/L	
⌈	Br	79	989.407	2134.984	**-3.896**	ug/L	11.665
|	Br	81	12975.066	16210.893	**-3.018**	ug/L	18.077
⌊>	Ge-1	72	95497.157	113753.819		ug/L	
	Ru	99	1.333	2.667		ug/L	
	Pd	105	1837.571	2210.006		ug/L	
	Ho	165	204402.740	240288.136		ug/L	
	Th	232	1347.804	112.002	**0.068**	ug/L	30.690
⌈	Mo	95	118.002	101.002	**0.017**	ug/L	51.406
|	Mo	97	77.334	65.668	**0.018**	ug/L	31.297
|	Mo r	98	189.560	146.375	**0.021**	ug/L	35.013
|	Rh	103	6.000	8.000		ug/L	
⌊>	In-1	115	180050.128	211170.792		ug/L	
	Tl	47	179.671	229.006		ug/L	
	Li	7	24685.125	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-10

Sample Description:
Autosampler Position: 48
Sample Date/Time: Thursday, February 09, 2012 12:40:23
Dataset File: C:\Elandata\Dataset\EL120209\1202003-10.048
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	0.667	2.667	-0.005	ug/L	31.726
|>	Li u	6	365251.249	393432.269		ug/L	
⌞	Li	6	362545.222	391219.680		ug/L	
⌜	Be	9	0.667	2.667	-0.005	ug/L	35.575
|	B	11	3521.174	102.002	8.419	ug/L	1.321
|	Al	27	3520.841	1604.517	0.479	ug/L	2.370
|>	Sc	45	340048.105	394877.015		ug/L	
|	V r	51	317.504	-675.869	0.129	ug/L	40.964
|	V u	51	107195.982	102913.850	2.638	ug/L	21.858
|	Cr r	52	9187.578	10226.564	0.065	ug/L	48.745
|	Cr	53	36805.653	35789.841	8.903	ug/L	23.547
|	Mn	55	696.705	451.684	0.033	ug/L	3.011
|	Co	59	185.337	53.667	0.021	ug/L	7.438
|	Ni r	60	783.048	53.667	0.553	ug/L	8.956
|	Ni	62	89.668	93.001	0.050	ug/L	111.644
|	Cu r	63	3500.832	196.671	1.224	ug/L	2.486
⌞	Cu	65	1622.521	106.668	1.208	ug/L	1.773
⌜	Zn r	66	1284.453	202.338	1.472	ug/L	2.298
|	Zn	67	3021.957	1698.540	11.493	ug/L	4.161
|	Zn	68	2318.039	310.676	3.724	ug/L	3.640
|>	Ge	72	94158.067	113753.819		ug/L	
|	As r	75	345.379	-197.552	0.527	ug/L	19.356
|	As u	75	7633.867	7220.131	1.818	ug/L	15.980
|	Se r	82	-6.281	13.531	-0.164	ug/L	138.321
|	Se	77	2337.270	2370.118	5.084	ug/L	19.827
⌞	Sr	88	2782284.323	147.670	237.496	ug/L	1.396
⌜	Ag r	107	25.000	31.667	-0.000	ug/L	825.128
|	Ag	109	20.334	22.334	0.000	ug/L	213.547
|	Cd r	111	127.555	159.175	-0.003	ug/L	86.275
|	Cd	106	-2189.982	-2501.520	-1.134	ug/L	6.923
|	Cd	108	-2276.590	-2616.420	-1.391	ug/L	6.610
|	Cd	114	11.720	10.979	0.001	ug/L	93.755
|	Cd u	111	6.000	6.333	0.001	ug/L	392.649
|>	In	115	174541.227	211170.792		ug/L	
|	Sb r	123	130.821	48.407	0.029	ug/L	1.968
⌞	Sb	121	157.003	64.334	0.026	ug/L	8.354

⌈	Sn	118	85.001	75.334	**0.006**	ug/L	79.083
|	Sn r	120	100.668	105.668	**0.002**	ug/L	93.280
|	Ba r	137	149416.430	45.001	**79.936**	ug/L	1.090
|	Ba	135	85891.459	29.334	**79.744**	ug/L	1.363
|>	Tb	159	206765.799	246566.473		ug/L	
|	Tl r	205	358.679	250.007	**0.014**	ug/L	10.408
|	Tl	203	143.003	88.001	**0.016**	ug/L	23.213
|	U	238	25862.673	27.667	**1.506**	ug/L	1.899
⌊	Pb	208	782.690	639.017	**0.017**	ug/L	7.829
⌈	Na	23	20721472.989	27801.440	**4.471**	mg/L	0.545
|	Mg	24	11242170.477	465.019	**3.422**	mg/L	0.593
|	K	39	5481725.619	632805.158	**0.653**	mg/L	0.551
|	Ca	44	3259159.429	13238.849	**15.063**	mg/L	0.530
|	Fe	54	24321.807	26822.312	**0.002**	mg/L	54.101
⌊>	Sc-1	45	340048.105	394877.015		ug/L	
	Kr	83	147.336	169.004		ug/L	
	Cl	35	28108079.617	30269094.238		mg/L	
	C	12	372184.294	349975.208		mg/L	
	Y	89	169655.998	202348.465		ug/L	
⌈	Br	79	1266.117	2134.984	**-2.466**	ug/L	7.706
|	Br	81	13110.964	16210.893	**-1.480**	ug/L	82.611
⌊>	Ge-1	72	94158.067	113753.819		ug/L	
	Ru	99	1.000	2.667		ug/L	
	Pd	105	1926.594	2210.006		ug/L	
	Ho	165	199153.295	240288.136		ug/L	
	Th	232	816.052	112.002	**0.039**	ug/L	16.969
⌈	Mo	95	383.680	101.002	**0.162**	ug/L	6.387
|	Mo	97	232.673	65.668	**0.153**	ug/L	3.470
|	Mo r	98	617.329	146.375	**0.162**	ug/L	1.708
|	Rh	103	92.001	8.000		ug/L	
⌊>	In-1	115	174541.227	211170.792		ug/L	
	Ti	47	362.012	229.006		ug/L	
	Li	7	33366.547	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Thursday, February 09, 2012 12:45:36
Dataset File: C:\Elandata\Dataset\EL120209\QC Std 2.049
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	16378.918	2.667	49.055	ug/L	0.708
|>	Li u	6	354101.995	393432.269		ug/L	
⌞	Li	6	352140.466	391219.680		ug/L	
⌜	Be	9	16378.918	2.667	51.690	ug/L	1.181
|	B	11	21058.669	102.002	50.697	ug/L	2.096
|	Al	27	228048.072	1604.517	50.038	ug/L	1.472
|>	Sc	45	344892.744	394877.015		ug/L	
|	V r	51	347275.886	-675.869	49.210	ug/L	0.478
|	V u	51	447636.027	102913.850	50.122	ug/L	0.684
|	Cr r	52	299260.670	10226.564	49.189	ug/L	0.889
|	Cr	53	67619.921	35789.841	53.368	ug/L	0.599
|	Mn	55	462518.194	451.684	48.831	ug/L	0.377
|	Co	59	320381.085	53.667	48.750	ug/L	0.258
|	Ni r	60	66403.052	53.667	49.059	ug/L	0.471
|	Ni	62	9485.940	93.001	48.428	ug/L	0.523
|	Cu r	63	135978.430	196.671	49.182	ug/L	0.734
⌞	Cu	65	62963.608	106.668	48.938	ug/L	0.487
⌜	Zn r	66	39000.014	202.338	50.794	ug/L	0.558
|	Zn	67	9278.688	1698.540	55.493	ug/L	2.029
|	Zn	68	28291.218	310.676	50.279	ug/L	0.481
|>	Ge	72	94883.571	113753.819		ug/L	
|	As r	75	48746.146	-197.552	50.171	ug/L	0.482
|	As u	75	52473.565	7220.131	50.585	ug/L	0.130
|	Se r	82	5390.043	13.531	49.915	ug/L	2.379
|	Se	77	5766.126	2370.118	50.971	ug/L	2.234
⌞	Sr	88	592866.457	147.670	50.209	ug/L	0.372
⌜	Ag r	107	240587.090	31.667	49.501	ug/L	1.665
|	Ag	109	230127.771	22.334	49.459	ug/L	1.607
|	Cd r	111	59303.757	159.175	49.272	ug/L	1.193
|	Cd	106	3270.255	-2501.520	49.690	ug/L	1.135
|	Cd	108	1920.645	-2616.420	49.978	ug/L	1.465
|	Cd	114	137975.705	10.979	50.048	ug/L	0.909
|	Cd u	111	59475.984	6.333	49.276	ug/L	1.210
|>	In	115	173193.005	211170.792		ug/L	
|	Sb r	123	151988.774	48.407	49.603	ug/L	1.699
⌞	Sb	121	200666.706	64.334	49.690	ug/L	1.135

⌈	Sn	118	178471.093	75.334	**48.688**	ug/L	0.992
|	Sn r	120	245303.360	105.668	**49.569**	ug/L	1.452
|	Ba r	137	91535.704	45.001	**49.635**	ug/L	1.041
|	Ba	135	52715.544	29.334	**49.607**	ug/L	0.363
|>	Tb	159	203959.996	246566.473		ug/L	
|	Tl r	205	517052.869	250.007	**47.802**	ug/L	4.098
|	Tl	203	209373.839	88.001	**47.827**	ug/L	3.712
|	U	238	828216.223	27.667	**48.937**	ug/L	0.408
⌊	Pb	208	711905.672	639.017	**49.837**	ug/L	1.407
⌈	Na	23	25117548.495	27801.440	**5.344**	mg/L	1.341
|	Mg	24	17703688.587	465.019	**5.313**	mg/L	1.400
|	K	39	40706043.055	632805.158	**5.237**	mg/L	0.532
|	Ca	44	1035615.535	13238.849	**4.683**	mg/L	0.982
|	Fe	54	2786415.580	26822.312	**5.320**	mg/L	0.786
⌊>	Sc-1	45	344892.744	394877.015		ug/L	
	Kr	83	154.336	169.004		ug/L	
	Cl	35	28919334.297	30269094.238		mg/L	
	C	12	396578.774	349975.208		mg/L	
	Y	89	170577.592	202348.465		ug/L	
⌈	Br	79	12017.168	2134.984	**50.014**	ug/L	1.383
|	Br	81	23999.639	16210.893	**50.137**	ug/L	4.638
⌊>	Ge-1	72	94883.571	113753.819		ug/L	
	Ru	99	13.333	2.667		ug/L	
	Pd	105	1812.565	2210.006		ug/L	
	Ho	165	197230.483	240288.136		ug/L	
	Th	232	787828.353	112.002	**43.663**	ug/L	0.944
⌈	Mo	95	91219.952	101.002	**49.475**	ug/L	1.495
|	Mo	97	57901.352	65.668	**49.893**	ug/L	1.364
|	Mo r	98	151838.694	146.375	**49.983**	ug/L	1.804
|	Rh	103	46.334	8.000		ug/L	
⌊>	In-1	115	173193.005	211170.792		ug/L	
	Ti	47	217.672	229.006		ug/L	
	Li	7	24186.539	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
QC Std 2	Zn 67	CCV (CLC) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 4

Sample Description:
Autosampler Position: 1
Sample Date/Time: Thursday, February 09, 2012 12:50:49
Dataset File: C:\Elandata\Dataset\EL120209\QC Std 4.050
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202001 AND WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	1.000	2.667	-0.004	ug/L	0.744
|>	Li u	6	356191.832	393432.269		ug/L	
⌞	Li	6	354195.156	391219.680		ug/L	
⌜	Be	9	1.000	2.667	-0.004	ug/L	0.392
|	B	11	249.340	102.002	0.394	ug/L	42.470
|	Al	27	1286.120	1604.517	-0.023	ug/L	39.046
|>	Sc	45	341616.644	394877.015		ug/L	
|	V r	51	39.574	-675.869	0.089	ug/L	56.548
|	V u	51	99931.722	102913.850	1.540	ug/L	36.528
|	Cr r	52	8572.529	10226.564	-0.047	ug/L	86.504
|	Cr	53	34618.846	35789.841	5.412	ug/L	39.556
|	Mn	55	388.680	451.684	-0.000	ug/L	298.612
|	Co	59	64.001	53.667	0.003	ug/L	64.993
|	Ni r	60	49.334	53.667	0.002	ug/L	375.999
|	Ni	62	88.001	93.001	0.039	ug/L	25.832
|	Cu r	63	165.337	196.671	-0.002	ug/L	270.802
⌞	Cu	65	91.668	106.668	-0.000	ug/L	4242.602
⌜	Zn r	66	112.335	202.338	-0.076	ug/L	5.710
|	Zn	67	2555.451	1698.540	7.794	ug/L	13.071
|	Zn	68	319.343	310.676	0.100	ug/L	0.577
|>	Ge	72	96162.977	113753.819		ug/L	
|	As r	75	-149.128	-197.552	0.018	ug/L	367.184
|	As u	75	5304.885	7220.131	-0.859	ug/L	31.225
|	Se r	82	-15.082	13.531	-0.243	ug/L	28.019
|	Se	77	1717.305	2370.118	-3.803	ug/L	33.955
⌞	Sr	88	257.007	147.670	0.011	ug/L	12.495
⌜	Ag r	107	59.334	31.667	0.006	ug/L	31.908
|	Ag	109	52.001	22.334	0.007	ug/L	53.853
|	Cd r	111	149.369	159.175	0.011	ug/L	84.043
|	Cd	106	-2100.493	-2501.520	0.368	ug/L	83.681
|	Cd	108	-2211.388	-2616.420	0.336	ug/L	90.326
|	Cd	114	19.724	10.979	0.004	ug/L	16.390
|	Cd u	111	9.667	6.333	0.003	ug/L	61.935
|>	In	115	180771.776	211170.792		ug/L	
|	Sb r	123	52.831	48.407	0.004	ug/L	91.940
⌞	Sb	121	63.334	64.334	0.002	ug/L	43.223

⌈	Sn	118	196.671	75.334	0.034	ug/L	24.523
|	Sn r	120	276.341	105.668	0.035	ug/L	41.851
|	Ba r	137	44.334	45.001	0.003	ug/L	190.319
|	Ba	135	24.334	29.334	-0.001	ug/L	448.074
|>	Tb	159	215127.544	246566.473		ug/L	
|	Tl r	205	4940.949	250.007	0.417	ug/L	82.731
|	Tl	203	2032.397	88.001	0.426	ug/L	81.842
|	U	238	151.003	27.667	0.007	ug/L	61.106
⌊	Pb	208	431.676	639.017	-0.008	ug/L	37.264
⌈	Na	23	26814.926	27801.440	0.001	mg/L	6.831
|	Mg	24	1762.223	465.019	0.000	mg/L	22.083
|	K	39	550214.125	632805.158	0.000	mg/L	101.060
|	Ca	44	9558.367	13238.849	-0.009	mg/L	12.271
|	Fe	54	23870.342	26822.312	0.001	mg/L	62.267
⌊>	Sc-1	45	341616.644	394877.015		ug/L	
	Kr	83	162.670	169.004		ug/L	
	Cl	35	28491598.237	30269094.238		mg/L	
	C	12	336759.543	349975.208		mg/L	
	Y	89	174463.999	202348.465		ug/L	
⌈	Br	79	2053.295	2134.984	1.198	ug/L	6.579
|	Br	81	14452.042	16210.893	3.536	ug/L	25.448
⌊>	Ge-1	72	96162.977	113753.819		ug/L	
	Ru	99	0.333	2.667		ug/L	
	Pd	105	1867.912	2210.006		ug/L	
	Ho	165	205765.621	240288.136		ug/L	
	Th	232	4648.731	112.002	0.251	ug/L	56.072
⌈	Mo	95	209.005	101.002	0.064	ug/L	42.831
|	Mo	97	125.336	65.668	0.057	ug/L	49.212
|	Mo r	98	331.530	146.375	0.065	ug/L	45.953
|	Rh	103	7.333	8.000		ug/L	
⌊>	In-1	115	180771.776	211170.792		ug/L	
	Ti	47	154.336	229.006		ug/L	
	Li	7	24619.932	27282.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
QC Std 4	V u 51	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cr 53	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Zn 67	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	As u 75	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Tl r 205	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Tl 203	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br 79	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br 81	IBL (LCB) is out of limits (+/- 0.400ug/L)

ICP-MS METALS Technical Review Checklist

(200.8, 6020)

For Internal Use Only

Site Name: Dimock Blostone WO#: 1202063

Analyst: _____ Date given to Reviewer: 2/14/12

Matrix (circle): Solid / Aqueous / Other _____ SOP R3QA116-021511 / R3QA155-021511

Program (circle): Superfund / RCRA / WPD (NPDES) / SDWA / Other: _____

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The signature below indicates the following:

- This data meets the needs of the customer according to the request.
- The analysis was performed as per the SOP, or exceptions documented.
- All documentation needed to recreate the analyses has been reviewed.
- Data Review status set to Peer Reviewed in Element.

Report Mn for -35 + -47 by ICP.

Peer Reviewer signature Joe Dorn Date accepted 2/14/12

If any data for this case is stored with another case file, give Site Name and WO# _____

Peer Reviewer Completes Section Below:

General:	YES	NO	N/A	Comments
Raw data is identified with sample ID's, site name, WO#, analyst name, date of analysis.	✓			
Quality Control:				
Initial calibration ≥.995	✓			
Meas. PK Width .6 to .7 amu	✓			
Exact Mass & Meas. Mass within 1 amu	✓			
Internal Stds 60-125%	✓			
SCV ±10%;		✓		Zn & Se fail (see note)
CCV ±10% , 10% frequency, and end of run; (If CCV fails at <±15%, can keep the data but have to recalibrate before continuing, or qualify data.)	✓			
LCV ±50% ;	✓			
IBL < |Reporting limit|, analyzed with each CCV;	✓			
BS (LCS) ±15%	✓			
SRM within vendor acceptance limits;			✓	
BLK < |Reporting limit|; (if >Reporting Limit **and** >1/10 of sample - must qualify)	✓			
MS [∓30%] unless spike is <30% of sample value;	✓			
RPDs from DUP ≤ 20% aqueous & 35% soils;	✓			

Sample results < CAL or within documented linear range; ✓

Calculations/Report:

Calculations and transcriptions checked. ✓

Element Draft Report reviewed. ✓

Deviations and problems documented. ✓

NOTE: When soils are being reported, the *sample qualifier* 'dry' or 'wet' must be entered so that it appears in the header of the Element report. This will signify that the data was report 'wet weight' or 'dry weight' as appropriate.

Additional Comments by Peer Reviewer:

Analyst Ensures that the Data Case File is Complete and Accurate:

____ Bench sheet
____ Calibration report
____ Instrument run log
____ Standard/Reagent Prep log
____ Daily Performance Report
____ TV sheets
____ Element Peer Review report
____ Raw data
____ Data status set to analyzed
____ Tune Report

Additional Comments by Analyst on data issues:

Use ~~SC~~ RE BS for V SCV

Se CCV failed high

SCV Se & Zn high - ~~Use BS for~~ RE BS for Zn failed high. - Flag A

Se has no hits - NO need to flag

Zn flag all hits with 'J' - 36-38, 40-41, 43

DIM0216291 DIM0216408

On-Demand Data Checklist
(used in addition to routine TRC)
For Internal Use Only

Parameter: U
Procedure/Method/Reference: 200.8

Site Name: Dimock WO#: 1202003
Analyst: RCostar

The signature below indicates the following:
• The analysis was performed as per the On-Demand requirements below.

Peer Reviewer signature [signature] Date accepted 2/4/12

Peer Reviewer Completes Section Below:

Quality Control:	**YES**	**NO**	**N/A**	**Comments**
The case file must explain why this is a non-routine request	✓			

This is a special request which falls outside our routine protocols. Therefore, these samples were analyzed and the quality control (QC) were evaluated based on the "On Demand" criteria. These protocols include all the QC checks as per routine analyses plus special verification of the performance of the analytical method at the reported quantitation limit/s. These protocols are specified in the EPA Region III OASQA Laboratory Quality Manual, current version.

A written procedure or reference must be available for the method being performed and referenced in the narrative. If the method to be performed is unique, the procedures must be fully documented.	✓			
Calibration of the instrumentation or analytical procedure must be according to the method or procedure.	✓			
Calibration verified by analysis of second source standard (SCV,SRM), if available. Concentration must be in the range of the calibration. Results must be within the method, procedure, client or in-house limits.	✓			
Analysis of one method blank (BLK) with each batch. Ideally, the results should be less than the expected quantitation levels set by the method, procedure, or in-house requirements.	✓			
Analysis of one matrix spike (MS) with each batch. For samples or parameters which do not lend themselves to matrix spiking, a BS or SRM sample must be analyzed. Results of spikes must be within the method, procedure, client or in-house limits.	✓			
Analysis of one duplicate analyses (DUP) or a quality control sample such as an SRM or BS with each batch. If duplicate analyses is not possible, e.g.,				

insufficient sample quantity, a quality control sample must be analyzed in duplicate, if available. Results of duplicate analyses must be within the method, procedure, client or in-house limits. ✓

At least one blank spike (BS) must be carried through the entire method and analyzed with each batch. The concentration of the BS should be at the quantitation level or at the level of the expected sample results, if known. Results of the BS must be within the method, procedure, client or in-house limits. ✓

Any additional quality control items, such as surrogates, internal standards, etc., which the referenced method or procedure requires should be analyzed. Results must be within the method or, procedure limits. ✓

The analyst must document the impact on the usability of the reported data by applying qualifier codes if applicable and including a summary in the case file. ✓

Additional Comments:

DIM0216291 DIM0216410

⌈	Sn	118	283.341	195.338	**0.026**	ug/L	22.677
|	Sn r	120	402.681	255.674	**0.031**	ug/L	13.074
|	Ba r	137	187683.076	43.667	**103.613**	ug/L	1.445
|	Ba	135	109496.279	20.000	**103.963**	ug/L	0.734
|>	Tb	159	205657.742	211870.271		ug/L	
|	Tl r	205	1075932.408	837.721	**98.893**	ug/L	0.833
|	Tl	203	455625.014	337.344	**101.207**	ug/L	1.433
|	U	238	58.667	30.667	**0.002**	ug/L	33.201
⌊	Pb	208	1438930.516	504.012	**102.875**	ug/L	1.912
⌈	Na	23	466759.510	21260.554	**0.099**	mg/L	0.471
|	Mg	24	279774.360	709.040	**0.089**	mg/L	0.728
|	K	39	8382231.726	458015.620	**1.035**	mg/L	1.486
|	Ca	44	35479.321	10752.953	**0.114**	mg/L	1.375
|	Fe	54	68087.066	21271.210	**0.081**	mg/L	1.461
⌊>	Sc-1	45	307468.284	293669.979		ug/L	
	Kr	83	74.668	70.334		ug/L	
	Cl	35	24893516.789	26810658.688		mg/L	
	C	12	313707.432	304308.241		mg/L	
	Y	89	163886.597	167906.034		ug/L	
⌈	Br	79	1790.226	1887.917	**-0.480**	ug/L	66.260
|	Br	81	13028.499	13439.866	**-2.061**	ug/L	89.656
⌊>	Ge-1	72	86315.493	86530.566		ug/L	
	Ru	99	23.334	2.667		ug/L	
	Pd	105	2042.625	1950.934		ug/L	
	Ho	165	200572.601	208038.839		ug/L	
	Th	232	5124.679	763.380	**0.234**	ug/L	55.653
⌈	Mo	95	188102.669	105.335	**101.781**	ug/L	1.478
|	Mo	97	120660.884	68.001	**102.652**	ug/L	1.974
|	Mo r	98	315365.527	175.116	**102.000**	ug/L	2.641
|	Rh	103	89.335	2.667		ug/L	
⌊>	In-1	115	170982.746	175404.076		ug/L	
	Ti	47	46773.250	183.004		ug/L	
	Li	7	135641.214	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
QC Std 5	B	11	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Zn r	66	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Zn	67	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Zn	68	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Se r	82	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	U	238	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Mg	24	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Ca	44	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Fe	54	SCV (LVM) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 5

Sample Description:
Autosampler Position: 5
Sample Date/Time: Monday, February 13, 2012 09:42:53
Dataset File: C:\Elandata\Dataset\EL120213\QC Std 5.009
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

Se + ZN high

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	32766.312	2.333	105.758	ug/L	2.391
|>	Li u	6	343455.636	343542.862		ug/L	
⌞	Li	6	332455.134	341727.648		ug/L	
⌜	Be	9	32766.312	2.333	108.718	ug/L	2.291
|	B	11	41725.950	142.669	111.099	ug/L	1.353
|	Al	27	386450.138	1507.830	95.772	ug/L	0.982
|>	Sc	45	307468.284	293669.979		ug/L	
|	V r	51	671805.367	-1609.015	100.402	ug/L	0.540
|	V u	51	765176.667	90091.537	101.637	ug/L	1.258
|	Cr r	52	586560.958	8054.295	102.660	ug/L	1.274
|	Cr	53	96590.059	31139.892	106.614	ug/L	3.468
|	Mn	55	929416.626	367.679	103.411	ug/L	0.839
|	Co	59	660741.131	42.001	104.809	ug/L	0.740
|	Ni r	60	132137.946	78.001	101.937	ug/L	0.178
|	Ni	62	19286.676	85.668	104.008	ug/L	1.067
|	Cu r	63	270924.714	199.338	104.767	ug/L	1.274
⌞	Cu	65	125671.169	89.668	105.349	ug/L	0.972
⌜	Zn r	66	75701.776	205.671	112.464	ug/L	2.126
|	Zn	67	15753.272	2553.783	113.579	ug/L	1.666
|	Zn	68	55976.828	362.345	112.637	ug/L	1.987
|>	Ge	72	86315.493	86530.566		ug/L	
|	As r	75	96805.969	-352.353	105.743	ug/L	1.596
|	As u	75	97044.272	4067.450	105.917	ug/L	1.352
|	Se r	82	11014.115	4.722	111.930	ug/L	1.770
|	Se	77	9496.461	1367.597	114.667	ug/L	1.796
⌞	Sr	88	1224134.888	183.337	101.087	ug/L	1.645
⌜	Ag r	107	226793.419	30.334	46.514	ug/L	1.361
|	Ag	109	215329.968	29.667	46.266	ug/L	1.742
|	Cd r	111	127055.392	143.360	107.236	ug/L	0.656
|	Cd	106	9370.609	-2210.438	107.447	ug/L	0.543
|	Cd	108	6351.004	-2310.098	104.852	ug/L	1.736
|	Cd	114	290994.441	14.760	107.039	ug/L	0.944
|	Cd u	111	127398.267	9.667	107.079	ug/L	0.767
|>	In	115	170982.746	175404.076		ug/L	
|	Sb r	123	311221.896	34.164	104.671	ug/L	1.185
⌞	Sb	121	408594.803	33.000	104.213	ug/L	2.013

⌈	Sn	118	189678.429	195.338	**51.063**	ug/L	1.565
|	Sn r	120	256961.281	255.674	**50.555**	ug/L	1.217
|	Ba r	137	94074.162	43.667	**50.712**	ug/L	0.730
|	Ba	135	54690.956	20.000	**50.712**	ug/L	1.254
|>	Tb	159	210567.637	211870.271		ug/L	
|	Tl r	205	539250.698	837.721	**48.375**	ug/L	1.230
|	Tl	203	223940.383	337.344	**48.540**	ug/L	0.528
|	U	238	930099.829	30.667	**50.030**	ug/L	2.034
L	Pb	208	728171.464	504.012	**50.824**	ug/L	0.459
⌈	Na	23	23586099.995	21260.554	**5.227**	mg/L	3.188
|	Mg	24	16603852.813	709.040	**5.289**	mg/L	1.262
|	K	39	40884518.203	458015.620	**5.258**	mg/L	0.806
|	Ca	44	995453.444	10752.953	**4.622**	mg/L	0.989
|	Fe	54	2944407.506	21271.210	**5.147**	mg/L	1.675
L>	Sc-1	45	309514.200	293669.979		ug/L	
	Kr	83	98.335	70.334		ug/L	
	Cl	35	28017614.343	26810658.688		mg/L	
	C	12	366168.787	304308.241		mg/L	
	Y	89	169880.400	167906.034		ug/L	
⌈	Br	79	11936.377	1887.917	**50.894**	ug/L	1.621
|	Br	81	23390.414	13439.866	**51.488**	ug/L	1.936
L>	Ge-1	72	88078.296	86530.566		ug/L	
	Ru	99	17.000	2.667		ug/L	
	Pd	105	2063.298	1950.934		ug/L	
	Ho	165	204355.314	208038.839		ug/L	
	Th	232	875724.076	763.380	**47.026**	ug/L	0.707
⌈	Mo	95	97066.989	105.335	**50.574**	ug/L	1.533
|	Mo	97	62383.235	68.001	**51.103**	ug/L	1.073
|	Mo r	98	162899.378	175.116	**50.732**	ug/L	2.127
|	Rh	103	50.334	2.667		ug/L	
L>	In-1	115	177449.439	175404.076		ug/L	
	Ti	47	223.672	183.004		ug/L	
	Li	7	22103.935	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
QC Std 2	Se r 82	CCV (CLC) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Monday, February 13, 2012 09:30:54
Dataset File: C:\Elandata\Dataset\EL120213\QC Std 2.007
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

Se high

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	15975.734	2.333	52.309	ug/L	2.303
|>	Li u	6	338552.798	343542.862		ug/L	
⌊	Li	6	336760.168	341727.648		ug/L	
⌈	Be	9	15975.734	2.333	52.660	ug/L	2.611
|	B	11	20148.560	142.669	53.092	ug/L	2.600
|	Al	27	209611.267	1507.830	51.427	ug/L	1.007
|>	Sc	45	309514.200	293669.979		ug/L	
|	V r	51	339073.484	-1609.015	50.475	ug/L	2.214
|	V u	51	428574.314	90091.537	50.217	ug/L	1.888
|	Cr r	52	298398.927	8054.295	51.143	ug/L	1.011
|	Cr	53	62998.913	31139.892	49.949	ug/L	2.056
|	Mn	55	465633.603	367.679	51.445	ug/L	0.622
|	Co	59	326255.713	42.001	51.408	ug/L	1.494
|	Ni r	60	67020.030	78.001	51.337	ug/L	1.604
|	Ni	62	9538.341	85.668	50.848	ug/L	1.796
|	Cu r	63	134198.519	199.338	51.515	ug/L	1.008
⌊	Cu	65	61973.952	89.668	51.569	ug/L	0.670
⌈	Zn r	66	37742.429	205.671	54.774	ug/L	0.836
|	Zn	67	8900.238	2553.783	53.093	ug/L	3.132
|	Zn	68	27655.240	362.345	54.145	ug/L	0.598
|>	Ge	72	88078.296	86530.566		ug/L	
|	As r	75	49261.358	-352.353	52.923	ug/L	2.006
|	As u	75	51231.550	4067.450	52.563	ug/L	1.068
|	Se r	82	5557.946	4.722	55.325	ug/L	1.804
|	Se	77	5351.213	1367.597	54.693	ug/L	1.633
⌊	Sr	88	631387.341	183.337	51.084	ug/L	1.279
⌈	Ag r	107	258632.054	30.334	51.106	ug/L	0.327
|	Ag	109	248690.976	29.667	51.488	ug/L	0.966
|	Cd r	111	63652.997	143.360	51.703	ug/L	1.541
|	Cd	106	3433.069	-2210.438	50.927	ug/L	1.562
|	Cd	108	1999.418	-2310.098	50.917	ug/L	4.038
|	Cd	114	145771.146	14.760	51.663	ug/L	0.491
|	Cd u	111	63869.711	9.667	51.721	ug/L	1.201
|>	In	115	177449.439	175404.076		ug/L	
|	Sb r	123	155712.816	34.164	50.457	ug/L	1.722
⌊	Sb	121	203176.624	33.000	49.923	ug/L	0.708

⌈	Sn	118	348.011	195.338	**0.039**	ug/L	6.541
|	Sn r	120	468.019	255.674	**0.040**	ug/L	20.105
|	Ba r	137	38.667	43.667	**-0.003**	ug/L	28.018
|	Ba	135	25.000	20.000	**0.004**	ug/L	93.429
|>	Tb	159	215505.880	211870.271		ug/L	
|	Tl r	205	1991.281	837.721	**0.100**	ug/L	24.482
|	Tl	203	835.388	337.344	**0.104**	ug/L	21.322
|	U	238	87.668	30.667	**0.003**	ug/L	16.686
⌊	Pb	208	591.348	504.012	**0.005**	ug/L	93.660
⌈	Na	23	23836.783	21260.554	**0.000**	mg/L	12.782
|	Mg	24	1061.417	709.040	**0.000**	mg/L	0.738
|	K	39	465973.188	458015.620	**-0.000**	mg/L	103.872
|	Ca	44	10682.186	10752.953	**-0.001**	mg/L	36.615
|	Fe	54	21185.945	21271.210	**-0.001**	mg/L	88.311
⌊>	Sc-1	45	299898.974	293669.979		ug/L	
	Kr	83	65.668	70.334		ug/L	
	Cl	35	26964291.735	26810658.688		mg/L	
	C	12	310661.760	304308.241		mg/L	
	Y	89	172937.179	167906.034		ug/L	
⌈	Br	79	1942.265	1887.917	**0.117**	ug/L	198.489
|	Br	81	13552.397	13439.866	**-0.589**	ug/L	165.754
⌊>	Ge-1	72	87982.940	86530.566		ug/L	
	Ru	99	1.000	2.667		ug/L	
	Pd	105	2057.296	1950.934		ug/L	
	Ho	165	208772.955	208038.839		ug/L	
	Th	232	1594.182	763.380	**0.045**	ug/L	19.354
⌈	Mo	95	154.670	105.335	**0.024**	ug/L	34.653
|	Mo	97	102.668	68.001	**0.027**	ug/L	21.667
|	Mo r	98	244.045	175.116	**0.020**	ug/L	37.399
|	Rh	103	9.000	2.667		ug/L	
⌊>	In-1	115	179442.890	175404.076		ug/L	
	Ti	47	176.004	183.004		ug/L	
	Li	7	22563.613	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
QC Std 4	V u	51	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cr	53	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Zn	67	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cd	106	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cd	108	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br	81	IBL (LCB) is out of limits (+/- 0.400ug/L)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 4

Sample Description:
Autosampler Position: 1
Sample Date/Time: Monday, February 13, 2012 09:37:40
Dataset File: C:\Elandata\Dataset\EL120213\QC Std 4.008
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	0.667	2.333	-0.005	ug/L	33.996
|>	Li u	6	345287.902	343542.862		ug/L	
L	Li	6	343457.993	341727.648		ug/L	
⌈	Be	9	0.667	2.333	-0.006	ug/L	33.589
|	B	11	228.339	142.669	0.226	ug/L	30.987
|	Al	27	1653.528	1507.830	0.029	ug/L	23.772
|>	Sc	45	299898.974	293669.979		ug/L	
|	V r	51	-1165.693	-1609.015	0.072	ug/L	377.640
|	V u	51	81392.795	90091.537	-1.650	ug/L	41.577
|	Cr r	52	7723.955	8054.295	-0.091	ug/L	33.572
|	Cr	53	28697.775	31139.892	-5.302	ug/L	34.735
|	Mn	55	367.012	367.679	-0.001	ug/L	70.310
|	Co	59	40.667	42.001	-0.000	ug/L	179.952
|	Ni r	60	79.335	78.001	-0.000	ug/L	4632.754
|	Ni	62	84.335	85.668	-0.017	ug/L	189.775
|	Cu r	63	225.006	199.338	0.009	ug/L	95.337
L	Cu	65	110.002	89.668	0.016	ug/L	33.522
⌈	Zn r	66	207.005	205.671	-0.003	ug/L	632.541
|	Zn	67	2160.326	2553.783	-3.687	ug/L	20.798
|	Zn	68	335.344	362.345	-0.066	ug/L	63.386
|>	Ge	72	87982.940	86530.566		ug/L	
|	As r	75	-301.880	-352.353	0.062	ug/L	233.681
|	As u	75	3867.679	4067.450	-0.299	ug/L	56.241
|	Se r	82	4.096	4.722	-0.006	ug/L	2574.514
|	Se	77	1308.621	1367.597	-1.133	ug/L	7.605
L	Sr	88	178.004	183.337	-0.001	ug/L	144.643
⌈	Ag r	107	62.334	30.334	0.006	ug/L	35.744
|	Ag	109	51.001	29.667	0.004	ug/L	87.197
|	Cd r	111	156.602	143.360	0.008	ug/L	64.577
|	Cd	106	-2324.282	-2210.438	-0.559	ug/L	128.822
|	Cd	108	-2437.465	-2310.098	-0.861	ug/L	94.404
|	Cd	114	17.998	14.760	0.001	ug/L	141.506
|	Cd u	111	9.000	9.667	-0.001	ug/L	189.288
|>	In	115	179442.890	175404.076		ug/L	
|	Sb r	123	44.661	34.164	0.003	ug/L	51.453
L	Sb	121	57.001	33.000	0.006	ug/L	55.820

⌈	Sn	118	192801.241	195.338	**51.608**	ug/L	1.250
|	Sn r	120	260557.378	255.674	**50.975**	ug/L	2.170
|	Ba r	137	96442.527	43.667	**51.709**	ug/L	2.878
|	Ba	135	55593.728	20.000	**51.256**	ug/L	1.210
|>	Tb	159	211773.750	211870.271		ug/L	
|	Tl r	205	554026.490	837.721	**49.415**	ug/L	1.659
|	Tl	203	228856.157	337.344	**49.333**	ug/L	1.312
|	U	238	935815.752	30.667	**50.051**	ug/L	1.403
⌊	Pb	208	736854.424	504.012	**51.147**	ug/L	1.655
⌈	Na	23	23885832.519	21260.554	**5.280**	mg/L	0.106
|	Mg	24	16536689.610	709.040	**5.255**	mg/L	1.116
|	K	39	40944082.194	458015.620	**5.254**	mg/L	0.788
|	Ca	44	1006880.119	10752.953	**4.665**	mg/L	1.540
|	Fe	54	2918119.987	21271.210	**5.090**	mg/L	1.416
⌊>	Sc-1	45	310224.061	293669.979		ug/L	
	Kr	83	256.674	70.334		ug/L	
	Cl	35	27984676.862	26810658.688		mg/L	
	C	12	419799.678	304308.241		mg/L	
	Y	89	170407.260	167906.034		ug/L	
⌈	Br	79	12309.302	1887.917	**52.536**	ug/L	3.817
|	Br	81	23497.737	13439.866	**51.536**	ug/L	3.254
⌊>	Ge-1	72	88454.893	86530.566		ug/L	
	Ru	99	15.667	2.667		ug/L	
	Pd	105	1997.279	1950.934		ug/L	
	Ho	165	205286.316	208038.839		ug/L	
	Th	232	885932.043	763.380	**47.575**	ug/L	0.671
⌈	Mo	95	98157.956	105.335	**51.319**	ug/L	0.779
|	Mo	97	62721.631	68.001	**51.556**	ug/L	0.113
|	Mo r	98	164318.860	175.116	**51.347**	ug/L	0.881
|	Rh	103	49.334	2.667		ug/L	
⌊>	In-1	115	176843.687	175404.076		ug/L	
	Ti	47	262.340	183.004		ug/L	
	Li	7	22452.951	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
QC Std 2	Zn r	66	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Zn	68	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Se r	82	CCV (CLC) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Monday, February 13, 2012 09:24:51
Dataset File: C:\Elandata\Dataset\EL120213\QC Std 2.006
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

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SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	16018.489	2.333	**52.369**	ug/L	0.995
|>	Li u	6	339022.455	343542.862		ug/L	
⌊	Li	6	337201.521	341727.648		ug/L	
⌈	Be	9	16018.489	2.333	**52.671**	ug/L	0.583
|	B	11	20597.413	142.669	**54.157**	ug/L	1.828
|	Al	27	209361.481	1507.830	**51.241**	ug/L	0.910
|>	Sc	45	310224.061	293669.979		ug/L	
|	V r	51	339535.680	-1609.015	**50.415**	ug/L	0.716
|	V u	51	430360.315	90091.537	**50.327**	ug/L	0.645
|	Cr r	52	300061.118	8054.295	**51.312**	ug/L	0.864
|	Cr	53	62958.244	31139.892	**49.647**	ug/L	2.587
|	Mn	55	471324.091	367.679	**51.961**	ug/L	1.712
|	Co	59	327194.392	42.001	**51.442**	ug/L	1.480
|	Ni r	60	68153.600	78.001	**52.086**	ug/L	1.472
|	Ni	62	9754.279	85.668	**51.900**	ug/L	2.035
|	Cu r	63	135722.262	199.338	**51.980**	ug/L	0.737
⌊	Cu	65	63381.010	89.668	**52.627**	ug/L	1.635
⌈	Zn r	66	38399.332	205.671	**55.498**	ug/L	1.421
|	Zn	67	9111.151	2553.783	**54.550**	ug/L	1.160
|	Zn	68	28220.287	362.345	**55.030**	ug/L	0.575
|>	Ge	72	88454.893	86530.566		ug/L	
|	As r	75	50041.081	-352.353	**53.519**	ug/L	1.322
|	As u	75	51310.749	4067.450	**52.404**	ug/L	0.550
|	Se r	82	5680.446	4.722	**56.298**	ug/L	0.247
|	Se	77	5292.040	1367.597	**53.568**	ug/L	0.843
⌊	Sr	88	644756.393	183.337	**51.940**	ug/L	0.833
⌈	Ag r	107	264677.235	30.334	**52.480**	ug/L	0.489
|	Ag	109	250624.937	29.667	**52.065**	ug/L	0.663
|	Cd r	111	64466.205	143.360	**52.544**	ug/L	2.044
|	Cd	106	3661.319	-2210.438	**53.089**	ug/L	1.127
|	Cd	108	2149.356	-2310.098	**52.767**	ug/L	2.348
|	Cd	114	148167.732	14.760	**52.692**	ug/L	0.672
|	Cd u	111	64647.216	9.667	**52.529**	ug/L	1.827
|>	In	115	176843.687	175404.076		ug/L	
|	Sb r	123	158480.771	34.164	**51.529**	ug/L	1.587
⌊	Sb	121	208831.564	33.000	**51.489**	ug/L	1.833

⌈	Sn	118	391133.983	195.338	**99.854**	ug/L	0.546
|	Sn r	120	534982.068	255.674	**99.814**	ug/L	0.638
|	Ba r	137	194293.771	43.667	**99.321**	ug/L	1.227
|	Ba	135	112992.033	20.000	**99.327**	ug/L	0.756
|>	Tb	159	222133.686	211870.271		ug/L	
|	Tl r	205	1119432.700	837.721	**95.242**	ug/L	1.161
|	Tl	203	466056.967	337.344	**95.835**	ug/L	0.584
|	U	238	1943506.107	30.667	**99.085**	ug/L	1.389
⌊	Pb	208	1495352.098	504.012	**98.975**	ug/L	0.551
⌈	Na	23	46940692.496	21260.554	**9.973**	mg/L	2.079
|	Mg	24	32585581.861	709.040	**9.948**	mg/L	2.680
|	K	39	80551312.223	458015.620	**9.984**	mg/L	1.414
|	Ca	44	2276518.519	10752.953	**10.192**	mg/L	1.153
|	Fe	54	5761702.214	21271.210	**9.688**	mg/L	1.185
⌊>	Sc-1	45	322979.896	293669.979		ug/L	
	Kr	83	221.006	70.334		ug/L	
	Cl	35	28221781.608	26810658.688		mg/L	
	C	12	436455.754	304308.241		mg/L	
	Y	89	174471.383	167906.034		ug/L	
⌈	Br	79	22420.186	1887.917	**100.239**	ug/L	0.885
|	Br	81	34043.863	13439.866	**101.736**	ug/L	3.261
⌊>	Ge-1	72	91236.137	86530.566		ug/L	
	Ru	99	25.334	2.667		ug/L	
	Pd	105	2113.979	1950.934		ug/L	
	Ho	165	216715.860	208038.839		ug/L	
	Th	232	1819683.450	763.380	**97.760**	ug/L	1.536
⌈	Mo	95	199325.786	105.335	**99.775**	ug/L	0.539
|	Mo	97	126618.589	68.001	**99.650**	ug/L	0.181
|	Mo r	98	333580.599	175.116	**99.803**	ug/L	0.489
|	Rh	103	107.668	2.667		ug/L	
⌊>	In-1	115	184798.142	175404.076		ug/L	
	Ti	47	326.010	183.004		ug/L	
	Li	7	22901.269	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Standard 3

Sample Description:
Autosampler Position: 4
Sample Date/Time: Monday, February 13, 2012 09:19:27
Dataset File: C:\Elandata\Dataset\EL120213\Standard 3.005
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	31618.163	2.333	100.103	ug/L	1.452
|>	Li u	6	350155.350	343542.862		ug/L	
⌞	Li	6	348298.057	341727.648		ug/L	
⌜	Be	9	31618.163	2.333	99.872	ug/L	1.314
|	B	11	39611.873	142.669	100.396	ug/L	4.582
|	Al	27	420157.554	1507.830	99.144	ug/L	0.981
|>	Sc	45	322979.896	293669.979		ug/L	
|	V r	51	698935.140	-1609.015	99.437	ug/L	1.071
|	V u	51	791915.516	90091.537	99.921	ug/L	0.892
|	Cr r	52	595404.147	8054.295	99.154	ug/L	1.148
|	Cr	53	98053.999	31139.892	101.214	ug/L	2.791
|	Mn	55	935455.469	367.679	99.075	ug/L	1.021
|	Co	59	655659.973	42.001	99.005	ug/L	0.827
|	Ni r	60	134545.272	78.001	98.808	ug/L	0.683
|	Ni	62	19344.157	85.668	99.286	ug/L	1.458
|	Cu r	63	268579.656	199.338	98.864	ug/L	1.374
⌞	Cu	65	123867.825	89.668	98.840	ug/L	1.378
⌜	Zn r	66	71151.987	205.671	99.937	ug/L	0.895
|	Zn	67	15186.127	2553.783	101.651	ug/L	1.681
|	Zn	68	52689.737	362.345	100.202	ug/L	1.339
|>	Ge	72	91236.137	86530.566		ug/L	
|	As r	75	96565.698	-352.353	99.791	ug/L	1.451
|	As u	75	96803.050	4067.450	99.677	ug/L	1.006
|	Se r	82	10456.258	4.722	100.497	ug/L	3.080
|	Se	77	8934.803	1367.597	99.934	ug/L	1.332
⌞	Sr	88	1268593.825	183.337	99.089	ug/L	1.284
⌜	Ag r	107	522226.777	30.334	99.090	ug/L	1.720
|	Ag	109	500225.474	29.667	99.453	ug/L	1.132
|	Cd r	111	127916.470	143.360	99.876	ug/L	0.470
|	Cd	106	9197.813	-2210.438	99.423	ug/L	1.946
|	Cd	108	6383.592	-2310.098	99.410	ug/L	2.029
|	Cd	114	293095.679	14.760	99.744	ug/L	1.751
|	Cd u	111	128450.327	9.667	99.883	ug/L	0.491
|>	In	115	184798.142	175404.076		ug/L	
|	Sb r	123	320344.717	34.164	99.686	ug/L	1.224
⌞	Sb	121	422512.068	33.000	99.690	ug/L	0.602

⌈	Sn	118	207266.613	195.338	**49.936**	ug/L	1.397
|	Sn r	120	284182.092	255.674	**49.961**	ug/L	1.038
|	Ba r	137	105720.671	43.667	**49.982**	ug/L	1.539
|	Ba	135	61467.033	20.000	**49.993**	ug/L	1.937
|>	Tb	159	233957.105	211870.271		ug/L	
|	Tl r	205	619264.399	837.721	**49.994**	ug/L	1.378
|	Tl	203	256456.781	337.344	**50.039**	ug/L	0.575
|	U	238	1067908.581	30.667	**49.937**	ug/L	1.177
L	Pb	208	826284.040	504.012	**49.944**	ug/L	1.077
⌈	Na	23	24502561.828	21260.554	**5.002**	mg/L	1.287
|	Mg	24	17196740.274	709.040	**5.000**	mg/L	1.070
|	K	39	42055772.203	458015.620	**5.003**	mg/L	1.313
|	Ca	44	1070598.739	10752.953	**4.996**	mg/L	0.574
|	Fe	54	3055838.736	21271.210	**4.973**	mg/L	0.990
L>	Sc-1	45	332447.645	293669.979		ug/L	
	Kr	83	124.336	70.334		ug/L	
	Cl	35	28418278.501	26810658.688		mg/L	
	C	12	415964.164	304308.241		mg/L	
	Y	89	183313.580	167906.034		ug/L	
⌈	Br	79	12516.300	1887.917	**50.134**	ug/L	1.820
|	Br	81	24442.356	13439.866	**52.055**	ug/L	7.040
L>	Ge-1	72	94274.184	86530.566		ug/L	
	Ru	99	14.000	2.667		ug/L	
	Pd	105	2098.307	1950.934		ug/L	
	Ho	165	227386.096	208038.839		ug/L	
	Th	232	1008346.932	763.380	**49.859**	ug/L	1.101
⌈	Mo	95	105389.830	105.335	**49.925**	ug/L	0.836
|	Mo	97	67358.078	68.001	**49.922**	ug/L	1.229
|	Mo r	98	176123.908	175.116	**49.922**	ug/L	1.590
|	Rh	103	51.001	2.667		ug/L	
L>	In-1	115	193515.095	175404.076		ug/L	
	Ti	47	287.008	183.004		ug/L	
	Li	7	23759.208	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
Corr. Coef.	Cr	53	Correlation Coefficient NOT >0.995
Corr. Coef.	Zn	67	Correlation Coefficient NOT >0.995
Corr. Coef.	Br	81	Correlation Coefficient NOT >0.995

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Standard 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Monday, February 13, 2012 09:14:13
Dataset File: C:\Elandata\Dataset\EL120213\Standard 2.004
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	16429.691	2.333	**50.133**	ug/L	1.355
|>	Li u	6	364707.645	343542.862		ug/L	
⌊	Li	6	362780.774	341727.648		ug/L	
⌈	Be	9	16429.691	2.333	**50.168**	ug/L	1.631
|	B	11	20181.326	142.669	**50.260**	ug/L	4.625
|	Al	27	226351.060	1507.830	**50.055**	ug/L	0.496
|>	Sc	45	332447.645	293669.979		ug/L	
|	V r	51	368257.959	-1609.015	**49.955**	ug/L	2.436
|	V u	51	462063.887	90091.537	**50.312**	ug/L	2.832
|	Cr r	52	323302.825	8054.295	**49.978**	ug/L	1.527
|	Cr	53	66949.752	31139.892	**51.247**	ug/L	3.204
|	Mn	55	502527.897	367.679	**49.918**	ug/L	0.864
|	Co	59	353371.598	42.001	**49.932**	ug/L	1.773
|	Ni r	60	73276.177	78.001	**49.960**	ug/L	1.618
|	Ni	62	10331.708	85.668	**49.906**	ug/L	1.796
|	Cu r	63	145713.631	199.338	**49.893**	ug/L	1.641
⌊	Cu	65	67288.704	89.668	**49.906**	ug/L	1.148
⌈	Zn r	66	37049.413	205.671	**50.107**	ug/L	3.750
|	Zn	67	8880.546	2553.783	**51.287**	ug/L	4.157
|	Zn	68	27227.393	362.345	**50.151**	ug/L	3.631
|>	Ge	72	94274.184	86530.566		ug/L	
|	As r	75	50168.905	-352.353	**49.970**	ug/L	0.722
|	As u	75	52863.890	4067.450	**49.891**	ug/L	1.581
|	Se r	82	5297.549	4.722	**50.230**	ug/L	3.215
|	Se	77	5371.376	1367.597	**49.989**	ug/L	3.960
⌊	Sr	88	683519.659	183.337	**49.921**	ug/L	2.308
⌈	Ag r	107	285477.168	30.334	**49.987**	ug/L	1.265
|	Ag	109	268707.383	29.667	**49.973**	ug/L	2.417
|	Cd r	111	67551.670	143.360	**50.084**	ug/L	1.938
|	Cd	106	3744.838	-2210.438	**49.835**	ug/L	0.884
|	Cd	108	2187.071	-2310.098	**49.864**	ug/L	0.914
|	Cd	114	155557.356	14.760	**50.076**	ug/L	2.338
|	Cd u	111	67743.329	9.667	**50.090**	ug/L	1.945
|>	In	115	193515.095	175404.076		ug/L	
|	Sb r	123	170401.333	34.164	**50.036**	ug/L	1.945
⌊	Sb	121	224660.381	33.000	**50.034**	ug/L	1.780

⌈	Sn	118	46617.980	195.338	10.000	ug/L	1.678
|	Sn r	120	63109.525	255.674	10.000	ug/L	2.462
|	Ba r	137	23180.440	43.667	10.000	ug/L	0.125
|	Ba	135	13393.786	20.000	10.000	ug/L	1.396
|>	Tb	159	253622.827	211870.271		ug/L	
|	Tl r	205	135481.710	837.721	10.000	ug/L	2.705
|	Tl	203	54804.432	337.344	10.000	ug/L	0.867
|	U	238	239216.057	30.667	10.000	ug/L	1.684
⌊	Pb	208	184900.318	504.012	10.000	ug/L	0.941
⌈	Na	23	5194394.151	21260.554	1.000	mg/L	1.317
|	Mg	24	3679460.249	709.040	1.000	mg/L	0.627
|	K	39	9294120.809	458015.620	1.000	mg/L	0.651
|	Ca	44	243396.133	10752.953	1.000	mg/L	0.375
|	Fe	54	766236.109	21271.210	1.000	mg/L	1.826
⌊>	Sc-1	45	355199.977	293669.979		ug/L	
	Kr	83	272.341	70.334		ug/L	
	Cl	35	28239378.345	26810658.688		mg/L	
	C	12	504867.332	304308.241		mg/L	
	Y	89	201090.114	167906.034		ug/L	
⌈	Br	79	4293.908	1887.917	10.000	ug/L	5.187
|	Br	81	15652.406	13439.866	10.000	ug/L	540.121
⌊>	Ge-1	72	101123.383	86530.566		ug/L	
	Ru	99	2.333	2.667		ug/L	
	Pd	105	2229.679	1950.934		ug/L	
	Ho	165	246874.523	208038.839		ug/L	
	Th	232	217069.788	763.380	10.000	ug/L	2.078
⌈	Mo	95	24012.328	105.335	10.000	ug/L	0.810
|	Mo	97	15371.497	68.001	10.000	ug/L	0.872
|	Mo r	98	40197.830	175.116	10.000	ug/L	2.318
|	Rh	103	18.000	2.667		ug/L	
⌊>	In-1	115	211301.574	175404.076		ug/L	
	Ti	47	262.007	183.004		ug/L	
	Li	7	24541.331	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Standard 1

Sample Description:
Autosampler Position: 2
Sample Date/Time: Monday, February 13, 2012 09:09:00
Dataset File: C:\Elandata\Dataset\EL120213\Standard 1.003
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	3207.701	2.333	10.000	ug/L	2.434
|>	Li u	6	382067.216	343542.862		ug/L	
L	Li	6	380076.914	341727.648		ug/L	
⌈	Be	9	3207.701	2.333	10.000	ug/L	2.273
|	B	11	3876.016	142.669	10.000	ug/L	3.601
|	Al	27	48462.365	1507.830	10.000	ug/L	1.641
|>	Sc	45	355199.977	293669.979		ug/L	
|	V r	51	79006.798	-1609.015	10.000	ug/L	1.450
|	V u	51	173512.178	90091.537	10.000	ug/L	3.874
|	Cr r	52	77652.102	8054.295	10.000	ug/L	0.844
|	Cr	53	40154.613	31139.892	10.000	ug/L	18.287
|	Mn	55	112333.887	367.679	10.000	ug/L	1.413
|	Co	59	78234.991	42.001	10.000	ug/L	1.490
|	Ni r	60	16058.907	78.001	10.000	ug/L	0.673
|	Ni	62	2397.398	85.668	10.000	ug/L	4.018
|	Cu r	63	33060.562	199.338	10.000	ug/L	1.306
L	Cu	65	15170.435	89.668	10.000	ug/L	2.631
⌈	Zn r	66	7705.602	205.671	10.000	ug/L	0.410
|	Zn	67	3438.803	2553.783	10.000	ug/L	25.867
|	Zn	68	5731.526	362.345	10.000	ug/L	0.950
|>	Ge	72	101123.383	86530.566		ug/L	
|	As r	75	10602.217	-352.353	10.000	ug/L	1.488
|	As u	75	15735.906	4067.450	10.000	ug/L	1.152
|	Se r	82	1006.077	4.722	10.000	ug/L	1.257
|	Se	77	2436.031	1367.597	10.000	ug/L	1.639
L	Sr	88	152909.121	183.337	10.000	ug/L	2.040
⌈	Ag r	107	62804.011	30.334	10.000	ug/L	1.441
|	Ag	109	59560.964	29.667	10.000	ug/L	0.641
|	Cd r	111	14250.807	143.360	10.000	ug/L	2.603
|	Cd	106	-1196.101	-2210.438	10.000	ug/L	5.738
|	Cd	108	-1674.994	-2310.098	10.000	ug/L	8.340
|	Cd	114	32660.683	14.760	10.000	ug/L	0.710
|	Cd u	111	14117.424	9.667	10.000	ug/L	2.607
|>	In	115	211301.574	175404.076		ug/L	
|	Sb r	123	36551.205	34.164	10.000	ug/L	0.442
L	Sb	121	48228.197	33.000	10.000	ug/L	0.666

⌈	Sn	118	195.338	ug/L
|	Sn r	120	255.674	ug/L
|	Ba r	137	43.667	ug/L
|	Ba	135	20.000	ug/L
|>	Tb	159	211870.271	ug/L
|	Tl r	205	837.721	ug/L
|	Tl	203	337.344	ug/L
|	U	238	30.667	ug/L
⌊	Pb	208	504.012	ug/L
⌈	Na	23	21260.554	mg/L
|	Mg	24	709.040	mg/L
|	K	39	458015.620	mg/L
|	Ca	44	10752.953	mg/L
|	Fe	54	21271.210	mg/L
⌊>	Sc-1	45	293669.979	ug/L
	Kr	83	70.334	ug/L
	Cl	35	26810658.688	mg/L
	C	12	304308.241	mg/L
	Y	89	167906.034	ug/L
⌈	Br	79	1887.917	ug/L
|	Br	81	13439.866	ug/L
⌊>	Ge-1	72	86530.566	ug/L
	Ru	99	2.667	ug/L
	Pd	105	1950.934	ug/L
	Ho	165	208038.839	ug/L
	Th	232	763.380	ug/L
⌈	Mo	95	105.335	ug/L
|	Mo	97	68.001	ug/L
|	Mo r	98	175.116	ug/L
|	Rh	103	2.667	ug/L
⌊>	In-1	115	175404.076	ug/L
	Ti	47	183.004	ug/L
	Li	7	22382.421	mg/L

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Blank

Sample Description:
Autosampler Position: 1
Sample Date/Time: Monday, February 13, 2012 09:58:28
Dataset File: C:\Elandata\Dataset\EL120213\Blank.012
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	2.333			ug/L	
|>	Li u	6	343542.862			ug/L	
⌊	Li	6	341727.648			ug/L	
⌈	Be	9	2.333			ug/L	
|	B	11	142.669			ug/L	
|	Al	27	1507.830			ug/L	
|>	Sc	45	293669.979			ug/L	
|	V r	51	-1609.015			ug/L	
|	V u	51	90091.537			ug/L	
|	Cr r	52	8054.295			ug/L	
|	Cr	53	31139.892			ug/L	
|	Mn	55	367.679			ug/L	
|	Co	59	42.001			ug/L	
|	Ni r	60	78.001			ug/L	
|	Ni	62	85.668			ug/L	
|	Cu r	63	199.338			ug/L	
⌊	Cu	65	89.668			ug/L	
⌈	Zn r	66	205.671			ug/L	
|	Zn	67	2553.783			ug/L	
|	Zn	68	362.345			ug/L	
|>	Ge	72	86530.566			ug/L	
|	As r	75	-352.353			ug/L	
|	As u	75	4067.450			ug/L	
|	Se r	82	4.722			ug/L	
|	Se	77	1367.597			ug/L	
⌊	Sr	88	183.337			ug/L	
⌈	Ag r	107	30.334			ug/L	
|	Ag	109	29.667			ug/L	
|	Cd r	111	143.360			ug/L	
|	Cd	106	-2210.438			ug/L	
|	Cd	108	-2310.098			ug/L	
|	Cd	114	14.760			ug/L	
|	Cd u	111	9.667			ug/L	
|>	In	115	175404.076			ug/L	
|	Sb r	123	34.164			ug/L	
⌊	Sb	121	33.000			ug/L	

⌈	Sn	118	195.338	ug/L
|	Sn r	120	255.674	ug/L
|	Ba r	137	43.667	ug/L
|	Ba	135	20.000	ug/L
|>	Tb	159	211870.271	ug/L
|	Tl r	205	837.721	ug/L
|	Tl	203	337.344	ug/L
|	U	238	30.667	ug/L
⌊	Pb	208	504.012	ug/L
⌈	Na	23	21260.554	mg/L
|	Mg	24	709.040	mg/L
|	K	39	458015.620	mg/L
|	Ca	44	10752.953	mg/L
|	Fe	54	21271.210	mg/L
⌊>	Sc-1	45	293669.979	ug/L
	Kr	83	70.334	ug/L
	Cl	35	26810658.688	mg/L
	C	12	304308.241	mg/L
	Y	89	167906.034	ug/L
⌈	Br	79	1887.917	ug/L
|	Br	81	13439.866	ug/L
⌊>	Ge-1	72	86530.566	ug/L
	Ru	99	2.667	ug/L
	Pd	105	1950.934	ug/L
	Ho	165	208038.839	ug/L
	Th	232	763.380	ug/L
⌈	Mo	95	105.335	ug/L
|	Mo	97	68.001	ug/L
|	Mo r	98	175.116	ug/L
|	Rh	103	2.667	ug/L
⌊>	In-1	115	175404.076	ug/L
	Ti	47	183.004	ug/L
	Li	7	22382.421	mg/L

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Blank

Sample Description:
Autosampler Position: 1
Sample Date/Time: Monday, February 13, 2012 09:58:28
Dataset File: C:\Elandata\Dataset\EL120213\Blank.012
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	2.333			ug/L	
|>	Li u	6	343542.862			ug/L	
⌊	Li	6	341727.648			ug/L	
⌈	Be	9	2.333			ug/L	
|	B	11	142.669			ug/L	
|	Al	27	1507.830			ug/L	
|>	Sc	45	293669.979			ug/L	
|	V r	51	-1609.015			ug/L	
|	V u	51	90091.537			ug/L	
|	Cr r	52	8054.295			ug/L	
|	Cr	53	31139.892			ug/L	
|	Mn	55	367.679			ug/L	
|	Co	59	42.001			ug/L	
|	Ni r	60	78.001			ug/L	
|	Ni	62	85.668			ug/L	
|	Cu r	63	199.338			ug/L	
⌊	Cu	65	89.668			ug/L	
⌈	Zn r	66	205.671			ug/L	
|	Zn	67	2553.783			ug/L	
|	Zn	68	362.345			ug/L	
|>	Ge	72	86530.566			ug/L	
|	As r	75	-352.353			ug/L	
|	As u	75	4067.450			ug/L	
|	Se r	82	4.722			ug/L	
|	Se	77	1367.597			ug/L	
⌊	Sr	88	183.337			ug/L	
⌈	Ag r	107	30.334			ug/L	
|	Ag	109	29.667			ug/L	
|	Cd r	111	143.360			ug/L	
|	Cd	106	-2210.438			ug/L	
|	Cd	108	-2310.098			ug/L	
|	Cd	114	14.760			ug/L	
|	Cd u	111	9.667			ug/L	
|>	In	115	175404.076			ug/L	
|	Sb r	123	34.164			ug/L	
⌊	Sb	121	33.000			ug/L	

⌈	Sn	118	3717.935	564.360	**0.872**	ug/L	1.267
|	Sn r	120	5148.108	765.047	**0.885**	ug/L	3.844
|	Ba r	137	1607.851	57.334	**0.834**	ug/L	3.092
|	Ba	135	932.399	33.000	**0.831**	ug/L	3.345
|>	Tb	159	212856.427	267550.098		ug/L	
|	Tl r	205	9111.160	935.737	**0.743**	ug/L	4.696
|	Tl	203	3746.285	383.014	**0.739**	ug/L	5.322
|	U	238	15764.965	57.001	**0.836**	ug/L	0.653
⌊	Pb	208	12888.344	1308.724	**0.819**	ug/L	1.659
⌈	Na	23	386049.008	27927.886	**0.083**	mg/L	0.728
|	Mg	24	228384.296	1110.425	**0.075**	mg/L	0.369
|	K	39	1002174.403	530176.965	**0.076**	mg/L	0.870
|	Ca	44	26364.038	14706.867	**0.069**	mg/L	1.592
|	Fe	54	58358.630	239394.145	**-0.271**	mg/L	0.338
⌊>	Sc-1	45	299684.680	365487.350		ug/L	
	Kr	83	76.334	298.009		ug/L	
	Cl	35	26932482.249	28076946.929		mg/L	
	C	12	323766.007	504311.096		mg/L	
	Y	89	168559.062	209261.278		ug/L	
⌈	Br	79	1951.267	2000.280	**1.412**	ug/L	26.513
⌊	Br	81	13216.815	13205.129	**9.970**	ug/L	16.503
⌊>	Ge-1	72	87311.260	104496.690		ug/L	
	Ru	99	1.000	3.000		ug/L	
	Pd	105	2009.616	2256.687		ug/L	
	Ho	165	207530.344	258270.522		ug/L	
	Th	232	13495.311	1444.491	**0.648**	ug/L	4.863
⌈	Mo	95	1699.205	124.336	**0.824**	ug/L	2.582
|	Mo	97	1087.421	82.001	**0.827**	ug/L	1.266
|	Mo r	98	2866.119	191.820	**0.835**	ug/L	2.214
|	Rh	103	3.000	7.333		ug/L	
⌊>	In-1	115	179593.180	222156.218		ug/L	
	Ti	47	188.004	246.006		ug/L	
	Li	7	22680.628	25433.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
QC Std 7	V u 51	LCV (DC1, TV 0.8) is out of limits (+/- 50%)
QC Std 7	Cr 53	LCV (DC1, TV 0.8) is out of limits (+/- 50%)
QC Std 7	Zn 67	LCV (DC1, TV 0.8) is out of limits (+/- 50%)
QC Std 7	As u 75	LCV (DC1, TV 0.8) is out of limits (+/- 50%)
QC Std 7	Cd 106	LCV (DC1, TV 0.8) is out of limits (+/- 50%)
QC Std 7	Cd 108	LCV (DC1, TV 0.8) is out of limits (+/- 50%)
QC Std 7	Fe 54	LCV (DC1, TV 0.8) is out of limits (+/- 50%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 7

Sample Description:
Autosampler Position: 10
Sample Date/Time: Monday, February 13, 2012 09:53:27
Dataset File: C:\Elandata\Dataset\EL120213\QC Std 7.011
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL [illegible].mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	268.674	1.667	**0.852**	ug/L	10.092
|>	Li u	6	347857.088	401195.259		ug/L	
⌊	Li	6	346017.689	399132.624		ug/L	
⌈	Be	9	268.674	1.667	**0.910**	ug/L	9.408
|	B	11	506.022	106.002	**1.147**	ug/L	11.113
|	Al	27	4922.624	2247.684	**0.787**	ug/L	0.829
|>	Sc	45	299684.680	365487.350		ug/L	
|	V r	51	4313.994	-1726.823	**0.877**	ug/L	34.359
|	V u	51	92852.555	90243.389	2.829	ug/L	9.072
|	Cr r	52	12584.748	9686.861	0.845	ug/L	3.196
|	Cr	53	30902.637	31487.463	**7.688**	ug/L	15.592
|	Mn	55	7897.465	1805.564	**0.734**	ug/L	1.451
|	Co	59	5350.914	42.334	0.865	ug/L	1.223
|	Ni r	60	1170.101	194.004	0.801	ug/L	2.742
|	Ni	62	234.673	110.669	0.801	ug/L	9.659
|	Cu r	63	2467.420	294.342	**0.884**	ug/L	1.533
⌊	Cu	65	1151.431	142.669	0.891	ug/L	3.571
⌈	Zn r	66	848.722	277.341	0.909	ug/L	4.808
|	Zn	67	2556.117	1878.583	7.563	ug/L	2.797
|	Zn	68	840.721	390.014	**1.030**	ug/L	6.544
|>	Ge	72	87311.260	104496.690		ug/L	
|	As r	75	699.251	142.792	0.628	ug/L	18.315
|	As u	75	4807.884	6054.443	-0.287	ug/L	27.139
|	Se r	82	99.672	-10.258	1.086	ug/L	12.475
|	Se	77	1427.230	1791.630	-0.993	ug/L	4.179
⌊	Sr	88	10392.790	199.671	0.835	ug/L	2.636
⌈	Ag r	107	4302.246	38.000	0.634	ug/L	2.299
|	Ag	109	4138.154	33.667	0.641	ug/L	1.150
|	Cd r	111	1196.466	181.318	0.845	ug/L	5.996
|	Cd	106	-2181.256	-2532.319	-1.223	ug/L	54.286
|	Cd	108	-2304.633	-2672.068	-1.734	ug/L	66.207
|	Cd	114	2439.374	16.861	0.849	ug/L	1.040
|	Cd u	111	1066.085	8.000	0.848	ug/L	4.334
|>	In	115	179593.180	222156.218		ug/L	
|	Sb r	123	2570.407	57.455	0.808	ug/L	4.316
⌊	Sb	121	3416.126	65.001	0.817	ug/L	3.806

⌈	Sn	118	1795.561	564.360	**0.360**	ug/L	3.114
|	Sn r	120	2415.737	765.047	**0.353**	ug/L	5.174
|	Ba r	137	855.389	57.334	**0.433**	ug/L	1.867
|	Ba	135	478.353	33.000	**0.416**	ug/L	6.924
|>	Tb	159	212416.066	267550.098		ug/L	
|	Tl r	205	5134.101	935.737	**0.391**	ug/L	6.713
|	Tl	203	2069.299	383.014	**0.380**	ug/L	4.455
|	U	238	7974.878	57.001	**0.423**	ug/L	1.035
⌊	Pb	208	6766.223	1308.724	**0.397**	ug/L	1.673
⌈	Na	23	201777.574	27927.886	**0.042**	mg/L	2.050
|	Mg	24	114204.015	1110.425	**0.038**	mg/L	1.455
|	K	39	729955.111	530176.965	**0.041**	mg/L	2.615
|	Ca	44	18866.301	14706.867	**0.035**	mg/L	2.377
|	Fe	54	39760.078	239394.145	**-0.306**	mg/L	0.343
⌊>	Sc-1	45	294673.973	365487.350		ug/L	
	Kr	83	70.334	298.009		ug/L	
	Cl	35	26501136.602	28076946.929		mg/L	
	C	12	316504.709	504311.096		mg/L	
	Y	89	166575.374	209261.278		ug/L	
⌈	Br	79	1851.908	2000.280	**0.980**	ug/L	24.251
|	Br	81	13162.724	13205.129	**10.172**	ug/L	21.035
⌊>	Ge-1	72	86673.461	104496.690		ug/L	
	Ru	99	2.000	3.000		ug/L	
	Pd	105	1911.590	2256.687		ug/L	
	Ho	165	206136.610	258270.522		ug/L	
	Th	232	6238.269	1444.491	**0.258**	ug/L	10.683
⌈	Mo	95	1018.078	124.336	**0.479**	ug/L	7.306
|	Mo	97	648.701	82.001	**0.478**	ug/L	5.946
|	Mo r	98	1743.957	191.820	**0.495**	ug/L	4.715
|	Rh	103	5.333	7.333		ug/L	
⌊>	In-1	115	177587.455	222156.218		ug/L	
	Ti	47	197.671	246.006		ug/L	
	Li	7	22111.961	25433.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
QC Std 6	B	11	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	V u	51	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Cr	53	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Zn	67	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Zn	68	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	As r	75	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	As u	75	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Cd	106	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Cd	108	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Fe	54	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Br	79	LCV (DC1, TV 0.4) is out of limits (+/- 50%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 6

Sample Description:
Autosampler Position: 9
Sample Date/Time: Monday, February 13, 2012 09:48:31
Dataset File: C:\Elandata\Dataset\EL120213\QC Std 6.010
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	122.336	1.667	0.396	ug/L	19.761
|>	Li u	6	337739.737	401195.259		ug/L	
⌊	Li	6	335946.457	399132.624		ug/L	
⌈	Be	9	122.336	1.667	0.419	ug/L	20.739
|	B	11	412.015	106.002	0.909	ug/L	10.346
|	Al	27	3363.102	2247.684	0.403	ug/L	1.020
|>	Sc	45	294673.973	365487.350		ug/L	
|	V r	51	1432.582	-1726.823	0.439	ug/L	71.432
|	V u	51	89439.995	90243.389	2.544	ug/L	13.828
|	Cr r	52	10214.887	9686.861	0.445	ug/L	11.304
|	Cr	53	29710.272	31487.463	6.646	ug/L	13.800
|	Mn	55	4075.454	1805.564	0.305	ug/L	0.728
|	Co	59	2710.171	42.334	0.443	ug/L	1.308
|	Ni r	60	652.701	194.004	0.400	ug/L	1.103
|	Ni	62	165.670	110.669	0.432	ug/L	2.986
|	Cu r	63	1358.800	294.342	0.453	ug/L	5.493
⌊	Cu	65	632.699	142.669	0.453	ug/L	4.075
⌈	Zn r	66	546.358	277.341	0.470	ug/L	13.275
|	Zn	67	2368.723	1878.583	6.256	ug/L	19.394
|	Zn	68	628.032	390.014	0.613	ug/L	3.250
|>	Ge	72	86673.461	104496.690		ug/L	
|	As r	75	106.971	142.792	-0.013	ug/L	663.310
|	As u	75	4266.560	6054.443	-0.869	ug/L	14.307
|	Se r	82	47.723	-10.258	0.568	ug/L	17.665
|	Se	77	1330.923	1791.630	-2.222	ug/L	22.653
⌊	Sr	88	5307.884	199.671	0.423	ug/L	1.559
⌈	Ag r	107	2251.019	38.000	0.439	ug/L	2.598
|	Ag	109	2084.970	33.667	0.426	ug/L	4.189
|	Cd r	111	681.367	181.318	0.437	ug/L	11.693
|	Cd	106	-2100.283	-2532.319	-0.695	ug/L	141.240
|	Cd	108	-2230.811	-2672.068	-1.143	ug/L	95.928
|	Cd	114	1249.955	16.861	0.438	ug/L	4.348
|	Cd u	111	535.357	8.000	0.428	ug/L	9.499
|>	In	115	177587.455	222156.218		ug/L	
|	Sb r	123	1320.624	57.455	0.413	ug/L	1.566
⌊	Sb	121	1750.217	65.001	0.417	ug/L	2.188

⌈	Sn	118	283.341	564.360	**-0.042**	ug/L	14.098
|	Sn r	120	402.681	765.047	**-0.037**	ug/L	10.906
|	Ba r	137	187683.076	57.334	**103.613**	ug/L	1.445
|	Ba	135	109496.279	33.000	**103.965**	ug/L	0.734
|>	Tb	159	205657.742	267550.098		ug/L	
|	Tl r	205	1075932.408	935.737	**98.882**	ug/L	0.833
|	Tl	203	455625.014	383.014	**101.198**	ug/L	1.433
|	U	238	58.667	57.001	**0.001**	ug/L	64.566
L	Pb	208	1438930.516	1308.724	**102.886**	ug/L	1.913
⌈	Na	23	466759.510	27927.886	**0.099**	mg/L	0.472
|	Mg	24	279774.360	1110.425	**0.089**	mg/L	0.728
|	K	39	8382231.726	530176.965	**1.039**	mg/L	1.480
|	Ca	44	35479.321	14706.867	**0.109**	mg/L	1.441
|	Fe	54	68087.066	239394.145	**-0.255**	mg/L	0.502
L>	Sc-1	45	307468.284	365487.350		ug/L	
	Kr	83	74.668	298.009		ug/L	
	Cl	35	24893516.789	28076946.929		mg/L	
	C	12	313707.432	504311.096		mg/L	
	Y	89	163886.597	209261.278		ug/L	
⌈	Br	79	1790.226	2000.280	**0.707**	ug/L	44.287
|	Br	81	13028.499	13205.129	**9.781**	ug/L	16.124
L>	Ge-1	72	86315.493	104496.690		ug/L	
	Ru	99	23.334	3.000		ug/L	
	Pd	105	2042.625	2256.687		ug/L	
	Ho	165	200572.601	258270.522		ug/L	
	Th	232	5124.679	1444.491	**0.198**	ug/L	65.954
⌈	Mo	95	188102.669	124.336	**101.780**	ug/L	1.478
|	Mo	97	120660.884	82.001	**102.651**	ug/L	1.974
|	Mo r	98	315365.527	191.820	**101.998**	ug/L	2.640
|	Rh	103	89.335	7.333		ug/L	
L>	In-1	115	170982.746	222156.218		ug/L	
	Ti	47	46773.250	246.006		ug/L	
	Li	7	135641.214	25433.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
QC Std 5	B	11	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Zn r	66	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Zn	67	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Zn	68	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Se r	82	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	U	238	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Mg	24	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Fe	54	SCV (LVM) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 5

Sample Description:
Autosampler Position: 5
Sample Date/Time: Monday, February 13, 2012 09:42:53
Dataset File: C:\Elandata\Dataset\EL120213\QC Std 5.009
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	32766.312	1.667	105.757	ug/L	2.391
|>	Li u	6	343455.636	401195.259		ug/L	
⌊	Li	6	332455.134	399132.624		ug/L	
⌈	Be	9	32766.312	1.667	108.717	ug/L	2.291
|	B	11	41725.950	106.002	111.033	ug/L	1.351
|	Al	27	386450.138	2247.684	95.789	ug/L	0.982
|>	Sc	45	307468.284	365487.350		ug/L	
|	V r	51	671805.367	-1726.823	100.412	ug/L	0.541
|	V u	51	765176.667	90243.389	100.854	ug/L	1.224
|	Cr r	52	586560.958	9686.861	102.645	ug/L	1.274
|	Cr	53	96590.059	31487.463	103.423	ug/L	3.165
|	Mn	55	929416.626	1805.564	103.450	ug/L	0.840
|	Co	59	660741.131	42.334	104.808	ug/L	0.740
|	Ni r	60	132137.946	194.004	101.955	ug/L	0.178
|	Ni	62	19286.676	110.669	104.014	ug/L	1.067
|	Cu r	63	270924.714	294.342	104.772	ug/L	1.274
⌊	Cu	65	125671.169	142.669	105.356	ug/L	0.972
⌈	Zn r	66	75701.776	277.341	112.469	ug/L	2.126
|	Zn	67	15753.272	1878.583	110.163	ug/L	1.549
|	Zn	68	55976.828	390.014	112.603	ug/L	1.986
|>	Ge	72	86315.493	104496.690		ug/L	
|	As r	75	96805.969	142.792	105.920	ug/L	1.604
|	As u	75	97044.272	6054.443	106.293	ug/L	1.366
|	Se r	82	11014.115	-10.258	111.874	ug/L	1.768
|	Se	77	9496.461	1791.630	115.427	ug/L	1.822
⌊	Sr	88	1224134.888	199.671	101.087	ug/L	1.645
⌈	Ag r	107	226793.419	38.000	46.514	ug/L	1.361
|	Ag	109	215329.968	33.667	46.266	ug/L	1.742
|	Cd r	111	127055.392	181.318	107.236	ug/L	0.656
|	Cd	106	9370.609	-2532.319	108.164	ug/L	0.553
|	Cd	108	6351.004	-2672.068	105.666	ug/L	1.777
|	Cd	114	290994.441	16.861	107.039	ug/L	0.944
|	Cd u	111	127398.267	8.000	107.078	ug/L	0.767
|>	In	115	170982.746	222156.218		ug/L	
|	Sb r	123	311221.896	57.455	104.673	ug/L	1.185
⌊	Sb	121	408594.803	65.001	104.215	ug/L	2.013

⌈	Sn	118	348.011	564.360	-0.028	ug/L	9.166
|	Sn r	120	468.019	765.047	-0.029	ug/L	28.191
|	Ba r	137	38.667	57.334	-0.004	ug/L	21.436
|	Ba	135	25.000	33.000	-0.001	ug/L	275.020
|>	Tb	159	215505.880	267550.098		ug/L	
|	Tl r	205	1991.281	935.737	0.109	ug/L	22.535
|	Tl	203	835.388	383.014	0.112	ug/L	19.921
|	U	238	87.668	57.001	0.002	ug/L	22.570
⌊	Pb	208	591.348	1308.724	-0.032	ug/L	15.916
⌈	Na	23	23836.783	27927.886	0.000	mg/L	29.501
|	Mg	24	1061.417	1110.425	0.000	mg/L	1.657
|	K	39	465973.188	530176.965	0.004	mg/L	5.882
|	Ca	44	10682.186	14706.867	-0.007	mg/L	7.904
|	Fe	54	21185.945	239394.145	-0.344	mg/L	0.270
⌊>	Sc-1	45	299898.974	365487.350		ug/L	
	Kr	83	65.668	298.009		ug/L	
	Cl	35	26964291.735	28076946.929		mg/L	
	C	12	310661.760	504311.096		mg/L	
	Y	89	172937.179	209261.278		ug/L	
⌈	Br	79	1942.265	2000.280	1.295	ug/L	17.620
|	Br	81	13552.397	13205.129	11.037	ug/L	7.551
⌊>	Ge-1	72	87982.940	104496.690		ug/L	
	Ru	99	1.000	3.000		ug/L	
	Pd	105	2057.296	2256.687		ug/L	
	Ho	165	208772.955	258270.522		ug/L	
	Th	232	1594.182	1444.491	0.008	ug/L	107.416
⌈	Mo	95	154.670	124.336	0.028	ug/L	29.968
|	Mo	97	102.668	82.001	0.030	ug/L	19.685
|	Mo r	98	244.045	191.820	0.027	ug/L	27.235
|	Rh	103	9.000	7.333		ug/L	
⌊>	In-1	115	179442.890	222156.218		ug/L	
	Ti	47	176.004	246.006		ug/L	
	Li	7	22563.613	25433.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
QC Std 4	V u 51	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cr 53	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Zn 67	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	As r 75	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	As u 75	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cd 106	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cd 108	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Fe 54	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br 79	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br 81	IBL (LCB) is out of limits (+/- 0.400ug/L)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 4

Sample Description:
Autosampler Position: 1
Sample Date/Time: Monday, February 13, 2012 09:37:40
Dataset File: C:\Elandata\Dataset\EL120213\QC Std 4.008
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

AS

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	0.667	1.667	-0.002	ug/L	74.034
|>	Li u	6	345287.902	401195.259		ug/L	
L	Li	6	343457.993	399132.624		ug/L	
⌈	Be	9	0.667	1.667	-0.002	ug/L	82.189
|	B	11	228.339	106.002	0.386	ug/L	18.117
|	Al	27	1653.528	2247.684	-0.049	ug/L	14.176
|>	Sc	45	299898.974	365487.350		ug/L	
|	V r	51	-1165.693	-1726.823	0.038	ug/L	724.635
|	V u	51	81392.795	90243.389	1.100	ug/L	60.240
|	Cr r	52	7723.955	9686.861	-0.041	ug/L	74.871
|	Cr	53	28697.775	31487.463	4.325	ug/L	37.707
|	Mn	55	367.012	1805.564	-0.127	ug/L	0.533
|	Co	59	40.667	42.334	0.001	ug/L	67.888
|	Ni r	60	79.335	194.004	-0.063	ug/L	21.860
|	Ni	62	84.335	110.669	-0.036	ug/L	92.214
|	Cu r	63	225.006	294.342	-0.007	ug/L	124.580
L	Cu	65	110.002	142.669	-0.006	ug/L	87.222
⌈	Zn r	66	207.005	277.341	-0.039	ug/L	54.115
|	Zn	67	2160.326	1878.583	4.397	ug/L	15.732
|	Zn	68	335.344	390.014	0.014	ug/L	308.294
|>	Ge	72	87982.940	104496.690		ug/L	
|	As r	75	-301.880	142.792	-0.452	ug/L	32.097
|	As u	75	3867.679	6054.443	-1.393	ug/L	12.253
|	Se r	82	4.096	-10.258	0.128	ug/L	111.196
|	Se	77	1308.621	1791.630	-2.823	ug/L	3.118
L	Sr	88	178.004	199.671	0.001	ug/L	119.621
⌈	Ag r	107	62.334	38.000	0.006	ug/L	35.362
|	Ag	109	51.001	33.667	0.005	ug/L	75.615
|	Cd r	111	156.602	181.318	0.008	ug/L	63.279
|	Cd	106	-2324.282	-2532.319	-2.539	ug/L	29.081
|	Cd	108	-2437.465	-2672.068	-3.343	ug/L	25.088
|	Cd	114	17.998	16.861	0.002	ug/L	93.799
|	Cd u	111	9.000	8.000	0.002	ug/L	66.866
|>	In	115	179442.890	222156.218		ug/L	
|	Sb r	123	44.661	57.455	-0.001	ug/L	283.724
L	Sb	121	57.001	65.001	0.001	ug/L	289.332

⌈	Sn	118	189678.429	564.360	**51.039**	ug/L	1.567
|	Sn r	120	256961.281	765.047	**50.530**	ug/L	1.219
|	Ba r	137	94074.162	57.334	**50.712**	ug/L	0.730
|	Ba	135	54690.956	33.000	**50.710**	ug/L	1.254
|>	Tb	159	210567.637	267550.098		ug/L	
|	Tl r	205	539250.698	935.737	**48.374**	ug/L	1.230
|	Tl	203	223940.383	383.014	**48.539**	ug/L	0.528
|	U	238	930099.829	57.001	**50.030**	ug/L	2.034
⌊	Pb	208	728171.464	1308.724	**50.811**	ug/L	0.459
⌈	Na	23	23586099.995	27927.886	**5.227**	mg/L	3.188
|	Mg	24	16603852.813	1110.425	**5.289**	mg/L	1.262
|	K	39	40884518.203	530176.965	**5.260**	mg/L	0.806
|	Ca	44	995453.444	14706.867	**4.619**	mg/L	0.990
|	Fe	54	2944407.506	239394.145	**5.211**	mg/L	1.785
⌊>	Sc-1	45	309514.200	365487.350		ug/L	
	Kr	83	98.335	298.009		ug/L	
	Cl	35	28017614.343	28076946.929		mg/L	
	C	12	366168.787	504311.096		mg/L	
	Y	89	169880.400	209261.278		ug/L	
⌈	Br	79	11936.377	2000.280	**51.311**	ug/L	1.584
|	Br	81	23390.414	13205.129	**55.483**	ug/L	1.533
⌊>	Ge-1	72	88078.296	104496.690		ug/L	
	Ru	99	17.000	3.000		ug/L	
	Pd	105	2063.298	2256.687		ug/L	
	Ho	165	204355.314	258270.522		ug/L	
	Th	232	875724.076	1444.491	**47.011**	ug/L	0.708
⌈	Mo	95	97066.989	124.336	**50.576**	ug/L	1.533
|	Mo	97	62383.235	82.001	**51.104**	ug/L	1.073
|	Mo r	98	162899.378	191.820	**50.735**	ug/L	2.127
|	Rh	103	50.334	7.333		ug/L	
⌊>	In-1	115	177449.439	222156.218		ug/L	
	Ti	47	223.672	246.006		ug/L	
	Li	7	22103.935	25433.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
QC Std 2	Zn	67	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Se r	82	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Br	81	CCV (CLC) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Monday, February 13, 2012 09:30:54
Dataset File: C:\Elandata\Dataset\EL120213\QC Std 2.007
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

Rerun ✓ Se high

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	15975.734	1.667	52.310	ug/L	2.303
|>	Li u	6	338552.798	401195.259		ug/L	
⌊	Li	6	336760.168	399132.624		ug/L	
⌈	Be	9	15975.734	1.667	52.661	ug/L	2.611
|	B	11	20148.560	106.002	53.144	ug/L	2.592
|	Al	27	209611.267	2247.684	51.400	ug/L	1.009
|>	Sc	45	309514.200	365487.350		ug/L	
|	V r	51	339073.484	-1726.823	50.462	ug/L	2.216
|	V u	51	428574.314	90243.389	51.193	ug/L	1.789
|	Cr r	52	298398.927	9686.861	51.160	ug/L	1.010
|	Cr	53	62998.913	31487.463	53.247	ug/L	1.708
|	Mn	55	465633.603	1805.564	51.401	ug/L	0.623
|	Co	59	326255.713	42.334	51.408	ug/L	1.494
|	Ni r	60	67020.030	194.004	51.315	ug/L	1.606
|	Ni	62	9538.341	110.669	50.842	ug/L	1.797
|	Cu r	63	134198.519	294.342	51.509	ug/L	1.008
⌊	Cu	65	61973.952	142.669	51.561	ug/L	0.671
⌈	Zn r	66	37742.429	277.341	54.763	ug/L	0.836
|	Zn	67	8900.238	1878.583	55.609	ug/L	2.697
|	Zn	68	27655.240	390.014	54.170	ug/L	0.597
|>	Ge	72	88078.296	104496.690		ug/L	
|	As r	75	49261.358	142.792	52.755	ug/L	2.026
|	As u	75	51231.550	6054.443	52.200	ug/L	1.091
|	Se r	82	5557.946	-10.258	55.365	ug/L	1.800
|	Se	77	5351.213	1791.630	54.184	ug/L	1.683
⌊	Sr	88	631387.341	199.671	51.085	ug/L	1.279
⌈	Ag r	107	258632.054	38.000	51.106	ug/L	0.327
|	Ag	109	248690.976	33.667	51.489	ug/L	0.966
|	Cd r	111	63652.997	181.318	51.704	ug/L	1.541
|	Cd	106	3433.069	-2532.319	50.232	ug/L	1.623
|	Cd	108	1999.418	-2672.068	50.049	ug/L	4.237
|	Cd	114	145771.146	16.861	51.663	ug/L	0.491
|	Cd u	111	63869.711	8.000	51.722	ug/L	1.201
|>	In	115	177449.439	222156.218		ug/L	
|	Sb r	123	155712.816	57.455	50.456	ug/L	1.722
⌊	Sb	121	203176.624	65.001	49.922	ug/L	0.708

⌈	Sn	118	192801.241	564.360	**51.585**	ug/L	1.252
|	Sn r	120	260557.378	765.047	**50.951**	ug/L	2.173
|	Ba r	137	96442.527	57.334	**51.708**	ug/L	2.878
|	Ba	135	55593.728	33.000	**51.254**	ug/L	1.210
|>	Tb	159	211773.750	267550.098		ug/L	
|	Tl r	205	554026.490	935.737	**49.414**	ug/L	1.659
|	Tl	203	228856.157	383.014	**49.332**	ug/L	1.312
|	U	238	935815.752	57.001	**50.050**	ug/L	1.403
⌊	Pb	208	736854.424	1308.724	**51.134**	ug/L	1.656
⌈	Na	23	23885832.519	27927.886	**5.280**	mg/L	0.106
|	Mg	24	16536689.610	1110.425	**5.255**	mg/L	1.116
|	K	39	40944082.194	530176.965	**5.255**	mg/L	0.787
|	Ca	44	1006880.119	14706.867	**4.663**	mg/L	1.542
|	Fe	54	2918119.987	239394.145	**5.150**	mg/L	1.510
⌊>	Sc-1	45	310224.061	365487.350		ug/L	
	Kr	83	256.674	298.009		ug/L	
	Cl	35	27984676.862	28076946.929		mg/L	
	C	12	419799.678	504311.096		mg/L	
	Y	89	170407.260	209261.278		ug/L	
⌈	Br	79	12309.302	2000.280	**52.928**	ug/L	3.732
|	Br	81	23497.737	13205.129	**55.524**	ug/L	2.578
⌊>	Ge-1	72	88454.893	104496.690		ug/L	
	Ru	99	15.667	3.000		ug/L	
	Pd	105	1997.279	2256.687		ug/L	
	Ho	165	205286.316	258270.522		ug/L	
	Th	232	885932.043	1444.491	**47.560**	ug/L	0.672
⌈	Mo	95	98157.956	124.336	**51.321**	ug/L	0.779
|	Mo	97	62721.631	82.001	**51.556**	ug/L	0.113
|	Mo r	98	164318.860	191.820	**51.350**	ug/L	0.881
|	Rh	103	49.334	7.333		ug/L	
⌊>	In-1	115	176843.687	222156.218		ug/L	
	Ti	47	262.340	246.006		ug/L	
	Li	7	22452.951	25433.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
QC Std 2	Zn r	66	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Zn	67	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Zn	68	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Se r	82	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Br	81	CCV (CLC) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Monday, February 13, 2012 09:24:51
Dataset File: C:\Elandata\Dataset\EL120213\QC Std 2.006
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	16018.489	1.667	52.370	ug/L	0.995
|>	Li u	6	339022.455	401195.259		ug/L	
⌊	Li	6	337201.521	399132.624		ug/L	
⌈	Be	9	16018.489	1.667	52.672	ug/L	0.583
|	B	11	20597.413	106.002	54.207	ug/L	1.823
|	Al	27	209361.481	2247.684	51.214	ug/L	0.912
|>	Sc	45	310224.061	365487.350		ug/L	
|	V r	51	339535.680	-1726.823	50.403	ug/L	0.716
|	V u	51	430360.315	90243.389	51.299	ug/L	0.611
|	Cr r	52	300061.118	9686.861	51.329	ug/L	0.863
|	Cr	53	62958.244	31487.463	52.980	ug/L	2.147
|	Mn	55	471324.091	1805.564	51.918	ug/L	1.716
|	Co	59	327194.392	42.334	51.442	ug/L	1.480
|	Ni r	60	68153.600	194.004	52.065	ug/L	1.473
|	Ni	62	9754.279	110.669	51.894	ug/L	2.036
|	Cu r	63	135722.262	294.342	51.975	ug/L	0.737
⌊	Cu	65	63381.010	142.669	52.619	ug/L	1.636
⌈	Zn r	66	38399.332	277.341	55.487	ug/L	1.422
|	Zn	67	9111.151	1878.583	56.924	ug/L	1.003
|	Zn	68	28220.287	390.014	55.054	ug/L	0.574
|>	Ge	72	88454.893	104496.690		ug/L	
|	As r	75	50041.081	142.792	53.354	ug/L	1.334
|	As u	75	51310.749	6054.443	52.039	ug/L	0.562
|	Se r	82	5680.446	-10.258	56.336	ug/L	0.246
|	Se	77	5292.040	1791.630	53.036	ug/L	0.870
⌊	Sr	88	644756.393	199.671	51.941	ug/L	0.833
⌈	Ag r	107	264677.235	38.000	52.480	ug/L	0.489
|	Ag	109	250624.937	33.667	52.066	ug/L	0.663
|	Cd r	111	64466.205	181.318	52.544	ug/L	2.044
|	Cd	106	3661.319	-2532.319	52.448	ug/L	1.169
|	Cd	108	2149.356	-2672.068	51.957	ug/L	2.459
|	Cd	114	148167.732	16.861	52.692	ug/L	0.672
|	Cd u	111	64647.216	8.000	52.530	ug/L	1.827
|>	In	115	176843.687	222156.218		ug/L	
|	Sb r	123	158480.771	57.455	51.527	ug/L	1.587
⌊	Sb	121	208831.564	65.001	51.488	ug/L	1.833

⌈	Sn	118	391133.983	564.360	99.872	ug/L	6
|	Sn r	120	534982.058	765.047	99.833	ug/L	9
|	Ba r	137	194293.771	57.334	99.321	ug/L	7
|	Ba	135	112992.033	33.000	99.329	ug/L	6
|>	Tb	159	222133.686	267550.098		ug/L	
|	Tl r	205	1119432.700	935.737	95.232	ug/L	61
|	Tl	203	466056.967	383.014	95.826	ug/L	84
|	U	238	1943506.107	57.001	99.085	ug/L	89
⌊	Pb	208	1495352.098	1308.724	98.984	ug/L	52
⌈	Na	23	46940692.496	27927.886	9.973	mg/L	79
|	Mg	24	32585581.861	1110.425	9.948	mg/L	0
|	K	39	80551312.223	530176.965	9.983	mg/L	13
|	Ca	44	2276518.519	14706.867	10.194	mg/L	53
|	Fe	54	5761702.214	239394.145	10.111	mg/L	25
⌊>	Sc-1	45	322979.896	365487.350		ug/L	
	Kr	83	221.006	298.009		ug/L	
	Cl	35	28221781.608	28076946.929		mg/L	
	C	12	436455.754	504311.096		mg/L	
	Y	89	174471.383	209261.278		ug/L	
⌈	Br	79	22420.186	2000.280	99.917	ug/L	75
|	Br	81	34043.863	13205.129	98.367	ug/L	78
⌊>	Ge-1	72	91236.137	104496.690		ug/L	
	Ru	99	25.334	3.000		ug/L	
	Pd	105	2113.979	2256.687		ug/L	
	Ho	165	216715.860	258270.522		ug/L	
	Th	232	1819683.450	1444.491	97.769	ug/L	37
⌈	Mo	95	199325.786	124.336	99.774	ug/L	39
|	Mo	97	126618.589	82.001	99.649	ug/L	80
|	Mo r	98	333580.599	191.820	99.801	ug/L	89
|	Rh	103	107.668	7.333		ug/L	
⌊>	In-1	115	184798.142	222156.218		ug/L	
	Ti	47	326.010	246.006		ug/L	
	Li	7	22901.269	25433.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: OSTAS User
Sample ID tandard 3
Sample Desc on:
Autosampler tion: 4
Sample Date e: Monday, February 13, 2012 09:19:27
Dataset File: landata\Dataset\EL1 0213\Standard 3.005
Optimization C:\Elandata\Optimiz epa.dac
Method File: landata\Method\EPA 008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration F :\Elandata\System\E 120210.cal
Report Title ANTITATIVE ANAL SIS REPORT
analysis 200 r equivalent
SITE: DIM K WO1202003

	Analyte	Ma	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r		31618 163	1.667	100.102	ug/L	1.452
|>	Li u		35015 350	401195.259		ug/L	
⌊	Li		34829 357	399132.624		ug/L	
⌈	Be		31618 163	1.667	99.871	ug/L	1.314
|	B		39611 373	106.002	100.352	ug/L	4.575
|	Al		420157 554	2247.684	99.165	ug/L	0.981
|>	Sc		322979 896	365487.350		ug/L	
|	V r		698935 140	-1726.823	99.447	ug/L	1.071
|	V u		791916 516	90243.389	99.197	ug/L	0.867
|	Cr r		595404 147	9686.861	99.141	ug/L	1.148
|	Cr		98053 399	31487.463	98.641	ug/L	2.536
|	Mn		93545 159	1805.564	99.108	ug/L	1.022
|	Co		655661 073	42.334	99.004	ug/L	0.827
|	Ni r		134545 272	194.004	98.824	ug/L	0.684
|	Ni		19344 157	110.669	99.291	ug/L	1.458
|	Cu r		268579 656	294.342	98.867	ug/L	1.374
⌊	Cu		123867 925	142.669	98.846	ug/L	1.378
⌈	Zn r		71151 087	277.341	99.947	ug/L	0.896
|	Zn		1513 127	1878.583	99.405	ug/L	1.550
|	Zn		5269 37	390.014	100.181	ug/L	1.337
|>	Ge		912 97	104496.690		ug/L	
|	As r		9650 03	142.792	99.929	ug/L	1.459
|	As u		9680 51	6054.443	99.967	ug/L	1.017
|	Se r		10456 258	-10.258	100.460	ug/L	3.076
|	Se		8834 03	1791.630	100.382	ug/L	1.355
⌊	Sr		1268537 325	199.671	99.089	ug/L	1.284
⌈	Ag r		52222 77	38.000	99.030	ug/L	1.720
|	Ag		5002 74	33.667	99.452	ug/L	1.132
|	Cd r		1279	181.318	99.876	ug/L	0.470
|	Cd		91 213	-2532.319	99.940	ug/L	1.984
|	Cd		63	-2672.068	100.054	ug/L	2.079
|	Cd		2930	16.861	99.714	ug/L	1.751
|	Cd u		1284	8.000	99.853	ug/L	0.491
|>	In		184735	222156.218		ug/L	
|	Sb r		32054 17	57.455	99.687	ug/L	1.224
⌊	Sb		42257	65.001	99.652	ug/L	0.602

Report Date/T Monday, February 09:23:04
Page 1
Sample ID: ndard 3

⌈	Sn	118	207266.613	564.360	**49.946**	ug/L	1.399
|	Sn r	120	284182.092	765.047	**49.971**	ug/L	1.040
|	Ba r	137	105720.671	57.334	**49.982**	ug/L	1.539
|	Ba	135	61467.033	33.000	**49.994**	ug/L	1.937
|>	Tb	159	233957.105	267550.098		ug/L	
|	Tl r	205	619264.399	935.737	**49.993**	ug/L	1.378
|	Tl	203	256456.781	383.014	**50.038**	ug/L	0.575
|	U	238	1067908.581	57.001	**49.937**	ug/L	1.177
⌊	Pb	208	826284.040	1308.724	**49.949**	ug/L	1.078
⌈	Na	23	24502561.828	27927.886	**5.002**	mg/L	1.287
|	Mg	24	17196740.274	1110.425	**5.000**	mg/L	1.070
|	K	39	42055772.203	530176.965	**5.002**	mg/L	1.312
|	Ca	44	1070598.739	14706.867	**4.997**	mg/L	0.575
|	Fe	54	3055838.736	239394.145	**5.023**	mg/L	1.058
⌊>	Sc-1	45	332447.645	365487.350		ug/L	
	Kr	83	124.336	298.009		ug/L	
	Cl	35	28418278.501	28076946.929		mg/L	
	C	12	415964.164	504311.096		mg/L	
	Y	89	183313.580	209261.278		ug/L	
⌈	Br	79	12516.300	2000.280	**49.949**	ug/L	1.777
|	Br	81	24442.356	13205.129	**49.870**	ug/L	5.507
⌊>	Ge-1	72	94274.184	104496.690		ug/L	
	Ru	99	14.000	3.000		ug/L	
	Pd	105	2098.307	2256.687		ug/L	
	Ho	165	227386.096	258270.522		ug/L	
	Th	232	1008346.932	1444.491	**49.864**	ug/L	1.102
⌈	Mo	95	105389.830	124.336	**49.925**	ug/L	0.836
|	Mo	97	67358.078	82.001	**49.922**	ug/L	1.229
|	Mo r	98	176123.908	191.820	**49.921**	ug/L	1.590
|	Rh	103	51.001	7.333		ug/L	
⌊>	In-1	115	193515.095	222156.218		ug/L	
	Tl	47	287.008	246.006		ug/L	
	Li	7	23759.208	25433.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Standard 2

Sample Description:

Autosampler Position: 3

Sample Date/Time: Monday, February 13, 2012 09:14:13

Dataset File: C:\Elandata\Dataset\EL120213\Standard 2.004

Optimization File: C:\Elandata\Optimize\epa.dac

Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth

Calibration File: C:\Elandata\System\EL120210.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	16429.691	1.667	50.132	ug/L	1.355
|>	Li u	6	364707.645	401195.259		ug/L	
L	Li	6	362780.774	399132.624		ug/L	
⌈	Be	9	16429.691	1.667	50.168	ug/L	1.631
|	B	11	20181.326	106.002	50.234	ug/L	4.610
|	Al	27	226351.060	2247.684	50.067	ug/L	0.497
|>	Sc	45	332447.645	365487.350		ug/L	
|	V r	51	368257.959	-1726.823	49.960	ug/L	2.437
|	V u	51	462063.887	90243.389	49.892	ug/L	2.684
|	Cr r	52	323302.825	9686.861	49.971	ug/L	1.525
|	Cr	52	66949.752	31487.463	49.682	ug/L	2.651
|	Mn	55	502527.897	1805.564	49.937	ug/L	0.866
|	Co	59	353371.598	42.334	49.932	ug/L	1.773
|	Ni r	60	73276.177	194.004	49.969	ug/L	1.620
|	Ni	60	10331.708	110.669	49.909	ug/L	1.797
|	Cu r	63	145713.631	294.342	49.895	ug/L	1.641
L	Cu	63	67288.704	142.669	49.909	ug/L	1.149
⌈	Zn r	66	37049.413	277.341	50.112	ug/L	3.752
|	Zn	66	8880.546	1878.583	49.901	ug/L	3.528
|	Zn	68	27227.393	390.014	50.138	ug/L	3.625
|>	Ge	72	94274.184	104496.690		ug/L	
|	As r	75	50168.905	142.792	50.049	ug/L	0.730
|	As u	75	52763.890	6054.443	50.056	ug/L	1.616
|	Se r	82	5297.549	-10.258	50.208	ug/L	3.207
|	Se	78	5371.376	1791.630	50.249	ug/L	4.093
L	Sr	88	683519.659	199.671	49.920	ug/L	2.308
⌈	Ag r	107	285477.168	38.000	49.987	ug/L	1.265
|	Ag	109	268707.383	33.667	49.972	ug/L	2.417
|	Cd r	111	67251.670	181.318	50.084	ug/L	1.938
|	Cd	106	3744.838	-2532.319	50.129	ug/L	0.919
|	Cd	108	2887.071	-2672.068	50.235	ug/L	0.958
|	Cd	111	155257.356	16.861	50.075	ug/L	2.338
|	Cd u	111	67243.329	8.000	50.089	ug/L	1.945
|>	In	115	192315.095	222156.218		ug/L	
|	Sb r	121	170401.333	57.455	50.037	ug/L	1.945
L	Sb	121	226060.381	65.001	50.035	ug/L	1.780

⌈	Sn	118	46617.980	564.360	10.000	ug/L	1.689
|	Sn r	120	63109.525	765.047	10.000	ug/L	2.478
|	Ba r	137	23180.440	57.334	10.000	ug/L	0.125
|	Ba	135	13393.786	33.000	10.000	ug/L	1.397
|>	Tb	159	253622.827	267550.098		ug/L	
|	Tl r	205	135481.710	935.737	10.000	ug/L	2.703
|	Tl	203	54804.432	383.014	10.000	ug/L	0.866
|	U	238	239216.057	57.001	10.000	ug/L	1.684
⌊	Pb	208	184900.318	1308.724	10.000	ug/L	0.944
⌈	Na	23	5194394.151	27927.886	1.000	mg/L	1.318
|	Mg	24	3679460.249	1110.425	1.000	mg/L	0.627
|	K	39	9294120.809	530176.965	1.000	mg/L	0.648
|	Ca	44	243396.133	14706.867	1.000	mg/L	0.377
⌊	Fe	54	766236.109	239394.145	1.000	mg/L	2.534
⌊>	Sc-1	45	355199.977	365487.350		ug/L	
	Kr	83	272.341	298.009		ug/L	
	Cl	35	28239378.345	28076946.929		mg/L	
	C	12	504867.332	504311.096		mg/L	
	Y	89	201090.114	209261.278		ug/L	
⌈	Br	79	4293.908	2000.280	10.000	ug/L	4.592
⌊	Br	81	15652.406	13205.129	10.000	ug/L	10.476
⌊>	Ge-1	72	101123.383	104496.690		ug/L	
	Ru	99	2.333	3.000		ug/L	
	Pd	105	2229.679	2256.687		ug/L	
	Ho	165	246874.523	258270.522		ug/L	
	Th	232	217069.788	1444.491	10.000	ug/L	2.085
⌈	Mo	95	24012.328	124.336	10.000	ug/L	0.810
|	Mo	97	15371.497	82.001	10.000	ug/L	0.872
⌊	Mo r	98	40197.830	191.820	10.000	ug/L	2.316
|	Rh	103	18.000	7.333		ug/L	
⌊>	In-1	115	211301.574	222156.218		ug/L	
	Ti	47	262.007	246.006		ug/L	
	Li	7	24541.331	25433.235		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Standard 1

Sample Description:
Autosampler Position: 2
Sample Date/Time: Monday, February 13, 2012 09:09:00
Dataset File: C:\Elandata\Dataset\EL120213\Standard 1.003
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	3207.701	1.667	10.000	ug/L	2.433
|>	Li u	6	382067.216	401195.259		ug/L	
L	Li	6	380076.914	399132.624		ug/L	
Γ	Be	9	3207.701	1.667	10.000	ug/L	2.272
|	B	11	3876.016	106.002	10.000	ug/L	3.535
|	Al	27	48462.365	2247.684	10.000	ug/L	1.654
|>	Sc	45	355199.977	365487.350		ug/L	
|	V r	51	79006.798	-1726.823	10.000	ug/L	1.455
|	V u	51	173512.178	90243.389	10.000	ug/L	2.914
|	Cr r	52	77652.102	9686.861	10.000	ug/L	0.840
|	Cr	53	40154.613	31487.463	10.000	ug/L	4.766
|	Mn	55	112333.887	1805.564	10.000	ug/L	1.430
|	Co	59	78234.991	42.334	10.000	ug/L	1.489
|	Ni r	60	16058.907	194.004	10.000	ug/L	0.677
|	Ni	62	2397.398	110.669	10.000	ug/L	4.024
|	Cu r	63	33060.562	294.342	10.000	ug/L	1.307
L	Cu	65	15170.435	142.669	10.000	ug/L	2.636
Γ	Zn r	66	7705.602	277.341	10.000	ug/L	0.412
|	Zn	67	3438.803	1878.583	10.000	ug/L	7.259
|	Zn	68	5731.526	390.014	10.000	ug/L	0.942
|>	Ge	72	101123.383	104496.690		ug/L	
|	As r	75	10602.217	142.792	10.000	ug/L	1.566
|	As u	75	15735.906	6054.443	10.000	ug/L	1.281
|	Se r	82	1006.077	-10.258	10.000	ug/L	1.238
|	Se	77	2436.031	1791.630	10.000	ug/L	1.956
L	Sr	88	152909.121	199.671	10.000	ug/L	2.040
Γ	Ag r	107	62804.011	38.000	10.000	ug/L	1.441
|	Ag	109	59560.964	33.667	10.000	ug/L	0.641
|	Cd r	111	14250.807	181.318	10.000	ug/L	2.603
|	Cd	106	-1196.101	-2532.319	10.000	ug/L	6.941
|	Cd	108	-1674.994	-2672.068	10.000	ug/L	10.663
|	Cd	114	32660.683	16.861	10.000	ug/L	0.710
|	Cd u	111	14117.424	8.000	10.000	ug/L	2.606
|>	In	115	211301.574	222156.218		ug/L	
|	Sb r	123	36551.205	57.455	10.000	ug/L	0.442
L	Sb	121	48228.197	65.001	10.000	ug/L	0.666

⌈	Sn	118	354.678	ug/L
|	Sn r	120	467.686	ug/L
|	Ba r	137	51.334	ug/L
|	Ba	135	31.000	ug/L
|>	Tb	159	250838.716	ug/L
|	Tl r	205	224.672	ug/L
|	Tl	203	104.335	ug/L
|	U	238	37.667	ug/L
⌊	Pb	208	1430.402	ug/L
⌈	Na	23	28555.199	mg/L
|	Mg	24	922.731	mg/L
|	K	39	520447.560	mg/L
|	Ca	44	12603.120	mg/L
|	Fe	54	160963.814	mg/L
⌊>	Sc-1	45	350170.693	ug/L
	Kr	83	249.340	ug/L
	Cl	35	28174856.977	mg/L
	C	12	450900.209	mg/L
	Y	89	197370.787	ug/L
⌈	Br	79	1905.922	ug/L
|	Br	81	13503.979	ug/L
⌊>	Ge-1	72	100106.853	ug/L
	Ru	99	2.333	ug/L
	Pd	105	2108.643	ug/L
	Ho	165	243388.384	ug/L
	Th	232	85.335	ug/L
⌈	Mo	95	99.335	ug/L
|	Mo	97	73.001	ug/L
|	Mo r	98	165.893	ug/L
|	Rh	103	12.333	ug/L
⌊>	In-1	115	208463.832	ug/L
	Ti	47	215.005	ug/L
	Li	7	24887.803	mg/L

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Blank

Sample Description:
Autosampler Position: 1
Sample Date/Time: Monday, February 13, 2012 08:56:48
Dataset File: C:\Elandata\Dataset\EL120213\Blank.001
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

dont use start with Blank.012

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.333			ug/L	
|>	Li u	6	388148.987			ug/L	
⌊	Li	6	386130.586			ug/L	
⌈	Be	9	1.333			ug/L	
|	B	11	141.003			ug/L	
|	Al	27	1976.274			ug/L	
|>	Sc	45	350170.693			ug/L	
|	V r	51	-2439.475			ug/L	
|	V u	51	79244.869			ug/L	
|	Cr r	52	9340.096			ug/L	
|	Cr	53	27617.273			ug/L	
|	Mn	55	1292.122			ug/L	
|	Co	59	42.667			ug/L	
|	Ni r	60	135.669			ug/L	
|	Ni	62	102.668			ug/L	
|	Cu r	63	414.349			ug/L	
⌊	Cu	65	185.004			ug/L	
⌈	Zn r	66	562.028			ug/L	
|	Zn	67	1068.087			ug/L	
|	Zn	68	520.023			ug/L	
|>	Ge	72	100106.853			ug/L	
|	As r	75	-74.301			ug/L	
|	As u	75	5822.936			ug/L	
|	Se r	82	-10.502			ug/L	
|	Se	77	1796.334			ug/L	
⌊	Sr	88	196.671			ug/L	
⌈	Ag r	107	50.667			ug/L	
|	Ag	109	43.667			ug/L	
|	Cd r	111	162.952			ug/L	
|	Cd	106	-2373.793			ug/L	
|	Cd	108	-2495.977			ug/L	
|	Cd	114	13.819			ug/L	
|	Cd u	111	7.667			ug/L	
|>	In	115	208463.832			ug/L	
|	Sb r	123	49.746			ug/L	
⌊	Sb	121	59.001			ug/L	

⌈	Sn	118	564.360	ug/L
|	Sn r	120	765.047	ug/L
|	Ba r	137	57.334	ug/L
|	Ba	135	33.000	ug/L
|>	Tb	159	267550.098	ug/L
|	Tl r	205	935.737	ug/L
|	Tl	203	383.014	ug/L
|	U	238	57.001	ug/L
⌊	Pb	208	1308.724	ug/L
⌈	Na	23	27927.886	mg/L
|	Mg	24	1110.425	mg/L
|	K	39	530176.965	mg/L
|	Ca	44	14706.867	mg/L
|	Fe	54	239394.145	mg/L
⌊>	Sc-1	45	365487.350	ug/L
	Kr	83	298.009	ug/L
	Cl	35	28076946.929	mg/L
	C	12	504311.096	mg/L
	Y	89	209261.278	ug/L
⌈	Br	79	2000.280	ug/L
|	Br	81	13205.129	ug/L
⌊>	Ge-1	72	104496.690	ug/L
	Ru	99	3.000	ug/L
	Pd	105	2256.687	ug/L
	Ho	165	258270.522	ug/L
	Th	232	1444.491	ug/L
⌈	Mo	95	124.336	ug/L
|	Mo	97	82.001	ug/L
|	Mo r	98	191.820	ug/L
|	Rh	103	7.333	ug/L
⌊>	In-1	115	222156.218	ug/L
	Ti	47	246.006	ug/L
	Li	7	25433.235	mg/L

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Blank

Sample Description:
Autosampler Position: 1
Sample Date/Time: Monday, February 13, 2012 09:03:48
Dataset File: C:\Elandata\Dataset\EL120213\Blank.002
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.667			ug/L	
|>	Li u	6	401195.259			ug/L	
L	Li	6	399132.624			ug/L	
⌈	Be	9	1.667			ug/L	
|	B	11	106.002			ug/L	
|	Al	27	2247.684			ug/L	
|>	Sc	45	365487.350			ug/L	
|	V r	51	-1726.823			ug/L	
|	V u	51	90243.389			ug/L	
|	Cr r	52	9686.861			ug/L	
|	Cr	53	31487.463			ug/L	
|	Mn	55	1805.564			ug/L	
|	Co	59	42.334			ug/L	
|	Ni r	60	194.004			ug/L	
|	Ni	62	110.669			ug/L	
|	Cu r	63	294.342			ug/L	
L	Cu	65	142.669			ug/L	
⌈	Zn r	66	277.341			ug/L	
|	Zn	67	1878.583			ug/L	
|	Zn	68	390.014			ug/L	
|>	Ge	72	104496.690			ug/L	
|	As r	75	142.792			ug/L	
|	As u	75	6054.443			ug/L	
|	Se r	82	-10.258			ug/L	
|	Se	77	1791.630			ug/L	
L	Sr	88	199.671			ug/L	
⌈	Ag r	107	38.000			ug/L	
|	Ag	109	33.667			ug/L	
|	Cd r	111	181.318			ug/L	
|	Cd	106	-2532.319			ug/L	
|	Cd	108	-2672.068			ug/L	
|	Cd	114	16.861			ug/L	
|	Cd u	111	8.000			ug/L	
|>	In	115	222156.218			ug/L	
|	Sb r	123	57.455			ug/L	
L	Sb	121	65.001			ug/L	

Instrument Tuning Report

File Name: epa.tun
File Path: C:\Elandata\Tuning\epa.tun

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.077	615	2080	0.641	
Mg	23.985	23.929	5699	2040	0.657	
Rh	102.905	102.829	24963	1980	0.669	
Ce	139.905	139.929	33971	2030	0.631	
Pb	207.977	207.928	50436	2220	0.670	
U	238.050	238.075	57666	2350	0.700	

DIM0216291 DIM0216452

ELAN 6100 Daily Performance Report

Sample ID: Sample
Sample Date/Time: Monday, February 13, 2012 08:46:09
Sample Description:
Method File: C:\Elandata\Method\EPA\epa Daily.mth
Dataset File: C:\Elandata\Dataset\Daily Performance\Sample.126
Tuning File: C:\Elandata\Tuning\epa.tun
Optimization File: C:\Elandata\Optimize\epa.dac
Dual Detector Mode: Dual
Acq. Dead Time(ns): 65
Current Dead Time (ns): 65

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Be	9.0	3324.3	3324.318	75.132	2.3
	Co	58.9	92253.4	92253.407	1858.412	2.0
	Mg	24.0	41660.0	41660.011	851.531	2.0
	Rh	102.9	165396.2	165396.198	4969.955	3.0
	In	114.9	200766.1	200766.063	6716.552	3.3
	Pb	208.0	89920.4	89920.396	2344.381	2.6
⌈>	Ba	137.9	160701.1	160701.050	5371.474	3.3
⌊	Ba++	69.0	2721.4	0.017	0.000	1.7
⌈>	Ce	139.9	205936.3	205936.325	5105.788	2.5
⌊	CeO	155.9	5984.3	0.029	0.001	1.8
	Bkgd	220.0	1.0	1.000	0.408	40.8
	C	12.0	447372.3	447372.328	8068.092	1.8
	C	13.0	6682.9	6682.904	206.376	3.1
	U	238.1	243361.4	243361.382	5155.620	2.1
	Kr	83.9	1519.4	1519.412	66.458	4.4
	Kr	82.9	305.7	305.667	18.477	6.0

Current Optimization File Data

Current Value	Description
0.89	Nebulizer Gas Flow
7.00	Lens Voltage
1100.00	ICP RF Power
-2250.00	Analog Stage Voltage
1900.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	29	7.3	3487.8
Co	59	29	8.0	71251.5
In	115	29	8.8	157632.7

DIM0216291 DIM0216454

Method Equation

Analyte	MassCorrections
Li	6.015-0.0811*Li 7
V r	50.944-2.95*(ClO53 -(0.113*Cr52))
As r	74.922-3.127*(ArCl 77-(0.873*Se 82))
Se r	81.917-1.008696*kr83
Se	76.920 - 1.007833 * Kr 83
Cd r	110.904-1.073*(MoO 108 - (0.712*Pd 106))
Cd	105.907 - 1.223914 * Pd 105
Cd	107.904 - 1.184953 * Pd 105
Cd	113.904 - 0.026826 * Sn 118
In	114.904 - 0.014032 * Sn 118
Sb r	122.904 - 0.127189 * Te 125
Pb	207.977+1*Pb 206 + 1*Pb 207
Fe	53.940 - 0.028226 * Cr 52
Mo r	97.906 - 0.110588 * Ru 101
In-1	114.904 - 0.014032 * Sn 118

Tuning File Name

Tuning File Name epa.tun
Tuning File Path C:\Elandata\Tuning\epa.tun

Tuning File

Analyte	E Mass	Meas Mass	Mass C DAC Val	Res DAC Value	Meas Peak W	Custom Res
He	3.016	3.077	615	2080	0.641	
Mg	23.985	23.929	5699	2040	0.657	
Rh	102.905	102.829	24963	1980	0.669	
Ce	139.905	139.929	33971	2030	0.631	
Pb	207.977	207.928	50436	2220	0.670	
U	238.050	238.075	57666	2350	0.700	

Ba	134.906	Linear Thru Zero	0.01	0.00	0.999913
Tb	158.925	Linear Thru Zero	0.00	0.00	0.000000
Tl r	204.975	Linear Thru Zero	0.05	0.00	1.000000
Tl	202.972	Linear Thru Zero	0.02	0.00	0.999992
U	238.050	Linear Thru Zero	0.09	0.00	0.999835
Pb	207.977	Linear Thru Zero	0.07	0.00	0.999794
Na	22.990	Linear Thru Zero	14.57	0.00	0.999985
Mg	23.985	Linear Thru Zero	10.14	0.00	0.999948
K	38.964	Linear Thru Zero	24.83	0.00	0.999994
Ca	43.956	Linear Thru Zero	0.69	0.00	0.999290
Fe	53.940	Linear Thru Zero	1.83	0.00	0.999627
Sc-1	44.956	Linear Thru Zero	0.00	0.00	0.000000
Kr	82.914	Linear Thru Zero	0.00	0.00	0.000000
Cl	34.969	Linear Thru Zero	0.00	0.00	0.000000
C	12.000	Linear Thru Zero	0.00	0.00	0.000000
Y	88.905	Linear Thru Zero	0.00	0.00	0.000000
Br	78.918	Linear Thru Zero	0.00	0.00	0.999971
Br	80.916	Linear Thru Zero	0.00	0.00	0.995654
Ge-1	71.922	Linear Thru Zero	0.00	0.00	0.000000
Ru	98.906	Linear Thru Zero	0.00	0.00	0.000000
Pd	104.905	Linear Thru Zero	0.00	0.00	0.000000
Ho	164.930	Linear Thru Zero	0.00	0.00	0.000000
Th	232.038	Linear Thru Zero	18605.89	0.00	0.999013
Mo	94.906	Linear Thru Zero	0.01	0.00	0.999984
Mo	96.906	Linear Thru Zero	0.01	0.00	0.999970
Mo r	97.906	Linear Thru Zero	0.02	0.00	0.999986
Rh	102.905	Linear Thru Zero	0.00	0.00	0.000000
In-1	114.904	Linear Thru Zero	0.00	0.00	0.000000
Ti	46.952	Linear Thru Zero	0.00	0.00	0.000000
Li	7.016	Linear Thru Zero	0.00	0.00	0.000000

ELAN 6100 Quantitative Analysis Calibration Report

File Name: EL120213.cal
File Path: C:\Elandata\System\EL120213.cal
Calibration Type: External Calibration
WO#: 1202003
SITE: DIMOCK

Calibration File Name

File Name EL120213.cal

Method File Name

File Name 2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Path C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Be r	9.012	Linear Thru Zero	0.00	0.00	0.999980
Li u	6.015	Linear Thru Zero	0.00	0.00	0.000000
Li	6.015	Linear Thru Zero	0.00	0.00	0.000000
Be	9.012	Linear Thru Zero	0.00	0.00	0.999967
B	11.009	Linear Thru Zero	0.00	0.00	0.999902
Al	26.982	Linear Thru Zero	0.01	0.00	0.999856
Sc	44.956	Linear Thru Zero	0.00	0.00	0.000000
V r	50.944	Linear Thru Zero	0.02	0.00	0.999937
V u	50.944	Linear Thru Zero	0.02	0.00	0.999898
Cr r	51.941	Linear Thru Zero	0.02	0.00	0.999862
Cr	52.941	Linear Thru Zero	0.00	0.00	0.998264
Mn	54.938	Linear Thru Zero	0.03	0.00	0.999828
Co	58.933	Linear Thru Zero	0.02	0.00	0.999804
Ni r	59.933	Linear Thru Zero	0.00	0.00	0.999725
Ni	61.928	Linear Thru Zero	0.00	0.00	0.999892
Cu r	62.930	Linear Thru Zero	0.01	0.00	0.999739
Cu	64.928	Linear Thru Zero	0.00	0.00	0.999731
Zn r	65.926	Linear Thru Zero	0.01	0.00	0.999987
Zn	66.927	Linear Thru Zero	0.00	0.00	0.997984
Zn	67.925	Linear Thru Zero	0.01	0.00	0.999969
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
As r	74.922	Linear Thru Zero	0.01	0.00	0.999991
As u	74.922	Linear Thru Zero	0.01	0.00	0.999967
Se r	81.917	Linear Thru Zero	0.00	0.00	0.999900
Se	76.920	Linear Thru Zero	0.00	0.00	0.999999
Sr	87.906	Linear Thru Zero	0.14	0.00	0.999834
Ag r	106.905	Linear Thru Zero	0.03	0.00	0.999841
Ag	108.905	Linear Thru Zero	0.03	0.00	0.999942
Cd r	110.904	Linear Thru Zero	0.01	0.00	0.999990
Cd	105.907	Linear Thru Zero	0.00	0.00	0.999907
Cd	107.904	Linear Thru Zero	0.00	0.00	0.999913
Cd	113.904	Linear Thru Zero	0.02	0.00	0.999981
Cd u	110.904	Linear Thru Zero	0.01	0.00	0.999989
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Sb r	122.904	Linear Thru Zero	0.02	0.00	0.999980
Sb	120.904	Linear Thru Zero	0.02	0.00	0.999980
Sn	117.902	Linear Thru Zero	0.02	0.00	0.999992
Sn r	119.902	Linear Thru Zero	0.02	0.00	0.999992
Ba r	136.905	Linear Thru Zero	0.01	0.00	0.999911

QC Std 1	CAL
QC Std 2	CAL/CCV
QC Std 3	CAL
QC Std 4	IBL
QC Std 5	SCV
QC Std 6	LCV (tv=0.4ppb)
QC Std 7	LCV (tv=0.8ppb)
QC Std 8	LCV (tv=1.0ppb)
QC Std 9	LCV (tv=2.0ppb)
QC Std 10	BLK
QC Std 11	BS (digested)
QC Std 12	BS (undigested)

OASQA TRUE VALUES for ICP-MS Standards and QC

ICP-MS OASQA QL (ppb) ILM5.4/ISM1.2	ICPMS OASQA QL(ppb) SDWA		QCStd 2 CCV +10% ppb	QCStd 5 SCV +10% ppb	SDWA Primary MCL ppb	LCV +50% ppb (2.5x diluted value) Lowest possible values are listed	BS = MS +15% / +30% ppb (2.5x diluted value)
1.0		Ag	50	50		0.4	2/5
20		Al	50	100		0.4	80/200
1.0	2.0	As	50	100	10	0.4	20/50
		B	50 CAL4	100		0.4	20/50
10	100	Ba	50	100	2000	0.4	80/200
1.0	1.0	Be	50	100	4	0.4	2/5
		Br	50 CAL4	*		10	*
1.0	1.0	Cd	50	100	5	0.4	2/5
1.0		Co	50	100		0.4	20/50
2.0	5.0	Cr	50	100	100	0.4	20/50
2.0	5.0	Cu	50	100	50 = POL	0.4	20/50
1.0		Mn	50	100		0.4	20/50
		Mo	50	100		0.4	20/50
1.0		Ni	50	100		0.4	20/50
		Li	*	100		*	*
1.0	2.0	Pb	50	100	5 = POL	0.4	20/50
2.0	5.0	Sb	50	100	6	0.4	20/50
5.0	5.0	Se	50	100	50	0.4	20/50
		Sn	50 CAL4	*		10	20/50
		Sr	50 CAL4	100		0.4	20/50
1.0	2.0	Tl	50	100	2	0.4	20/50
		Ti	*	100		*	*
		U	50	*		0.4	20/50
5.0		V	50	100		0.4	20/50
2.0		Zn	50	100		0.4	20/50
if requested			ppm	ppm	ppm	ppm	ppm
2000	1000	Na	5.00 MIN	0.1	no MCL	0.4	0.4/1.0
2000		Mg	5.00 MIN	0.1		0.4	0.4/1.0
2000		K	5.00 MIN	1.0		0.4	0.8/2.0
2000		Ca	5.00 MIN	0.1		0.4	0.4/1.0
100		Fe	5.00 MIN	0.1		0.4	0.2/0.5

*added separately to solution

Making CAL Standards

QC Std 1 (CAL1) = 10ppb/1ppm (5x of 50ppb)
QC Std 2 (CAL2/CCV) = 50ppb/5ppm (2x of 100ppb)
QC Std 3 (CAL3) = 100ppb/10ppm
QC Std 4 = Blank = ± LCV

LCV (diluted value)	x 2.5
0.4 ppb (0.4 ppm)= 0.4ml of 10 ppb (CAL1) to 10ml	1.0 (0.10)
0.8 ppb (0.8 ppm) =0.8ml of 10 ppb (CAL1) to 10ml	2.0 (0.20)
1.0 ppb (0.1 ppm) = 2x dilutionof 2.0 ppb	2.5 (0.25)
2.0 ppb (0.2 ppm) =0.4ml of 50 ppb (CAL2) to 10ml	5.0 (0.50)

EPA - OASQA - ICP-MS Standard/Reagent Preparation

Perkin Elmer ELAN 6100

** Calibration Standards (made daily)			
Solution ID	**Prepared by diluting:**	**with IBL**	**CAL Final Conc. (CAL / MIN) (see true value sheet)**
CAL 1	CAL 2	5X	10 µg/L / 1 mg/L
CAL 2 / CCV	CAL 3	2X	50 µg/L / 5 mg/L
CAL 3	-	na	100 µg/L / 10 mg/L

LCV Standard Preparation (made daily) Matrix will be same as IBL.			
LCV Standard Preparation (made daily) Matrix will be same as IBL.			
Concentration (CAL / MIN) (see true value sheet)	**Prepared by diluting:**	**to Final volume with IBL**	**Used? √**
LCV (0.4 µg/L / 0.04 mg/L)	0.4 mL of CAL 1	10 mL	✓
LCV (0.8 µg/L / 0.08 mg/L)	0.8 mL of CAL 1	10 mL	✓
LCV (1.0 µg/L)	2x of LCV (2.0 µg/L)		
LCV (2.0 µg/L / 0.2 mg/L)	0.4 mL of CAL 2	10 mL	
LCV (4.0 µg/L / 0.4 mg/L)	0.4 mL of CAL 3	10 mL	

Reagent Acid Stocks					
	Vendor	**Bar Code**		**Vendor**	**Bar Code**
Nitric Acid	**Fisher**	**11152**	**HCl Acid**	**Fisher**	**11148**

Other solutions									
Solution	**Stock Solution**	**Stock Conc**	**Vendor**	**Bar Code**	**Stock Volume**	**Final Volume**	**Final Conc**	**Date/ Initials**	**Acid Conc**

* See Certificate of Analysis for analytes.

Certificates of Analysis Logbook #_____2_____

Comments:_____

I:\ASQAB_AT Team\FORMS\METALS\standard_reagent form ICPMS.wpd January 2012

EPA - OASQA - ICP-MS Standard/Reagent Preparation

Perkin Elmer ELAN 6100

Analyst: RC Costa Date: 2-13-12 Pipets Logbook # 11

Run Filename QC EL1213 EL120213 (all electronic files saved using Run Filename) SOP #: R3-QA116

SITE/WO#: DIMOCK WO 1202003 Reagent purity checked ✓

* See Certificates of Analysis for analytes and concentrations.

** Matrix of IBL and calibration standards: 0.8% nitric/0.4% HCl (0.8 mL/ 0.4mL to 100 mL final vol) ✓
IBL made daily. **OR** 1% nitric (1mL to 100mL final vol) _____

****SCV (made daily): Single solution made with both stocks and diluted to volume with IBL.**

*Stock Solution	Expiration Date	Stock Conc	Vendor	Bar Code	Stock Volume	Final Volume	Final Conc
QC-7A	1-2013	100 mg/L 50 mg/L Ag 1000 mg/L K	Spex	13853	50 µl	50 ml	see TV sheet
QC-21	1-2013	100 mg/L	Spex	13852	50 µl	50 ml	see TV sheet

Internal Standards Mixed Solution (made daily). **Matrix = 1% nitric (2 mL conc. nitric to 200 mL final volume)**

Stock Solution	Stock Conc	Vendor	Bar Code	Stock Volume	Final Conc
Germanium	10 mg/L	Claritas	12704	4 mL	0.200 mg/L
* IS Multi-Mix	10 mg/L	Claritas	6403	0.8 mL	0.04 mg/L
Scandium	10 mg/L	Claritas	12703	2.0 mL	0.08 mg/L
Lithium 6	100 mg/L	Claritas	11126	2 mL	1.0 mg/L

MIN Mixed Stock Solution **Date made:** 2-2011
Matrix = 1% nitric (1 mL conc. nitric to 100 mL final volume) **Prepared by:** RC

Stock Solution	Stock Conc	Vendor	Bar Code	Stock Volume	Final Conc
Iron	10000 mg/L	High Purity	11886	10 mL	1000 mg/L
Calcium	10000 mg/L	High Purity	10171	10 mL	1000 mg/L
Magnesium	10000 mg/L	High Purity	10172	10 mL	1000 mg/L
Potassium	10000 mg/L	High Purity	11885	10 mL	1000 mg/L
Sodium	10000 mg/L	High Purity	11808	10 mL	1000 mg/L

CAL4 Mixed Stock Solution **Date made:** 5-2011
Matrix = 2% nitric 2%HCl (2 mL conc. to 100 mL final volume) **Prepared by:** RC
1ml of 10mg/L stock to 100mL for 100 µg/L

Stock Solution	Stock Conc	Vendor	Bar Code	Stock Volume	Final Conc
Bromide	1000 ppm	High Purity	10048	1 mL	10 mg/L
Boron	5000 ppm	High Purity	5508	0.2 mL	10 mg/L
Strontium	1000 ppm	High Purity	11882	1.0 mL	10 mg/L
Tin	10,000 ppm	High Purity	5616	0.1 ml	10 mg/L

**** CAL3 Mixed Stock Solution of 500 mL final volume** **Date made:** **Prepared by:**

*Stock Solution	Stock Conc	Vendor	Bar Code	Stock Volume	Final Conc
2008 CAL-1	20 mg/L	Spex	13851	2.5 mL	100 µg/L
MIN	1000 mg/L	see above	see above	5 mL	10 mg/L
CAL-4	10 mg/L	see above	see above	5 ml (1ml of 10mg/l stock to 100mL to run as separate CAL-4 standard	100 µg/L run as separate standard: ☐

	1202003-47	12:23:05 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\1202003-47.038	Sample
	QC Std 2	12:28:20 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\QC Std 2.039	QC Std #2
	QC Std 4	12:33:33 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\QC Std 4.040	QC Std #4
Don't report	-39	12:49:28 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\-39.041	Sample

↑
straight from bottle - not digested.

ICP-MS ELAN 6100 RUN LOG

Computer Name: D0303SLABF103A
Dataset File Path: C:\Elandata\Dataset\EL120213\
Optimization File: C:\Elandata\Optimize\epa.dac
Tuning File: C:\Elandata\Tuning\epa.tun
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Report Date/Time: Monday, February 13, 2012 12:54:21
Batch ID: WO# 1202003
Analyst: R.COSTAS
Site: DIMOCK
Inst Run: EL120213

R.COSTAS 2.13.12

Matrix HNO3/HCl. Samples diluted 2.5X unless otherwise noted below. __X___

Matrix 1% nitric. No dilution unless indicated below. _____

The Dataset

Batch ID	Description	Sample ID	Date and Time	Samp. File Name	Read Type
		Blank	08:56:48 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\Blank.001	Blank
		Blank	09:03:48 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\Blank.002	Blank
		Standard 1	09:09:00 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\Standard 1.003	Standard #1
		Standard 2	09:14:13 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\Standard 2.004	Standard #2
		Standard 3	09:19:27 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\Standard 3.005	Standard #3
		QC Std 2	09:24:51 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\QC Std 2.006	QC Std #2
	rerun-Sr still high	QC Std 2	09:30:54 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\QC Std 2.007	QC Std #2
		QC Std 4	09:37:40 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\QC Std 4.008	QC Std #4
		QC Std 5	09:42:53 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\QC Std 5.009	QC Std #5
		QC Std 6	09:48:31 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\QC Std 6.010	QC Std #6
		QC Std 7	09:53:27 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\QC Std 7.011	QC Std #7
	Recalibrated with this Blank →	Blank	09:58:28 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\Blank.012	Blank
		BB20907-BLK1	10:10:25 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\BB20907-BLK1.013	Sample
		BB20907-BS1	10:15:46 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\BB20907-BS1.014	Sample
		1202003-32	10:21:06 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\1202003-32.015	Sample
		1202003-33	10:26:27 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\1202003-33.016	Sample
		1202003-34	10:31:49 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\1202003-34.017	Sample
		1202003-35	10:37:11 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\1202003-35.018	Sample
		BB20907-DUP1	10:42:33 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\BB20907-DUP1.019	Sample
		1202003-36	10:47:52 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\1202003-36.020	Sample
		BB20907-MS1	10:53:08 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\BB20907-MS1.021	Sample
		1202003-37	10:58:24 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\1202003-37.022	Sample
		QC Std 2	11:03:37 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\QC Std 2.023	QC Std #2
		QC Std 4	11:08:49 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\QC Std 4.024	QC Std #4
		1202003-38	11:14:06 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\1202003-38.025	Sample
		1202003-39	11:19:23 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\1202003-39.026	Sample
		1202003-40	11:24:40 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\1202003-40.027	Sample
		1202003-41	11:29:58 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\1202003-41.028	Sample
		BB20907-DUP3	11:35:17 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\BB20907-DUP3.029	Sample
		1202003-42	11:40:36 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\1202003-42.030	Sample
		1202003-43	11:45:55 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\1202003-43.031	Sample
		BB20907-MS3	11:51:15 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\BB20907-MS3.032	Sample
		1202003-44	11:56:36 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\1202003-44.033	Sample
		1202003-45	12:01:57 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\1202003-45.034	Sample
		QC Std 2	12:07:12 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\QC Std 2.035	QC Std #2
		QC Std 4	12:12:24 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\QC Std 4.036	QC Std #4
		1202003-46	12:17:43 Mon 13-Feb-12	C:\Elandata\Dataset\EL120213\1202003-46.037	Sample

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 6

Sample Description:
Autosampler Position: 9
Sample Date/Time: Monday, February 13, 2012 09:48:31
Dataset File: C:\Elandata\Dataset\EL120213\QC Std 6.010
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	122.336	2.333	0.393	ug/L	19.908
|>	Li u	6	337739.737	343542.862		ug/L	
⌊	Li	6	335946.457	341727.648		ug/L	
⌈	Be	9	122.336	2.333	0.415	ug/L	20.911
|	B	11	412.015	142.669	0.750	ug/L	12.565
|	Al	27	3363.102	1507.830	0.480	ug/L	0.855
|>	Sc	45	294673.973	293669.979		ug/L	
|	V r	51	1432.582	-1609.015	0.473	ug/L	66.216
|	V u	51	89439.995	90091.537	-0.154	ug/L	236.124
|	Cr r	52	10214.887	8054.295	0.395	ug/L	12.746
|	Cr	53	29710.272	31139.892	-2.680	ug/L	38.654
|	Mn	55	4075.454	367.679	0.430	ug/L	0.515
|	Co	59	2710.171	42.001	0.442	ug/L	1.312
|	Ni r	60	652.701	78.001	0.463	ug/L	0.953
|	Ni	62	165.670	85.668	0.450	ug/L	2.863
|	Cu r	63	1358.800	199.338	0.468	ug/L	5.316
⌊	Cu	65	632.699	89.668	0.475	ug/L	3.887
⌈	Zn r	66	546.358	205.671	0.505	ug/L	12.338
|	Zn	67	2368.723	2553.783	-1.626	ug/L	82.719
|	Zn	68	628.032	362.345	0.535	ug/L	3.734
|>	Ge	72	86673.461	86530.566		ug/L	
|	As r	75	106.971	-352.353	0.498	ug/L	16.684
|	As u	75	4266.560	4067.450	0.218	ug/L	56.294
|	Se r	82	47.723	4.722	0.435	ug/L	23.104
|	Se	77	1330.923	1367.597	-0.544	ug/L	90.541
⌊	Sr	88	5307.884	183.337	0.421	ug/L	1.564
⌈	Ag r	107	2251.019	30.334	0.439	ug/L	2.598
|	Ag	109	2084.970	29.667	0.425	ug/L	4.196
|	Cd r	111	681.367	143.360	0.436	ug/L	11.697
|	Cd	106	-2100.283	-2210.438	1.240	ug/L	77.253
|	Cd	108	-2230.811	-2310.098	1.271	ug/L	83.657
|	Cd	114	1249.955	14.760	0.438	ug/L	4.353
|	Cd u	111	535.357	9.667	0.426	ug/L	9.560
|>	In	115	177587.455	175404.076		ug/L	
|	Sb r	123	1320.624	34.164	0.416	ug/L	1.552
⌊	Sb	121	1750.217	33.000	0.422	ug/L	2.164

⌈	Sn	118	1795.561	195.338	**0.427**	ug/L	2.623
|	Sn r	120	2415.737	255.674	**0.422**	ug/L	4.333
|	Ba r	137	855.389	43.667	**0.434**	ug/L	1.863
|	Ba	135	478.353	20.000	**0.421**	ug/L	6.831
|>	Tb	159	212416.066	211870.271		ug/L	
|	Tl r	205	5134.101	837.721	**0.382**	ug/L	6.865
|	Tl	203	2069.299	337.344	**0.373**	ug/L	4.543
|	U	238	7974.878	30.667	**0.424**	ug/L	1.034
L	Pb	208	6766.223	504.012	**0.434**	ug/L	1.530
⌈	Na	23	201777.574	21260.554	**0.042**	mg/L	2.037
|	Mg	24	114204.015	709.040	**0.038**	mg/L	1.453
|	K	39	729955.111	458015.620	**0.037**	mg/L	2.925
|	Ca	44	18866.301	10752.953	**0.040**	mg/L	2.063
|	Fe	54	39760.078	21271.210	**0.034**	mg/L	2.855
L>	Sc-1	45	294673.973	293669.979		ug/L	
	Kr	83	70.334	70.334		ug/L	
	Cl	35	26501136.602	26810658.688		mg/L	
	C	12	316504.709	304308.241		mg/L	
	Y	89	166575.374	167906.034		ug/L	
⌈	Br	79	1851.908	1887.917	**-0.203**	ug/L	118.781
|	Br	81	13162.724	13439.866	**-1.603**	ug/L	156.384
L>	Ge-1	72	86673.461	86530.566		ug/L	
	Ru	99	2.000	2.667		ug/L	
	Pd	105	1911.590	1950.934		ug/L	
	Ho	165	206136.610	208038.839		ug/L	
	Th	232	6238.269	763.380	**0.294**	ug/L	9.354
⌈	Mo	95	1018.078	105.335	**0.475**	ug/L	7.364
|	Mo	97	648.701	68.001	**0.475**	ug/L	5.979
|	Mo r	98	1743.957	175.116	**0.488**	ug/L	4.787
|	Rh	103	5.333	2.667		ug/L	
L>	In-1	115	177587.455	175404.076		ug/L	
	Ti	47	197.671	183.004		ug/L	
	Li	7	22111.961	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
QC Std 6	B	11	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	V u	51	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Cr	53	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Zn	67	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Cd	106	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Cd	108	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Br	79	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Br	81	LCV (DC1, TV 0.4) is out of limits (+/- 50%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 7

Sample Description:
Autosampler Position: 10
Sample Date/Time: Monday, February 13, 2012 09:53:27
Dataset File: C:\Elandata\Dataset\EL120213\QC Std 7.011
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	268.674	2.333	0.849	ug/L	10.126
|>	Li u	6	347857.088	343542.862		ug/L	
⌊	Li	6	346017.689	341727.648		ug/L	
⌈	Be	9	268.674	2.333	0.906	ug/L	9.444
|	B	11	506.022	142.669	0.989	ug/L	12.921
|	Al	27	4922.624	1507.830	0.864	ug/L	0.755
|>	Sc	45	299684.680	293669.979		ug/L	
|	V r	51	4313.994	-1609.015	0.912	ug/L	33.056
|	V u	51	92852.555	90091.537	0.141	ug/L	188.584
|	Cr r	52	12584.748	8054.295	0.795	ug/L	3.398
|	Cr	53	30902.637	31139.892	-1.503	ug/L	90.082
|	Mn	55	7897.465	367.679	0.859	ug/L	1.238
|	Co	59	5350.914	42.001	0.864	ug/L	1.224
|	Ni r	60	1170.101	78.001	0.864	ug/L	2.542
|	Ni	62	234.673	85.668	0.819	ug/L	9.441
|	Cu r	63	2467.420	199.338	0.899	ug/L	1.508
⌊	Cu	65	1151.431	89.668	0.912	ug/L	3.485
⌈	Zn r	66	848.722	205.671	0.944	ug/L	4.627
|	Zn	67	2556.117	2553.783	-0.177	ug/L	132.592
|	Zn	68	840.721	362.345	0.951	ug/L	7.091
|>	Ge	72	87311.260	86530.566		ug/L	
|	As r	75	699.251	-352.353	1.135	ug/L	10.069
|	As u	75	4807.884	4067.450	0.792	ug/L	9.686
|	Se r	82	99.672	4.722	0.954	ug/L	14.227
|	Se	77	1427.230	1367.597	0.659	ug/L	6.161
⌊	Sr	88	10392.790	183.337	0.833	ug/L	2.640
⌈	Ag r	107	4302.246	30.334	0.834	ug/L	2.299
|	Ag	109	4138.154	29.667	0.840	ug/L	1.150
|	Cd r	111	1196.466	143.360	0.845	ug/L	5.997
|	Cd	106	-2181.256	-2210.438	0.725	ug/L	89.411
|	Cd	108	-2304.633	-2310.098	0.698	ug/L	159.403
|	Cd	114	2439.374	14.760	0.849	ug/L	1.041
|	Cd u	111	1066.085	9.667	0.845	ug/L	4.348
|>	In	115	179593.180	175404.076		ug/L	
|	Sb r	123	2570.407	34.164	0.812	ug/L	4.296
⌊	Sb	121	3416.126	33.000	0.821	ug/L	3.784

⌈	Sn	118	3717.935	195.338	**0.939**	ug/L	1.176
|	Sn r	120	5148.108	255.674	**0.953**	ug/L	3.568
|	Ba r	137	1607.851	43.667	**0.834**	ug/L	3.089
|	Ba	135	932.399	20.000	**0.837**	ug/L	3.323
|>	Tb	159	212856.427	211870.271		ug/L	
|	Tl r	205	9111.160	837.721	**0.735**	ug/L	4.751
|	Tl	203	3746.285	337.344	**0.732**	ug/L	5.375
|	U	238	15764.965	30.667	**0.837**	ug/L	0.652
⌊	Pb	208	12888.344	504.012	**0.856**	ug/L	1.587
⌈	Na	23	386049.008	21260.554	**0.083**	mg/L	0.725
|	Mg	24	228384.296	709.040	**0.075**	mg/L	0.369
|	K	39	1002174.403	458015.620	**0.072**	mg/L	0.924
|	Ca	44	26364.038	10752.953	**0.075**	mg/L	1.479
|	Fe	54	58358.630	21271.210	**0.067**	mg/L	1.273
⌊>	Sc-1	45	299684.680	293669.979		ug/L	
	Kr	83	76.334	70.334		ug/L	
	Cl	35	26932482.249	26810658.688		mg/L	
	C	12	323766.007	304308.241		mg/L	
	Y	89	168559.062	167906.034		ug/L	
⌈	Br	79	1951.267	1887.917	**0.236**	ug/L	161.029
|	Br	81	13216.815	13439.866	**-1.840**	ug/L	104.798
⌊>	Ge-1	72	87311.260	86530.566		ug/L	
	Ru	99	1.000	2.667		ug/L	
	Pd	105	2009.616	1950.934		ug/L	
	Ho	165	207530.344	208038.839		ug/L	
	Th	232	13495.311	763.380	**0.684**	ug/L	4.603
⌈	Mo	95	1699.205	105.335	**0.820**	ug/L	2.594
|	Mo	97	1087.421	68.001	**0.825**	ug/L	1.270
|	Mo r	98	2866.119	175.116	**0.828**	ug/L	2.234
|	Rh	103	3.000	2.667		ug/L	
⌊>	In-1	115	179593.180	175404.076		ug/L	
	Ti	47	188.004	183.004		ug/L	
	Li	7	22680.628	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
QC Std 7	V u	51	LCV (DC1, TV 0.8) is out of limits (+/- 50%)
QC Std 7	Cr	53	LCV (DC1, TV 0.8) is out of limits (+/- 50%)
QC Std 7	Zn	67	LCV (DC1, TV 0.8) is out of limits (+/- 50%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: BB20907-BLK1

Sample Description:
Autosampler Position: 17
Sample Date/Time: Monday, February 13, 2012 10:10:25
Dataset File: C:\Elandata\Dataset\EL120213\BB20907-BLK1.013
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.667	2.333	-0.002	ug/L	213.058
|>	Li u	6	344366.672	343542.862		ug/L	
⌊	Li	6	342518.461	341727.648		ug/L	
⌈	Be	9	1.667	2.333	-0.003	ug/L	200.993
|	B	11	148.003	142.669	-0.001	ug/L	1866.926
|	Al	27	3817.986	1507.830	0.564	ug/L	6.821
|>	Sc	45	305149.157	293669.979		ug/L	
|	V r	51	-1469.198	-1609.015	0.031	ug/L	988.793
|	V u	51	82066.617	90091.537	-1.763	ug/L	5.227
|	Cr r	52	8108.019	8054.295	-0.047	ug/L	26.172
|	Cr	53	29086.880	31139.892	-5.491	ug/L	26.086
|	Mn	55	436.683	367.679	0.006	ug/L	48.214
|	Co	59	33.334	42.001	-0.002	ug/L	14.626
|	Ni r	60	75.001	78.001	-0.005	ug/L	230.266
|	Ni	62	82.335	85.668	-0.036	ug/L	31.054
|	Cu r	63	306.676	199.338	0.039	ug/L	14.002
⌊	Cu	65	145.336	89.668	0.044	ug/L	27.828
⌈	Zn r	66	293.342	205.671	0.124	ug/L	30.560
|	Zn	67	2048.294	2553.783	-4.609	ug/L	29.392
|	Zn	68	404.015	362.345	0.071	ug/L	100.322
|>	Ge	72	87882.041	86530.566		ug/L	
|	As r	75	-223.201	-352.353	0.144	ug/L	111.481
|	As u	75	4052.775	4067.450	-0.087	ug/L	19.197
|	Se r	82	-12.313	4.722	-0.171	ug/L	24.930
|	Se	77	1350.230	1367.597	-0.539	ug/L	201.542
⌊	Sr	88	164.337	183.337	-0.002	ug/L	35.492
⌈	Ag r	107	35.667	30.334	0.001	ug/L	121.898
|	Ag	109	25.667	29.667	-0.001	ug/L	47.203
|	Cd r	111	160.540	143.360	0.011	ug/L	160.576
|	Cd	106	-2209.307	-2210.438	0.533	ug/L	162.300
|	Cd	108	-2335.224	-2310.098	0.425	ug/L	312.587
|	Cd	114	19.209	14.760	0.001	ug/L	148.541
|	Cd u	111	8.333	9.667	-0.001	ug/L	71.918
|>	In	115	180153.171	175404.076		ug/L	
|	Sb r	123	31.497	34.164	-0.001	ug/L	199.518
⌊	Sb	121	43.667	33.000	0.002	ug/L	21.475

⌈	Sn	118	278.008	195.338	**0.021**	ug/L	18.956
|	Sn r	120	395.014	255.674	**0.026**	ug/L	24.693
|	Ba r	137	41.001	43.667	**-0.002**	ug/L	219.565
|	Ba	135	25.667	20.000	**0.005**	ug/L	45.087
|>	Tb	159	215783.922	211870.271		ug/L	
|	Tl r	205	408.015	837.721	**-0.039**	ug/L	5.085
|	Tl	203	177.337	337.344	**-0.035**	ug/L	15.700
|	U	238	23.000	30.667	**-0.000**	ug/L	57.731
⌊	Pb	208	565.014	504.012	**0.004**	ug/L	59.153
⌈	Na	23	26052.974	21260.554	**0.001**	mg/L	7.563
|	Mg	24	2052.962	709.040	**0.000**	mg/L	11.409
|	K	39	462448.318	458015.620	**-0.002**	mg/L	1.128
|	Ca	44	10616.428	10752.953	**-0.003**	mg/L	25.874
|	Fe	54	20956.159	21271.210	**-0.002**	mg/L	34.467
⌊>	Sc-1	45	305149.157	293669.979		ug/L	
	Kr	83	74.334	70.334		ug/L	
	Cl	35	26137245.112	26810658.688		mg/L	
	C	12	348655.925	304308.241		mg/L	
	Y	89	167464.650	167906.034		ug/L	
⌈	Br	79	899.728	1887.917	**-5.183**	ug/L	3.897
⌊	Br	81	12041.881	13439.866	**-8.540**	ug/L	31.031
⌊>	Ge-1	72	87882.041	86530.566		ug/L	
	Ru	99	0.667	2.667		ug/L	
	Pd	105	1978.608	1950.934		ug/L	
	Ho	165	210410.860	208038.839		ug/L	
	Th	232	278.008	763.380	**-0.026**	ug/L	3.575
⌈	Mo	95	104.668	105.335	**-0.002**	ug/L	279.567
|	Mo	97	67.668	68.001	**-0.002**	ug/L	192.902
|	Mo r	98	168.153	175.116	**-0.004**	ug/L	140.183
|	Rh	103	5.333	2.667		ug/L	
⌊>	In-1	115	180153.171	175404.076		ug/L	
	Ti	47	189.338	183.004		ug/L	
	Li	7	22789.292	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: BB20907-BS1

Sample Description:
Autosampler Position: 18
Sample Date/Time: Monday, February 13, 2012 10:15:46
Dataset File: C:\Elandata\Dataset\EL120213\BB20907-BS1.014
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD	
⌈	Be r	9	675.370	2.333	2.218	ug/L	2.890	
|>	Li u	6	336456.964	343542.862		ug/L		
⌊	Li	6	332682.337	341727.648		ug/L		
⌈	Be	9	675.370	2.333	2.275	ug/L	3.039	
|	B	11	8373.641	142.669	22.386	ug/L	1.606	
|	Al	27	319107.633	1507.830	80.488	ug/L	2.046	
|>	Sc	45	301889.631	293669.979		ug/L		
|	V r	51	133367.994	-1609.015	20.503	ug/L	2.274	
|	V u	51	228957.271	90091.537	21.039	ug/L	0.584	
|	Cr r	52	126154.349	8054.295	21.318	ug/L	2.292	
|	Cr	53	45365.182	31139.892	22.658	ug/L	2.019	
|	Mn	55	193839.378	367.679	21.938	ug/L	3.436	
|	Co	59	137604.644	42.001	22.228	ug/L	1.943	
|	Ni r	60	28150.045	78.001	22.072	ug/L	2.973	
|	Ni	62	4183.179	85.668	22.603	ug/L	3.087	
|	Cu r	63	56886.546	199.338	22.345	ug/L	2.862	
⌊	Cu	65	26198.144	89.668	22.307	ug/L	2.366	
⌈	Zn r	66	16113.355	205.671	23.353 —	ug/L	2.924	117%
|	Zn	67	5490.681	2553.783	24.637	ug/L	2.228	
|	Zn	68	12967.722	362.345	25.160	ug/L	4.047	
|>	Ge	72	87574.992	86530.566		ug/L		
|	As r	75	20226.219	-352.353	22.083 —	ug/L	3.049	
|	As u	75	23924.057	4067.450	22.245	ug/L	3.943	
|	Se r	82	2305.103	4.722	23.053	ug/L	2.805	115%
|	Se	77	3126.137	1367.597	24.208	ug/L	6.505	
⌊	Sr	88	261621.452	183.337	21.287	ug/L	3.474	
⌈	Ag r	107	11242.656	30.334	2.224	ug/L	1.346	111% o/c
|	Ag	109	10682.855	29.667	2.214	ug/L	2.497	
|	Cd r	111	2790.965	143.360	2.163	ug/L	0.068	
|	Cd	106	-1925.273	-2210.438	2.726	ug/L	28.517	
|	Cd	108	-1985.137	-2310.098	4.042	ug/L	21.094	
|	Cd	114	6328.501	14.760	2.246	ug/L	3.845	
|	Cd u	111	2774.861	9.667	2.248	ug/L	0.491	
|>	In	115	176788.023	175404.076		ug/L		
|	Sb r	123	66886.922	34.164	21.749	ug/L	2.572	
⌊	Sb	121	87609.509	33.000	21.603	ug/L	2.750	

⌈	Sn	118	78376.822	195.338	**20.988**	ug/L	2.341
|	Sn r	120	107327.873	255.674	**21.005**	ug/L	2.198
|	Ba r	137	158900.460	43.667	**85.353**	ug/L	3.038
|	Ba	135	92858.587	20.000	**85.790**	ug/L	2.725
|>	Tb	159	211362.414	211870.271		ug/L	
|	Tl r	205	221489.129	837.721	**19.750**	ug/L	1.622
|	Tl	203	91154.662	337.344	**19.642**	ug/L	1.982
|	U	238	389496.997	30.667	**20.869**	ug/L	3.453
⌊	Pb	208	307177.455	504.012	**21.341**	ug/L	2.855
⌈	Na	23	1837247.026	21260.554	**0.413**	mg/L	2.289
|	Mg	24	1153562.570	709.040	**0.376**	mg/L	2.316
|	K	39	6929079.744	458015.620	**0.862**	mg/L	2.592
|	Ca	44	88954.667	10752.953	**0.375**	mg/L	2.271
|	Fe	54	117901.913	21271.210	**0.173**	mg/L	0.444
⌊>	Sc-1	45	301889.631	293669.979		ug/L	
	Kr	83	71.334	70.334		ug/L	
	Cl	35	27546112.040	26810658.688		mg/L	
	C	12	355987.540	304308.241		mg/L	
	Y	89	167281.733	167906.034		ug/L	
⌈	Br	79	2704.169	1887.917	**4.055**	ug/L	7.686
|	Br	81	14438.355	13439.866	**4.464**	ug/L	40.926
⌊>	Ge-1	72	87574.992	86530.566		ug/L	
	Ru	99	6.333	2.667		ug/L	
	Pd	105	1911.590	1950.934		ug/L	
	Ho	165	206954.757	208038.839		ug/L	
	Th	232	643.367	763.380	**-0.006**	ug/L	63.164
⌈	Mo	95	40895.900	105.335	**21.357**	ug/L	3.512
|	Mo	97	26188.109	68.001	**21.501**	ug/L	2.383
|	Mo r	98	68860.660	175.116	**21.493**	ug/L	2.267
|	Rh	103	21.667	2.667		ug/L	
⌊>	In-1	115	176788.023	175404.076		ug/L	
	Ti	47	9974.236	183.004		ug/L	
	Li	7	46542.874	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-32

Sample Description:
Autosampler Position: 19
Sample Date/Time: Monday, February 13, 2012 10:21:06
Dataset File: C:\Elandata\Dataset\EL120213\1202003-32.015
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	1.667	2.333	-0.002	ug/L	182.126
|>	Li u	6	333914.858	343542.862		ug/L	
⌞	Li	6	331914.411	341727.648		ug/L	
⌜	Be	9	1.667	2.333	-0.002	ug/L	170.468
|	B	11	2761.523	142.669	7.367	ug/L	1.367
|	Al	27	19310.089	1507.830	4.666	ug/L	5.155
|>	Sc	45	292159.851	293669.979		ug/L	
|	V r	51	-112.580	-1609.015	0.233	ug/L	92.524
|	V u	51	93308.206	90091.537	0.588	ug/L	50.167
|	Cr r	52	8711.685	8054.295	0.131	ug/L	14.564
|	Cr	53	32086.108	31139.892	1.942	ug/L	37.128
|	Mn	55	2869.898	367.679	0.293	ug/L	5.082
|	Co	59	160.003	42.001	0.020	ug/L	8.152
|	Ni r	60	398.014	78.001	0.260	ug/L	9.386
|	Ni	62	90.001	85.668	0.027	ug/L	171.569
|	Cu r	63	97236.117	199.338	39.532	ug/L	5.058
⌞	Cu	65	45302.996	89.668	39.930	ug/L	5.585
⌜	Zn r	66	709.040	205.671	0.774	ug/L	7.729
|	Zn	67	2751.853	2553.783	2.284	ug/L	45.613
|	Zn	68	1430.481	362.345	2.227	ug/L	9.327
|>	Ge	72	84474.323	86530.566		ug/L	
|	As r	75	-292.895	-352.353	0.057	ug/L	307.547
|	As u	75	4833.233	4067.450	1.005	ug/L	5.851
|	Se r	82	3.388	4.722	-0.012	ug/L	959.967
|	Se	77	1618.317	1367.597	4.086	ug/L	11.891
⌞	Sr	88	405012.916	183.337	34.177	ug/L	5.251
⌜	Ag r	107	37.334	30.334	0.001	ug/L	83.010
|	Ag	109	28.000	29.667	-0.000	ug/L	214.746
|	Cd r	111	129.718	143.360	-0.010	ug/L	51.976
|	Cd	106	-2041.995	-2210.438	1.359	ug/L	85.731
|	Cd	108	-2132.076	-2310.098	1.880	ug/L	83.246
|	Cd	114	11.470	14.760	-0.001	ug/L	192.944
|	Cd u	111	8.667	9.667	-0.001	ug/L	67.015
|>	In	115	173919.204	175404.076		ug/L	
|	Sb r	123	63.492	34.164	0.010	ug/L	5.127
⌞	Sb	121	74.668	33.000	0.011	ug/L	17.529

⌈	Sn	118	367.679	195.338	**0.048**	ug/L	7.512
|	Sn r	120	505.688	255.674	**0.051**	ug/L	5.898
|	Ba r	137	87591.661	43.667	**48.007**	ug/L	5.265
|	Ba	135	50800.845	20.000	**47.883**	ug/L	4.608
|>	Tb	159	207183.694	211870.271		ug/L	
|	Tl r	205	1617.862	837.721	**0.073**	ug/L	57.982
|	Tl	203	672.371	337.344	**0.076**	ug/L	61.462
|	U	238	357.345	30.667	**0.018**	ug/L	9.433
⌊	Pb	208	4024.449	504.012	**0.251**	ug/L	4.888
⌈	Na	23	9706008.247	21260.554	**2.276**	mg/L	4.301
|	Mg	24	4037015.523	709.040	**1.362**	mg/L	4.534
|	K	39	2960035.113	458015.620	**0.345**	mg/L	4.975
|	Ca	44	1167836.586	10752.953	**5.758**	mg/L	4.393
|	Fe	54	28993.877	21271.210	**0.015**	mg/L	10.663
⌊>	Sc-1	45	292159.851	293669.979		ug/L	
	Kr	83	70.334	70.334		ug/L	
	Cl	35	26875180.055	26810658.688		mg/L	
	C	12	350850.705	304308.241		mg/L	
	Y	89	162018.436	167906.034		ug/L	
⌈	Br	79	1551.172	1887.917	**-1.542**	ug/L	28.594
|	Br	81	12778.746	13439.866	**-1.869**	ug/L	169.283
⌊>	Ge-1	72	84474.323	86530.566		ug/L	
	Ru	99	1.000	2.667		ug/L	
	Pd	105	1803.230	1950.934		ug/L	
	Ho	165	202765.400	208038.839		ug/L	
	Th	232	216.672	763.380	**-0.029**	ug/L	3.567
⌈	Mo	95	141.669	105.335	**0.020**	ug/L	42.785
|	Mo	97	93.002	68.001	**0.022**	ug/L	58.880
|	Mo r	98	236.192	175.116	**0.020**	ug/L	55.317
|	Rh	103	26.667	2.667		ug/L	
⌊>	In-1	115	173919.204	175404.076		ug/L	
	Ti	47	456.018	183.004		ug/L	
	Li	7	24666.413	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-33

Sample Description:
Autosampler Position: 20
Sample Date/Time: Monday, February 13, 2012 10:26:27
Dataset File: C:\Elandata\Dataset\EL120213\1202003-33.016
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.333	2.333	-0.003	ug/L	149.462
|>	Li u	6	344550.823	343542.862		ug/L	
⌊	Li	6	342716.197	341727.648		ug/L	
⌈	Be	9	1.333	2.333	-0.004	ug/L	151.578
|	B	11	156.670	142.669	0.038	ug/L	94.770
|	Al	27	3050.636	1507.830	0.399	ug/L	9.669
|>	Sc	45	295077.975	293669.979		ug/L	
|	V r	51	-2152.833	-1609.015	-0.088	ug/L	343.621
|	V u	51	96467.084	90091.537	0.945	ug/L	40.721
|	Cr r	52	9060.757	8054.295	0.180	ug/L	21.824
|	Cr	53	33434.509	31139.892	3.759	ug/L	54.304
|	Mn	55	461.685	367.679	0.011	ug/L	6.839
|	Co	59	35.334	42.001	-0.001	ug/L	70.807
|	Ni r	60	89.335	78.001	0.009	ug/L	79.949
|	Ni	62	76.334	85.668	-0.054	ug/L	120.094
|	Cu r	63	307.009	199.338	0.043	ug/L	25.892
⌊	Cu	65	150.003	89.668	0.052	ug/L	11.266
⌈	Zn r	66	247.006	205.671	0.063	ug/L	32.531
|	Zn	67	2620.473	2553.783	0.635	ug/L	64.672
|	Zn	68	409.015	362.345	0.097	ug/L	5.528
|>	Ge	72	86274.377	86530.566		ug/L	
|	As r	75	-416.201	-352.353	-0.074	ug/L	450.616
|	As u	75	4841.239	4067.450	0.898	ug/L	27.709
|	Se r	82	0.432	4.722	-0.044	ug/L	77.724
|	Se	77	1633.359	1367.597	3.808	ug/L	12.689
⌊	Sr	88	139.003	183.337	-0.004	ug/L	28.186
⌈	Ag r	107	24.334	30.334	-0.001	ug/L	132.660
|	Ag	109	16.000	29.667	-0.003	ug/L	13.918
|	Cd r	111	141.652	143.360	-0.004	ug/L	56.009
|	Cd	106	-2096.257	-2210.438	1.431	ug/L	19.659
|	Cd	108	-2202.091	-2310.098	1.823	ug/L	17.015
|	Cd	114	14.512	14.760	-0.000	ug/L	468.858
|	Cd u	111	6.333	9.667	-0.003	ug/L	33.366
|>	In	115	179104.252	175404.076		ug/L	
|	Sb r	123	32.788	34.164	-0.001	ug/L	213.929
⌊	Sb	121	40.667	33.000	0.002	ug/L	42.220

⌈	Sn	118	217.005	195.338	0.005	ug/L	105.111
|	Sn r	120	295.675	255.674	0.007	ug/L	56.670
|	Ba r	137	50.667	43.667	0.003	ug/L	73.977
|	Ba	135	27.334	20.000	0.006	ug/L	55.543
|>	Tb	159	216286.555	211870.271		ug/L	
|	Tl r	205	686.037	837.721	-0.015	ug/L	9.858
|	Tl	203	266.341	337.344	-0.016	ug/L	19.919
|	U	238	39.000	30.667	0.000	ug/L	38.774
⌊	Pb	208	434.009	504.012	-0.005	ug/L	29.918
⌈	Na	23	25202.480	21260.554	0.001	mg/L	28.976
|	Mg	24	1127.761	709.040	0.000	mg/L	16.847
|	K	39	441548.308	458015.620	-0.003	mg/L	37.311
|	Ca	44	10544.995	10752.953	-0.001	mg/L	94.946
|	Fe	54	21893.326	21271.210	0.001	mg/L	194.324
⌊>	Sc-1	45	295077.975	293669.979		ug/L	
	Kr	83	65.334	70.334		ug/L	
	Cl	35	27215383.631	26810658.688		mg/L	
	C	12	356560.671	304308.241		mg/L	
	Y	89	165483.187	167906.034		ug/L	
⌈	Br	79	1037.747	1887.917	-4.380	ug/L	4.689
|	Br	81	12064.911	13439.866	-7.232	ug/L	10.516
⌊>	Ge-1	72	86274.377	86530.566		ug/L	
	Ru	99	2.667	2.667		ug/L	
	Pd	105	1860.910	1950.934		ug/L	
	Ho	165	209109.279	208038.839		ug/L	
	Th	232	160.337	763.380	-0.032	ug/L	3.496
⌈	Mo	95	104.002	105.335	-0.002	ug/L	398.663
|	Mo	97	72.334	68.001	0.002	ug/L	337.592
|	Mo r	98	163.263	175.116	-0.005	ug/L	168.367
|	Rh	103	4.333	2.667		ug/L	
⌊>	In-1	115	179104.252	175404.076		ug/L	
	Ti	47	181.337	183.004		ug/L	
	Li	7	22621.775	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-34

Sample Description:
Autosampler Position: 21
Sample Date/Time: Monday, February 13, 2012 10:31:49
Dataset File: C:\Elandata\Dataset\EL120213\1202003-34.017
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	2.333	2.333	0.000	ug/L	11310.819
|>	Li u	6	340068.824	343542.862		ug/L	
⌊	Li	6	338230.346	341727.648		ug/L	
⌈	Be	9	2.333	2.333	0.000	ug/L	8865.978
|	B	11	493.021	142.669	0.998	ug/L	9.032
|	Al	27	3372.774	1507.830	0.497	ug/L	9.129
|>	Sc	45	290098.348	293669.979		ug/L	
|	V r	51	-1874.691	-1609.015	-0.046	ug/L	301.953
|	V u	51	97776.804	90091.537	1.418	ug/L	68.896
|	Cr r	52	8823.815	8054.295	0.164	ug/L	39.139
|	Cr	53	33910.367	31139.892	5.590	ug/L	64.628
|	Mn	55	466.352	367.679	0.012	ug/L	32.495
|	Co	59	29.000	42.001	-0.002	ug/L	37.270
|	Ni r	60	81.668	78.001	0.004	ug/L	271.074
|	Ni	62	92.668	85.668	0.047	ug/L	243.091
|	Cu r	63	295.342	199.338	0.040	ug/L	13.968
⌊	Cu	65	146.003	89.668	0.051	ug/L	18.554
⌈	Zn r	66	233.673	205.671	0.044	ug/L	36.522
|	Zn	67	2602.134	2553.783	0.568	ug/L	258.171
|	Zn	68	423.683	362.345	0.129	ug/L	23.301
|>	Ge	72	85980.825	86530.566		ug/L	
|	As r	75	-182.660	-352.353	0.185	ug/L	86.801
|	As u	75	4889.941	4067.450	0.976	ug/L	51.687
|	Se r	82	5.528	4.722	0.008	ug/L	676.620
|	Se	77	1595.101	1367.597	3.363	ug/L	48.460
⌊	Sr	88	200.671	183.337	0.002	ug/L	44.311
⌈	Ag r	107	27.667	30.334	-0.001	ug/L	173.728
|	Ag	109	22.667	29.667	-0.001	ug/L	59.868
|	Cd r	111	143.738	143.360	0.001	ug/L	1809.503
|	Cd	106	-2075.043	-2210.438	1.179	ug/L	45.480
|	Cd	108	-2184.436	-2310.098	1.419	ug/L	47.716
|	Cd	114	13.454	14.760	-0.000	ug/L	455.255
|	Cd u	111	6.333	9.667	-0.003	ug/L	31.755
|>	In	115	174858.713	175404.076		ug/L	
|	Sb r	123	29.952	34.164	-0.001	ug/L	199.439
⌊	Sb	121	39.000	33.000	0.002	ug/L	28.602

⌈	Sn	118	194.338	195.338	0.000	ug/L	1026.132
|	Sn r	120	259.674	255.674	0.001	ug/L	139.512
|	Ba r	137	49.334	43.667	0.003	ug/L	18.841
|	Ba	135	30.334	20.000	0.010	ug/L	86.956
|>	Tb	159	209428.315	211870.271		ug/L	
|	Tl r	205	462.019	837.721	-0.033	ug/L	4.696
|	Tl	203	225.006	337.344	-0.024	ug/L	23.133
|	U	238	20.000	30.667	-0.001	ug/L	57.202
⌊	Pb	208	661.018	504.012	0.011	ug/L	18.423
⌈	Na	23	23567.291	21260.554	0.001	mg/L	28.747
|	Mg	24	1128.094	709.040	0.000	mg/L	17.250
|	K	39	453470.563	458015.620	0.000	mg/L	249.602
|	Ca	44	10964.252	10752.953	0.002	mg/L	44.901
|	Fe	54	22026.792	21271.210	0.002	mg/L	166.652
⌊>	Sc-1	45	290098.348	293669.979		ug/L	
	Kr	83	54.334	70.334		ug/L	
	Cl	35	27059945.790	26810658.688		mg/L	
	C	12	355427.774	304308.241		mg/L	
	Y	89	163513.530	167906.034		ug/L	
⌈	Br	79	1036.414	1887.917	-4.366	ug/L	10.278
|	Br	81	12303.288	13439.866	-5.690	ug/L	30.347
⌊>	Ge-1	72	85980.825	86530.566		ug/L	
	Ru	99	3.000	2.667		ug/L	
	Pd	105	1846.574	1950.934		ug/L	
	Ho	165	203972.819	208038.839		ug/L	
	Th	232	135.336	763.380	-0.034	ug/L	3.953
⌈	Mo	95	87.668	105.335	-0.009	ug/L	40.637
|	Mo	97	68.668	68.001	0.001	ug/L	1597.084
|	Mo r	98	149.152	175.116	-0.008	ug/L	12.935
|	Rh	103	5.667	2.667		ug/L	
⌊>	In-1	115	174858.713	175404.076		ug/L	
	Ti	47	199.005	183.004		ug/L	
	Li	7	22669.270	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-35

Sample Description:
Autosampler Position: 22
Sample Date/Time: Monday, February 13, 2012 10:37:11
Dataset File: C:\Elandata\Dataset\EL120213\1202003-35.018
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	3.333	2.333	0.003	ug/L	196.953
|>	Li u	6	335331.818	343542.862		ug/L	
⌊	Li	6	329226.463	341727.648		ug/L	
⌈	Be	9	3.333	2.333	0.004	ug/L	208.127
|	B	11	17731.274	142.669	49.380	ug/L	2.449
|	Al	27	12806.447	1507.830	2.957	ug/L	3.811
|>	Sc	45	292623.006	293669.979		ug/L	
|	V r	51	-355.429	-1609.015	0.196	ug/L	13.193
|	V u	51	85330.904	90091.537	-0.707	ug/L	51.944
|	Cr r	52	7762.994	8054.295	-0.049	ug/L	99.511
|	Cr	53	29207.376	31139.892	-3.195	ug/L	53.375
|	Mn	55	4048702.554	367.679	473.478	ug/L	2.955
|	Co	59	181.337	42.001	0.023	ug/L	2.445
|	Ni r	60	554.692	78.001	0.387	ug/L	10.696
|	Ni	62	101.668	85.668	0.094	ug/L	107.460
|	Cu r	63	10116.423	199.338	4.032	ug/L	2.735
⌊	Cu	65	4368.619	89.668	3.771	ug/L	3.439
⌈	Zn r	66	398.014	205.671	0.313	ug/L	6.094
|	Zn	67	3195.029	2553.783	6.739	ug/L	6.988
|	Zn	68	3064.642	362.345	5.739	ug/L	5.034
|>	Ge	72	82784.626	86530.566		ug/L	
|	As r	75	31639.957	-352.353	36.280	ug/L	4.705
|	As u	75	36070.849	4067.450	38.212	ug/L	4.788
|	Se r	82	6.389	4.722	0.021	ug/L	717.118
|	Se	77	1427.609	1367.597	1.751	ug/L	58.071
⌊	Sr	88	4694425.754	183.337	404.199	ug/L	4.348
⌈	Ag r	107	32.667	30.334	0.001	ug/L	118.289
|	Ag	109	20.000	29.667	-0.002	ug/L	33.468
|	Cd r	111	111.560	143.360	-0.022	ug/L	81.823
|	Cd	106	-2370.028	-2210.438	-2.353	ug/L	34.196
|	Cd	108	-2439.358	-2310.098	-2.749	ug/L	47.623
|	Cd	114	17.629	14.760	0.001	ug/L	166.280
|	Cd u	111	10.000	9.667	0.001	ug/L	280.963
|>	In	115	168326.280	175404.076		ug/L	
|	Sb r	123	45.449	34.164	0.004	ug/L	65.720
⌊	Sb	121	45.334	33.000	0.004	ug/L	34.922

⌈	Sn	118	262.340	195.338	**0.022**	ug/L	22.341
|	Sn r	120	372.679	255.674	**0.027**	ug/L	11.152
|	Ba r	137	339262.370	43.667	**191.285**	ug/L	3.475
|	Ba	135	195177.734	20.000	**189.251**	ug/L	3.912
|>	Tb	159	201412.480	211870.271		ug/L	
|	Tl r	205	385.680	837.721	**-0.039**	ug/L	5.374
|	Tl	203	154.336	337.344	**-0.038**	ug/L	8.833
|	U	238	1410.810	30.667	**0.078**	ug/L	4.707
⌊	Pb	208	1374.395	504.012	**0.065**	ug/L	5.533
⌈	Na	23	91856682.432	21260.554	**21.544**	mg/L	4.201
|	Mg	24	4771949.089	709.040	**1.608**	mg/L	4.051
|	K	39	6064531.358	458015.620	**0.772**	mg/L	2.861
|	Ca	44	1645145.287	10752.953	**8.117**	mg/L	3.543
|	Fe	54	777105.981	21271.210	**1.408**	mg/L	4.542
⌊>	Sc-1	45	292623.006	293669.979		ug/L	
	Kr	83	70.334	70.334		ug/L	
	Cl	35	26151683.460	26810658.688		mg/L	
	C	12	363544.297	304308.241		mg/L	
	Y	89	158509.458	167906.034		ug/L	
⌈	Br	79	1948.600	1887.917	**0.773**	ug/L	43.850
|	Br	81	13074.901	13439.866	**1.225**	ug/L	25.228
⌊>	Ge-1	72	82784.626	86530.566		ug/L	
	Ru	99	3.000	2.667		ug/L	
	Pd	105	2096.307	1950.934		ug/L	
	Ho	165	196731.177	208038.839		ug/L	
	Th	232	369.346	763.380	**-0.021**	ug/L	2.159
⌈	Mo	95	965.404	105.335	**0.475**	ug/L	4.682
|	Mo	97	594.362	68.001	**0.457**	ug/L	0.669
|	Mo r	98	1585.737	175.116	**0.466**	ug/L	6.076
|	Rh	103	128.669	2.667		ug/L	
⌊>	In-1	115	168326.280	175404.076		ug/L	
	Ti	47	590.362	183.004		ug/L	
	Li	7	75281.820	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	Sample greater than CLM3
Ba r 137 Upper, S, EEE	Ba r	137	Sample greater than CLM3
Na 23 Upper, S, EEE	Na	23	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: BB20907-DUP1

Sample Description:
Autosampler Position: 23
Sample Date/Time: Monday, February 13, 2012 10:42:33
Dataset File: C:\Elandata\Dataset\EL120213\BB20907-DUP1.019
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	2.667	2.333	0.001	ug/L	147.023
|>	Li u	6	332789.352	343542.862		ug/L	
⌊	Li	6	326634.373	341727.648		ug/L	
⌈	Be	9	2.667	2.333	0.001	ug/L	151.955
|	B	11	18311.327	142.669	51.796	ug/L	6.107
|	Al	27	12478.245	1507.830	2.919	ug/L	3.842
|>	Sc	45	288301.957	293669.979		ug/L	
|	V r	51	-1578.394	-1609.015	0.000	ug/L	21288.281
|	V u	51	84670.681	90091.537	-0.607	ug/L	94.557
|	Cr r	52	7481.378	8054.295	-0.081	ug/L	33.348
|	Cr	53	29441.231	31139.892	-2.000	ug/L	94.360
|	Mn	55	4197589.980	367.679	498.363	ug/L	6.776
|	Co	59	219.005	42.001	0.030	ug/L	16.062
|	Ni r	60	589.029	78.001	0.422	ug/L	10.772
|	Ni	62	102.668	85.668	0.107	ug/L	75.892
|	Cu r	63	11495.045	199.338	4.665	ug/L	5.716
⌊	Cu	65	4950.644	89.668	4.351	ug/L	5.238
⌈	Zn r	66	420.349	205.671	0.358	ug/L	2.019
|	Zn	67	3224.375	2553.783	7.490	ug/L	4.545
|	Zn	68	3134.672	362.345	5.999	ug/L	8.028
|>	Ge	72	81420.469	86530.566		ug/L	
|	As r	75	32011.483	-352.353	37.331	ug/L	8.155
|	As u	75	36559.316	4067.450	39.541	ug/L	8.827
|	Se r	82	-12.331	4.722	-0.180	ug/L	111.360
|	Se	77	1423.563	1367.597	2.053	ug/L	80.497
⌊	Sr	88	4883992.758	183.337	427.717	ug/L	6.737
⌈	Ag r	107	29.334	30.334	0.000	ug/L	731.609
|	Ag	109	15.667	29.667	-0.003	ug/L	33.616
|	Cd r	111	73.783	143.360	-0.053	ug/L	24.166
|	Cd	106	-2299.491	-2210.438	-2.255	ug/L	29.451
|	Cd	108	-2332.041	-2310.098	-2.174	ug/L	31.000
|	Cd	114	7.471	14.760	-0.002	ug/L	60.322
|	Cd u	111	5.667	9.667	-0.003	ug/L	46.454
|>	In	115	164100.334	175404.076		ug/L	
|	Sb r	123	47.650	34.164	0.006	ug/L	46.475
⌊	Sb	121	38.000	33.000	0.002	ug/L	102.805

⌈	Sn	118	280.675	195.338	**0.027**	ug/L	39.536
|	Sn r	120	362.345	255.674	**0.025**	ug/L	10.621
|	Ba r	137	344117.629	43.667	**195.792**	ug/L	5.909
|	Ba	135	197483.843	20.000	**193.246**	ug/L	5.808
|>	Tb	159	199580.963	211870.271		ug/L	
|	Tl r	205	315.010	837.721	**-0.045**	ug/L	5.913
|	Tl	203	118.669	337.344	**-0.046**	ug/L	11.376
|	U	238	1441.483	30.667	**0.080**	ug/L	5.135
⌊	Pb	208	1479.071	504.012	**0.074**	ug/L	8.342
⌈	Na	23	93665269.729	21260.554	**22.300**	mg/L	4.915
|	Mg	24	4933767.114	709.040	**1.687**	mg/L	5.858
|	K	39	6227538.040	458015.620	**0.807**	mg/L	5.388
|	Ca	44	1690845.305	10752.953	**8.474**	mg/L	7.656
|	Fe	54	795828.040	21271.210	**1.466**	mg/L	7.952
⌊>	Sc-1	45	288301.957	293669.979		ug/L	
	Kr	83	76.334	70.334		ug/L	
	Cl	35	26899770.367	26810658.688		mg/L	
	C	12	362327.519	304308.241		mg/L	
	Y	89	157542.593	167906.034		ug/L	
⌈	Br	79	1845.574	1887.917	**0.385**	ug/L	216.228
|	Br	81	12394.783	13439.866	**-1.421**	ug/L	275.776
⌊>	Ge-1	72	81420.469	86530.566		ug/L	
	Ru	99	1.333	2.667		ug/L	
	Pd	105	2013.617	1950.934		ug/L	
	Ho	165	195382.252	208038.839		ug/L	
	Th	232	309.009	763.380	**-0.024**	ug/L	5.077
⌈	Mo	95	962.070	105.335	**0.488**	ug/L	8.997
|	Mo	97	650.701	68.001	**0.521**	ug/L	9.365
|	Mo r	98	1632.636	175.116	**0.496**	ug/L	8.670
|	Rh	103	136.336	2.667		ug/L	
⌊>	In-1	115	164100.334	175404.076		ug/L	
	Tl	47	640.700	183.004		ug/L	
	Li	7	75893.708	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	Sample greater than CLM3
Ba r 137 Upper, S, EEE	Ba r	137	Sample greater than CLM3
Na 23 Upper, S, EEE	Na	23	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-36

Sample Description:
Autosampler Position: 24
Sample Date/Time: Monday, February 13, 2012 10:47:52
Dataset File: C:\Elandata\Dataset\EL120213\1202003-36.020
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	2.000	2.333	-0.001	ug/L	10.729
|>	Li u	6	333925.825	343542.862		ug/L	
⌞	Li	6	331821.148	341727.648		ug/L	
⌜	Be	9	2.000	2.333	-0.001	ug/L	5.452
|	B	11	2131.317	142.669	5.928	ug/L	7.704
|	Al	27	68757.423	1507.830	18.616	ug/L	9.122
|>	Sc	45	276811.032	293669.979		ug/L	
|	V r	51	-2033.849	-1609.015	-0.085	ug/L	325.394
|	V u	51	89920.535	90091.537	0.842	ug/L	38.065
|	Cr r	52	7911.814	8054.295	0.063	ug/L	49.954
|	Cr	53	31268.426	31139.892	3.550	ug/L	44.387
|	Mn	55	129389.231	367.679	15.957	ug/L	3.875
|	Co	59	418.016	42.001	0.067	ug/L	6.065
|	Ni r	60	717.374	78.001	0.552	ug/L	1.251
|	Ni	62	98.002	85.668	0.104	ug/L	56.187
|	Cu r	63	32223.414	199.338	13.773	ug/L	4.499
⌞	Cu	65	15018.809	89.668	13.917	ug/L	3.891
⌜	Zn r	66	857.056	205.671	1.069	ug/L	1.471
|	Zn	67	2660.487	2553.783	2.728	ug/L	2.711
|	Zn	68	1177.435	362.345	1.837	ug/L	6.920
|>	Ge	72	80161.398	86530.566		ug/L	
|	As r	75	-87.853	-352.353	0.280	ug/L	68.293
|	As u	75	5013.350	4067.450	1.527	ug/L	1.405
|	Se r	82	4.441	4.722	0.001	ug/L	11794.254
|	Se	77	1604.693	1367.597	5.120	ug/L	13.291
⌞	Sr	88	923214.163	183.337	82.114	ug/L	4.125
⌜	Ag r	107	44.334	30.334	0.004	ug/L	14.011
|	Ag	109	35.667	29.667	0.002	ug/L	24.005
|	Cd r	111	127.686	143.360	-0.003	ug/L	433.444
|	Cd	106	-1999.699	-2210.438	0.297	ug/L	16.631
|	Cd	108	-2087.221	-2310.098	0.437	ug/L	84.960
|	Cd	114	22.788	14.760	0.004	ug/L	34.216
|	Cd u	111	10.000	9.667	0.001	ug/L	297.693
|>	In	115	161067.534	175404.076		ug/L	
|	Sb r	123	72.365	34.164	0.015	ug/L	15.226
⌞	Sb	121	85.668	33.000	0.015	ug/L	4.218

⌈	Sn	118	877.726	195.338	**0.205**	ug/L	3.618
|	Sn r	120	1222.109	255.674	**0.212**	ug/L	2.863
|	Ba r	137	47154.306	43.667	**27.656**	ug/L	5.115
|	Ba	135	27230.758	20.000	**27.472**	ug/L	5.702
|>	Tb	159	193612.643	211870.271		ug/L	
|	Tl r	205	309.343	837.721	**-0.045**	ug/L	1.949
|	Tl	203	135.336	337.344	**-0.041**	ug/L	2.228
|	U	238	7034.289	30.667	**0.410**	ug/L	6.065
⌊	Pb	208	6762.226	504.012	**0.479**	ug/L	4.656
⌈	Na	23	8745342.497	21260.554	**2.164**	mg/L	5.011
|	Mg	24	8234542.379	709.040	**2.933**	mg/L	4.753
|	K	39	3563634.007	458015.620	**0.456**	mg/L	3.818
|	Ca	44	1894667.563	10752.953	**9.896**	mg/L	4.036
|	Fe	54	31963.931	21271.210	**0.023**	mg/L	11.059
⌊>	Sc-1	45	276811.032	293669.979		ug/L	
	Kr	83	64.334	70.334		ug/L	
	Cl	35	26384276.223	26810658.688		mg/L	
	C	12	344604.434	304308.241		mg/L	
	Y	89	152025.282	167906.034		ug/L	
⌈	Br	79	1980.275	1887.917	**1.295**	ug/L	36.716
|	Br	81	12362.388	13439.866	**-0.488**	ug/L	586.844
⌊>	Ge-1	72	80161.398	86530.566		ug/L	
	Ru	99	1.000	2.667		ug/L	
	Pd	105	1766.220	1950.934		ug/L	
	Ho	165	188211.433	208038.839		ug/L	
	Th	232	202.338	763.380	**-0.030**	ug/L	5.378
⌈	Mo	95	292.008	105.335	**0.112**	ug/L	3.715
|	Mo	97	189.004	68.001	**0.114**	ug/L	7.356
|	Mo r	98	488.466	175.116	**0.113**	ug/L	10.731
|	Rh	103	46.667	2.667		ug/L	
⌊>	In-1	115	161067.534	175404.076		ug/L	
	Ti	47	372.679	183.004		ug/L	
	Li	7	25951.632	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: BB20907-MS1

Sample Description:
Autosampler Position: 25
Sample Date/Time: Monday, February 13, 2012 10:53:08
Dataset File: C:\Elandata\Dataset\EL120213\BB20907-MS1.021
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	637.699	2.333	2.133	ug/L	4.182
|>	Li u	6	330530.253	343542.862		ug/L	
⌞	Li	6	326576.289	341727.648		ug/L	
⌜	Be	9	637.699	2.333	2.339	ug/L	5.539
|	B	11	9689.868	142.669	28.332	ug/L	7.501
|	Al	27	358410.056	1507.830	98.571	ug/L	7.366
|>	Sc	45	277609.819	293669.979		ug/L	
|	V r	51	122864.609	-1609.015	20.567	ug/L	5.910
|	V u	51	222395.799	90091.537	23.079	ug/L	9.032
|	Cr r	52	114652.699	8054.295	21.101	ug/L	9.118
|	Cr	53	45539.555	31139.892	29.816	ug/L	14.248
|	Mn	55	301292.889	367.679	37.166	ug/L	6.820
|	Co	59	117890.687	42.001	20.745	ug/L	7.397
|	Ni r	60	24464.097	78.001	20.887	ug/L	6.283
|	Ni	62	3501.500	85.668	20.572	ug/L	8.986
|	Cu r	63	79529.396	199.338	34.086	ug/L	8.815
⌞	Cu	65	37298.055	89.668	34.646	ug/L	8.417
⌜	Zn r	66	14491.143	205.671	23.231	ug/L	5.257
|	Zn	67	5431.305	2553.783	29.035	ug/L	4.415
|	Zn	68	11988.798	362.345	25.745	ug/L	3.739
|>	Ge	72	79135.100	86530.566		ug/L	
|	As r	75	17962.461	-352.353	21.702	ug/L	5.301
|	As u	75	23011.994	4067.450	23.964	ug/L	5.941
|	Se r	82	2018.449	4.722	22.332	ug/L	2.343
|	Se	77	3292.630	1367.597	31.399	ug/L	5.807
⌞	Sr	88	1157673.878	183.337	104.251	ug/L	5.068
⌜	Ag r	107	9697.211	30.334	2.068	ug/L	5.295
|	Ag	109	9167.886	29.667	2.048	ug/L	3.849
|	Cd r	111	2484.522	143.360	2.072	ug/L	7.404
|	Cd	106	-1755.791	-2210.438	3.027	ug/L	7.382
|	Cd	108	-1856.475	-2310.098	3.863	ug/L	8.993
|	Cd	114	5476.758	14.760	2.096	ug/L	5.918
|	Cd u	111	2426.741	9.667	2.120	ug/L	7.918
|>	In	115	164024.436	175404.076		ug/L	
|	Sb r	123	60253.296	34.164	21.129	ug/L	5.283
⌞	Sb	121	79055.267	33.000	21.023	ug/L	5.141

⌈	Sn	118	70149.793	195.338	**20.539**	ug/L	5.219
|	Sn r	120	96911.241	255.674	**20.737**	ug/L	4.986
|	Ba r	137	186596.332	43.667	**109.601**	ug/L	4.598
|	Ba	135	109383.832	20.000	**110.490**	ug/L	4.277
|>	Tb	159	193376.752	211870.271		ug/L	
|	Tl r	205	194820.038	837.721	**18.989**	ug/L	3.705
|	Tl	203	80495.377	337.344	**18.964**	ug/L	4.498
|	U	238	356235.621	30.667	**20.870**	ug/L	4.773
⌊	Pb	208	276691.224	504.012	**21.017**	ug/L	4.379
⌈	Na	23	10342218.349	21260.554	**2.557**	mg/L	8.058
|	Mg	24	9338284.095	709.040	**3.322**	mg/L	7.223
|	K	39	9410889.981	458015.620	**1.305**	mg/L	8.063
|	Ca	44	2100430.385	10752.953	**10.991**	mg/L	16.918
|	Fe	54	116050.509	21271.210	**0.189**	mg/L	8.682
⌊>	Sc-1	45	277609.819	293669.979		ug/L	
	Kr	83	59.667	70.334		ug/L	
	Cl	35	26116715.586	26810658.688		mg/L	
	C	12	346075.137	304308.241		mg/L	
	Y	89	152678.638	167906.034		ug/L	
⌈	Br	79	3415.126	1887.917	**9.553**	ug/L	7.748
|	Br	81	13870.968	13439.866	**9.329**	ug/L	14.002
⌊>	Ge-1	72	79135.100	86530.566		ug/L	
	Ru	99	3.000	2.667		ug/L	
	Pd	105	1762.220	1950.934		ug/L	
	Ho	165	187575.668	208038.839		ug/L	
	Th	232	325.010	763.380	**-0.024**	ug/L	6.721
⌈	Mo	95	36384.370	105.335	**20.492**	ug/L	6.942
|	Mo	97	23398.456	68.001	**20.714**	ug/L	4.705
|	Mo r	98	61076.698	175.116	**20.555**	ug/L	4.985
|	Rh	103	55.334	2.667		ug/L	
⌊>	In-1	115	164024.436	175404.076		ug/L	
	Tl	47	9049.746	183.004		ug/L	
	Li	7	48754.179	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ba r 137 Upper, S, EEE	Ba r 137	Sample greater than CLM3
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-37

Sample Description:
Autosampler Position: 26
Sample Date/Time: Monday, February 13, 2012 10:58:24
Dataset File: C:\Elandata\Dataset\EL120213\1202003-37.022
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.667	2.333	-0.002	ug/L	97.573
|>	Li u	6	335336.517	343542.862		ug/L	
L	Li	6	333329.916	341727.648		ug/L	
⌈	Be	9	1.667	2.333	-0.002	ug/L	115.746
|	B	11	2754.188	142.669	7.811	ug/L	6.603
|	Al	27	7943.867	1507.830	1.814	ug/L	12.868
|>	Sc	45	275803.321	293669.979		ug/L	
|	V r	51	-2784.645	-1609.015	-0.210	ug/L	104.255
|	V u	51	99248.899	90091.537	2.477	ug/L	16.917
|	Cr r	52	9209.936	8054.295	0.326	ug/L	10.815
|	Cr	53	34638.160	31139.892	10.025	ug/L	8.196
|	Mn	55	2705.503	367.679	0.293	ug/L	4.382
|	Co	59	113.335	42.001	0.013	ug/L	34.670
|	Ni r	60	375.013	78.001	0.260	ug/L	3.955
|	Ni	62	78.001	85.668	-0.015	ug/L	448.275
|	Cu r	63	23918.751	199.338	10.246	ug/L	6.231
L	Cu	65	11117.148	89.668	10.325	ug/L	5.836
⌈	Zn r	66	1551.172	205.671	2.199	ug/L	7.366
|	Zn	67	2854.225	2553.783	4.690	ug/L	19.943
|	Zn	68	1958.602	362.345	3.567	ug/L	3.606
|>	Ge	72	79655.141	86530.566		ug/L	
|	As r	75	-335.739	-352.353	-0.014	ug/L	832.906
|	As u	75	5893.650	4067.450	2.653	ug/L	5.705
|	Se r	82	7.847	4.722	0.039	ug/L	400.567
|	Se	77	1961.179	1367.597	10.728	ug/L	2.567
L	Sr	88	376365.126	183.337	33.679	ug/L	5.375
⌈	Ag r	107	32.334	30.334	0.001	ug/L	106.266
|	Ag	109	31.334	29.667	0.001	ug/L	96.899
|	Cd r	111	121.436	143.360	-0.009	ug/L	97.624
|	Cd	106	-1904.050	-2210.438	1.277	ug/L	82.643
|	Cd	108	-1989.539	-2310.098	1.749	ug/L	86.506
|	Cd	114	9.771	14.760	-0.001	ug/L	8.586
|	Cd u	111	7.000	9.667	-0.002	ug/L	104.360
|>	In	115	161380.763	175404.076		ug/L	
|	Sb r	123	59.413	34.164	0.010	ug/L	30.570
L	Sb	121	72.001	33.000	0.011	ug/L	11.700

⌈	Sn	118	567.693	195.338	**0.114**	ug/L	13.352
|	Sn r	120	813.385	255.674	**0.124**	ug/L	10.056
|	Ba r	137	79543.949	43.667	**46.516**	ug/L	5.373
|	Ba	135	46957.804	20.000	**47.226**	ug/L	3.694
|>	Tb	159	194143.516	211870.271		ug/L	
|	Tl r	205	1361.475	837.721	**0.058**	ug/L	71.030
|	Tl	203	565.027	337.344	**0.060**	ug/L	53.072
|	U	238	344.011	30.667	**0.018**	ug/L	22.446
⌊	Pb	208	7921.004	504.012	**0.565**	ug/L	4.802
⌈	Na	23	9435574.915	21260.554	**2.345**	mg/L	6.282
|	Mg	24	3881636.056	709.040	**1.388**	mg/L	6.715
|	K	39	2832683.384	458015.620	**0.351**	mg/L	5.637
|	Ca	44	1077543.127	10752.953	**5.629**	mg/L	5.247
|	Fe	54	27941.275	21271.210	**0.016**	mg/L	14.385
⌊>	Sc-1	45	275803.321	293669.979		ug/L	
	Kr	83	56.001	70.334		ug/L	
	Cl	35	25650402.064	26810658.688		mg/L	
	C	12	340871.950	304308.241		mg/L	
	Y	89	151334.708	167906.034		ug/L	
⌈	Br	79	1426.480	1887.917	**-1.746**	ug/L	23.990
|	Br	81	11537.095	13439.866	**-4.889**	ug/L	24.277
⌊>	Ge-1	72	79655.141	86530.566		ug/L	
	Ru	99	0.333	2.667		ug/L	
	Pd	105	1681.534	1950.934		ug/L	
	Ho	165	189872.485	208038.839		ug/L	
	Th	232	118.002	763.380	**-0.035**	ug/L	2.724
⌈	Mo	95	130.669	105.335	**0.019**	ug/L	17.594
|	Mo	97	87.001	68.001	**0.022**	ug/L	63.739
|	Mo r	98	215.044	175.116	**0.018**	ug/L	72.979
|	Rh	103	22.000	2.667		ug/L	
⌊>	In-1	115	161380.763	175404.076		ug/L	
	Ti	47	374.013	183.004		ug/L	
	Li	7	24742.311	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Monday, February 13, 2012 11:03:37
Dataset File: C:\Elandata\Dataset\EL120213\QC Std 2.023
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

✓ Se high

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	15352.460	2.333	**51.117**	ug/L	1.598
|>	Li u	6	332899.175	343542.862		ug/L	
⌊	Li	6	331139.810	341727.648		ug/L	
⌈	Be	9	15352.460	2.333	**55.228**	ug/L	2.398
|	B	11	19815.021	142.669	**57.013**	ug/L	2.049
|	Al	27	189512.682	1507.830	**50.742**	ug/L	1.983
|>	Sc	45	283640.008	293669.979		ug/L	
|	V r	51	311445.018	-1609.015	**50.587**	ug/L	0.915
|	V u	51	399750.288	90091.537	**51.370**	ug/L	1.358
|	Cr r	52	273518.856	8054.295	**51.157**	ug/L	1.002
|	Cr	53	59806.924	31139.892	**53.702**	ug/L	2.640
|	Mn	55	423953.678	367.679	**51.121**	ug/L	1.314
|	Co	59	290449.310	42.001	**49.945**	ug/L	1.093
|	Ni r	60	59610.676	78.001	**49.838**	ug/L	2.543
|	Ni	62	8676.644	85.668	**50.495**	ug/L	2.943
|	Cu r	63	120058.630	199.338	**50.299**	ug/L	2.119
⌊	Cu	65	56020.842	89.668	**50.872**	ug/L	1.107
⌈	Zn r	66	34470.756	205.671	**54.079**	ug/L	0.771
|	Zn	67	8533.152	2553.783	**55.824**	ug/L	2.986
|	Zn	68	25239.935	362.345	**53.413**	ug/L	0.748
|>	Ge	72	81471.012	86530.566		ug/L	
|	As r	75	44539.060	-352.353	**51.730**	ug/L	1.325
|	As u	75	46475.793	4067.450	**51.458**	ug/L	0.781
|	Se r	82	5161.940	4.722	**55.541**	ug/L	1.495
|	Se	77	5084.609	1367.597	**56.710**	ug/L	2.953
⌊	Sr	88	567570.310	183.337	**49.637**	ug/L	1.194
⌈	Ag r	107	232390.882	30.334	**50.159**	ug/L	1.448
|	Ag	109	219681.503	29.667	**49.689**	ug/L	2.799
|	Cd r	111	57373.327	143.360	**50.910**	ug/L	2.427
|	Cd	106	3256.684	-2210.438	**52.066**	ug/L	4.392
|	Cd	108	1838.314	-2310.098	**51.022**	ug/L	1.229
|	Cd	114	132504.906	14.760	**51.301**	ug/L	2.174
|	Cd u	111	57458.384	9.667	**50.830**	ug/L	2.141
|>	In	115	162463.217	175404.076		ug/L	
|	Sb r	123	142260.963	34.164	**50.350**	ug/L	0.720
⌊	Sb	121	188969.945	33.000	**50.724**	ug/L	1.823

⌈	Sn	118	173563.349	195.338	**50.207**	ug/L	1.830
|	Sn r	120	233736.802	255.674	**49.412**	ug/L	1.655
|	Ba r	137	86619.489	43.667	**50.180**	ug/L	1.076
|	Ba	135	49883.727	20.000	**49.702**	ug/L	1.533
|>	Tb	159	195958.067	211870.271		ug/L	
|	Tl r	205	494158.327	837.721	**47.633**	ug/L	1.755
|	Tl	203	203738.997	337.344	**47.465**	ug/L	2.744
|	U	238	856373.794	30.667	**49.497**	ug/L	1.675
⌊	Pb	208	664788.026	504.012	**49.865**	ug/L	1.331
⌈	Na	23	21833673.545	21260.554	**5.279**	mg/L	0.668
|	Mg	24	15284196.783	709.040	**5.312**	mg/L	0.560
|	K	39	37290909.644	458015.620	**5.234**	mg/L	1.746
|	Ca	44	892043.348	10752.953	**4.519**	mg/L	1.604
|	Fe	54	2762112.573	21271.210	**5.272**	mg/L	2.476
⌊>	Sc-1	45	283640.008	293669.979		ug/L	
	Kr	83	63.668	70.334		ug/L	
	Cl	35	25958344.956	26810658.688		mg/L	
	C	12	338613.122	304308.241		mg/L	
	Y	89	155429.722	167906.034		ug/L	
⌈	Br	79	10781.329	1887.917	**49.466**	ug/L	2.516
|	Br	81	21131.204	13439.866	**48.594**	ug/L	3.358
⌊>	Ge-1	72	81471.012	86530.566		ug/L	
	Ru	99	13.000	2.667		ug/L	
	Pd	105	1785.225	1950.934		ug/L	
	Ho	165	189661.366	208038.839		ug/L	
	Th	232	795131.866	763.380	**42.694**	ug/L	1.500
⌈	Mo	95	88180.144	105.335	**50.185**	ug/L	0.940
|	Mo	97	56346.561	68.001	**50.418**	ug/L	1.817
|	Mo r	98	146482.925	175.116	**49.828**	ug/L	1.305
|	Rh	103	47.334	2.667		ug/L	
⌊>	In-1	115	162463.217	175404.076		ug/L	
	Ti	47	232.339	183.004		ug/L	
	Li	7	21693.768	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
QC Std 2	Be	9	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Zn	67	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Se r	82	CCV (CLC) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 4

Sample Description:
Autosampler Position: 1
Sample Date/Time: Monday, February 13, 2012 11:08:49
Dataset File: C:\Elandata\Dataset\EL120213\QC Std 4.024
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.000	2.333	-0.004	ug/L	77.410
|>	Li u	6	340155.350	343542.862		ug/L	
⌊	Li	6	338324.032	341727.648		ug/L	
⌈	Be	9	1.000	2.333	-0.005	ug/L	78.261
|	B	11	239.673	142.669	0.290	ug/L	71.073
|	Al	27	1445.484	1507.830	-0.006	ug/L	79.051
|>	Sc	45	286209.294	293669.979		ug/L	
|	V r	51	-1037.242	-1609.015	0.085	ug/L	83.101
|	V u	51	84191.441	90091.537	-0.590	ug/L	64.130
|	Cr r	52	7516.079	8054.295	-0.064	ug/L	17.544
|	Cr	53	29382.685	31139.892	-1.737	ug/L	85.445
|	Mn	55	372.013	367.679	0.002	ug/L	362.342
|	Co	59	29.334	42.001	-0.002	ug/L	23.738
|	Ni r	60	65.001	78.001	-0.009	ug/L	107.347
|	Ni	62	75.668	85.668	-0.046	ug/L	19.588
|	Cu r	63	172.670	199.338	-0.009	ug/L	90.936
⌊	Cu	65	99.668	89.668	0.011	ug/L	123.560
⌈	Zn r	66	192.338	205.671	-0.002	ug/L	337.552
|	Zn	67	2479.425	2553.783	0.708	ug/L	111.089
|	Zn	68	363.012	362.345	0.048	ug/L	153.147
|>	Ge	72	81372.626	86530.566		ug/L	
|	As r	75	-306.722	-352.353	0.028	ug/L	532.631
|	As u	75	3852.339	4067.450	0.032	ug/L	930.039
|	Se r	82	-7.244	4.722	-0.126	ug/L	120.244
|	Se	77	1315.618	1367.597	0.437	ug/L	221.440
⌊	Sr	88	186.337	183.337	0.001	ug/L	85.619
⌈	Ag r	107	44.334	30.334	0.003	ug/L	133.451
|	Ag	109	41.667	29.667	0.003	ug/L	208.087
|	Cd r	111	142.517	143.360	0.003	ug/L	686.256
|	Cd	106	-2041.754	-2210.438	1.000	ug/L	45.003
|	Cd	108	-2146.138	-2310.098	1.218	ug/L	66.553
|	Cd	114	15.724	14.760	0.001	ug/L	405.694
|	Cd u	111	9.333	9.667	-0.000	ug/L	5175.556
|>	In	115	170466.642	175404.076		ug/L	
|	Sb r	123	47.831	34.164	0.005	ug/L	89.936
⌊	Sb	121	49.667	33.000	0.005	ug/L	37.268

⌈	Sn	118	283.675	195.338	**0.026**	ug/L	49.646
|	Sn r	120	418.349	255.674	**0.034**	ug/L	41.864
|	Ba r	137	39.000	43.667	**-0.002**	ug/L	395.853
|	Ba	135	19.334	20.000	**-0.000**	ug/L	7751.385
|>	Tb	159	205547.751	211870.271		ug/L	
|	Tl r	205	2584.491	837.721	**0.163**	ug/L	47.985
|	Tl	203	1103.763	337.344	**0.173**	ug/L	46.954
|	U	238	129.336	30.667	**0.005**	ug/L	68.457
⌊	Pb	208	435.009	504.012	**-0.004**	ug/L	38.229
⌈	Na	23	23181.445	21260.554	**0.001**	mg/L	18.265
|	Mg	24	970.740	709.040	**0.000**	mg/L	89.294
|	K	39	433074.831	458015.620	**-0.002**	mg/L	31.838
|	Ca	44	9289.366	10752.953	**-0.006**	mg/L	6.799
|	Fe	54	20243.219	21271.210	**-0.001**	mg/L	69.727
⌊>	Sc-1	45	286209.294	293669.979		ug/L	
	Kr	83	66.334	70.334		ug/L	
	Cl	35	25903298.754	26810658.688		mg/L	
	C	12	300875.146	304308.241		mg/L	
	Y	89	158392.520	167906.034		ug/L	
⌈	Br	79	1821.568	1887.917	**0.256**	ug/L	207.502
|	Br	81	12266.562	13439.866	**-2.136**	ug/L	18.127
⌊>	Ge-1	72	81372.626	86530.566		ug/L	
	Ru	99	1.667	2.667		ug/L	
	Pd	105	1812.565	1950.934		ug/L	
	Ho	165	200290.055	208038.839		ug/L	
	Th	232	3409.874	763.380	**0.142**	ug/L	52.801
⌈	Mo	95	179.337	105.335	**0.042**	ug/L	38.023
|	Mo	97	107.002	68.001	**0.035**	ug/L	77.581
|	Mo r	98	288.675	175.116	**0.038**	ug/L	34.222
|	Rh	103	6.000	2.667		ug/L	
⌊>	In-1	115	170466.642	175404.076		ug/L	
	Ti	47	160.337	183.004		ug/L	
	Li	7	22580.989	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
QC Std 4	V u	51	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cr	53	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Zn	67	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cd	106	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cd	108	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br	81	IBL (LCB) is out of limits (+/- 0.400ug/L)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-38

Sample Description:
Autosampler Position: 27
Sample Date/Time: Monday, February 13, 2012 11:14:06
Dataset File: C:\Elandata\Dataset\EL120213\1202003-38.025
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.333	2.333	-0.003	ug/L	63.551
|>	Li u	6	328272.547	343542.862		ug/L	
⌊	Li	6	326192.011	341727.648		ug/L	
⌈	Be	9	1.333	2.333	-0.003	ug/L	69.847
|	B	11	2086.972	142.669	5.936	ug/L	9.156
|	Al	27	36570.916	1507.830	9.947	ug/L	10.650
|>	Sc	45	270790.829	293669.979		ug/L	
|	V r	51	-2010.078	-1609.015	-0.091	ug/L	301.991
|	V u	51	91453.188	90091.537	1.445	ug/L	34.201
|	Cr r	52	8024.931	8054.295	0.121	ug/L	5.842
|	Cr	53	31659.376	31139.892	5.585	ug/L	42.053
|	Mn	55	129475.997	367.679	16.331	ug/L	9.287
|	Co	59	412.682	42.001	0.067	ug/L	3.907
|	Ni r	60	759.379	78.001	0.603	ug/L	10.467
|	Ni	62	115.002	85.668	0.222	ug/L	38.012
|	Cu r	63	10796.360	199.338	4.665	ug/L	6.520
⌊	Cu	65	5074.731	89.668	4.758	ug/L	8.755
⌈	Zn r	66	1948.600	205.671	2.883	ug/L	6.789
|	Zn	67	2878.234	2553.783	5.260	ug/L	8.580
|	Zn	68	1989.945	362.345	3.697	ug/L	10.406
|>	Ge	72	78628.055	86530.566		ug/L	
|	As r	75	-347.570	-352.353	-0.031	ug/L	487.526
|	As u	75	4931.630	4067.450	1.548	ug/L	11.687
|	Se r	82	2.116	4.722	-0.023	ug/L	658.296
|	Se	77	1576.028	1367.597	5.168	ug/L	14.681
⌊	Sr	88	947846.816	183.337	86.009	ug/L	8.243
⌈	Ag r	107	37.000	30.334	0.002	ug/L	124.931
|	Ag	109	32.000	29.667	0.001	ug/L	182.056
|	Cd r	111	135.780	143.360	0.004	ug/L	327.594
|	Cd	106	-2077.870	-2210.438	-0.553	ug/L	181.300
|	Cd	108	-2170.090	-2310.098	-0.731	ug/L	148.083
|	Cd	114	28.764	14.760	0.006	ug/L	43.438
|	Cd u	111	11.667	9.667	0.003	ug/L	73.658
|>	In	115	160563.629	175404.076		ug/L	
|	Sb r	123	68.704	34.164	0.013	ug/L	46.833
⌊	Sb	121	94.002	33.000	0.017	ug/L	7.632

⌈	Sn	118	257.340	195.338	**0.024**	ug/L	27.156
|	Sn r	120	362.345	255.674	**0.028**	ug/L	12.387
|	Ba r	137	47442.705	43.667	**28.046**	ug/L	8.677
|	Ba	135	28078.185	20.000	**28.544**	ug/L	7.451
|>	Tb	159	192215.375	211870.271		ug/L	
|	Tl r	205	895.394	837.721	**0.013**	ug/L	43.354
|	Tl	203	386.680	337.344	**0.019**	ug/L	23.749
|	U	238	7072.676	30.667	**0.416**	ug/L	12.514
⌊	Pb	208	6137.345	504.012	**0.435**	ug/L	10.213
⌈	Na	23	8728897.249	21260.554	**2.209**	mg/L	8.595
|	Mg	24	8287116.630	709.040	**3.019**	mg/L	9.009
|	K	39	3547106.283	458015.620	**0.465**	mg/L	8.378
|	Ca	44	2023920.052	10752.953	**10.825**	mg/L	20.792
|	Fe	54	27810.857	21271.210	**0.017**	mg/L	20.442
⌊>	Sc-1	45	270790.829	293669.979		ug/L	
	Kr	83	63.334	70.334		ug/L	
	Cl	35	26451730.380	26810658.688		mg/L	
	C	12	335563.096	304308.241		mg/L	
	Y	89	149726.104	167906.034		ug/L	
⌈	Br	79	1801.562	1887.917	**0.494**	ug/L	95.157
|	Br	81	12251.538	13439.866	**0.251**	ug/L	505.532
⌊>	Ge-1	72	78628.055	86530.566		ug/L	
	Ru	99	0.667	2.667		ug/L	
	Pd	105	1833.904	1950.934		ug/L	
	Ho	165	188094.557	208038.839		ug/L	
	Th	232	1420.154	763.380	**0.035**	ug/L	67.207
⌈	Mo	95	309.009	105.335	**0.123**	ug/L	16.109
|	Mo	97	209.672	68.001	**0.134**	ug/L	17.891
|	Mo r	98	508.097	175.116	**0.120**	ug/L	14.270
|	Rh	103	40.001	2.667		ug/L	
⌊>	In-1	115	160563.629	175404.076		ug/L	
	Ti	47	388.680	183.004		ug/L	
	Li	7	25653.966	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-39

Sample Description:
Autosampler Position: 28
Sample Date/Time: Monday, February 13, 2012 11:19:23
Dataset File: C:\Elandata\Dataset\EL120213\1202003-39.026
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.000	2.333	-0.004	ug/L	78.971
|>	Li u	6	337904.712	343542.862		ug/L	
⌊	Li	6	335997.038	341727.648		ug/L	
⌈	Be	9	1.000	2.333	-0.005	ug/L	79.848
|	B	11	18886.416	142.669	54.317	ug/L	6.733
|	Al	27	7549.125	1507.830	1.644	ug/L	9.753
|>	Sc	45	283570.782	293669.979		ug/L	
|	V r	51	-1937.705	-1609.015	-0.061	ug/L	520.861
|	V u	51	103682.161	90091.537	2.742	ug/L	18.119
|	Cr r	52	8955.968	8054.295	0.227	ug/L	11.570
|	Cr	53	35921.514	31139.892	10.568	ug/L	30.229
|	Mn	55	2088.974	367.679	0.209	ug/L	14.750
|	Co	59	117.002	42.001	0.013	ug/L	15.251
|	Ni r	60	185.004	78.001	0.092	ug/L	4.785
|	Ni	62	98.002	85.668	0.090	ug/L	80.255
|	Cu r	63	1807.564	199.338	0.678	ug/L	7.245
⌊	Cu	65	205.338	89.668	0.108	ug/L	7.549
⌈	Zn r	66	263.007	205.671	0.109	ug/L	23.324
|	Zn	67	2669.490	2553.783	2.382	ug/L	33.767
|	Zn	68	449.018	362.345	0.230	ug/L	14.839
|>	Ge	72	81604.787	86530.566		ug/L	
|	As r	75	31284.689	-352.353	36.432	ug/L	10.612
|	As u	75	37820.855	4067.450	40.985	ug/L	10.659
|	Se r	82	-24.238	4.722	-0.308	ug/L	44.488
|	Se	77	2014.830	1367.597	10.818	ug/L	6.322
⌊	Sr	88	1249.448	183.337	0.094	ug/L	14.977
⌈	Ag r	107	22.334	30.334	-0.001	ug/L	65.949
|	Ag	109	21.667	29.667	-0.001	ug/L	107.640
|	Cd r	111	43.811	143.360	-0.080	ug/L	24.293
|	Cd	106	-1973.111	-2210.438	1.216	ug/L	19.316
|	Cd	108	-1987.590	-2310.098	2.593	ug/L	7.293
|	Cd	114	15.250	14.760	0.000	ug/L	135.413
|	Cd u	111	7.333	9.667	-0.002	ug/L	36.474
|>	In	115	166654.837	175404.076		ug/L	
|	Sb r	123	39.873	34.164	0.003	ug/L	120.193
⌊	Sb	121	50.334	33.000	0.005	ug/L	57.197

⌈	Sn	118	214.338	195.338	**0.008**	ug/L	45.850
|	Sn r	120	302.342	255.674	**0.012**	ug/L	33.694
|	Ba r	137	172.337	43.667	**0.074**	ug/L	40.271
|	Ba	135	98.668	20.000	**0.077**	ug/L	30.630
|>	Tb	159	201730.566	211870.271		ug/L	
|	Tl r	205	600.030	837.721	**-0.019**	ug/L	25.756
|	Tl	203	220.672	337.344	**-0.023**	ug/L	18.466
|	U	238	1587.181	30.667	**0.088**	ug/L	13.481
⌊	Pb	208	782.024	504.012	**0.022**	ug/L	27.722
⌈	Na	23	169803570.917	21260.554	**41.095**	mg/L	9.228
|	Mg	24	2902.580	709.040	**0.001**	mg/L	12.109
|	K	39	741444.604	458015.620	**0.042**	mg/L	8.050
|	Ca	44	16251.321	10752.953	**0.030**	mg/L	7.798
|	Fe	54	22988.561	21271.210	**0.005**	mg/L	48.887
⌊>	Sc-1	45	283570.782	293669.979		ug/L	
	Kr	83	104.002	70.334		ug/L	
	Cl	35	27309458.492	26810658.688		mg/L	
	C	12	365304.166	304308.241		mg/L	
	Y	89	156476.539	167906.034		ug/L	
⌈	Br	79	2340.713	1887.917	**3.080**	ug/L	22.331
|	Br	81	13112.965	13439.866	**2.515**	ug/L	26.764
⌊>	Ge-1	72	81604.787	86530.566		ug/L	
	Ru	99	1.333	2.667		ug/L	
	Pd	105	1750.217	1950.934		ug/L	
	Ho	165	198738.398	208038.839		ug/L	
	Th	232	1044.088	763.380	**0.015**	ug/L	135.217
⌈	Mo	95	986.740	105.335	**0.493**	ug/L	11.419
|	Mo	97	605.697	68.001	**0.473**	ug/L	19.483
|	Mo r	98	1624.707	175.116	**0.484**	ug/L	7.825
|	Rh	103	5.000	2.667		ug/L	
⌊>	In-1	115	166654.837	175404.076		ug/L	
	Ti	47	600.363	183.004		ug/L	
	Li	7	23522.484	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Na 23 Upper, S, EEE	Na 23	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-40

Sample Description:
Autosampler Position: 29
Sample Date/Time: Monday, February 13, 2012 11:24:40
Dataset File: C:\Elandata\Dataset\EL120213\1202003-40.027
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	0.333	2.333	-0.006	ug/L	30.219
|>	Li u	6	328257.222	343542.862		ug/L	
⌞	Li	6	326172.562	341727.648		ug/L	
⌜	Be	9	0.333	2.333	-0.007	ug/L	32.268
|	B	11	2150.657	142.669	6.200	ug/L	10.584
|	Al	27	3785.641	1507.830	0.689	ug/L	15.892
|>	Sc	45	267963.415	293669.979		ug/L	
|	V r	51	-2116.772	-1609.015	-0.113	ug/L	331.751
|	V u	51	99782.572	90091.537	3.060	ug/L	19.890
|	Cr r	52	8652.951	8054.295	0.266	ug/L	6.815
|	Cr	53	34765.462	31139.892	12.164	ug/L	25.246
|	Mn	55	126949.651	367.679	16.185	ug/L	10.836
|	Co	59	326.344	42.001	0.052	ug/L	5.999
|	Ni r	60	599.363	78.001	0.468	ug/L	10.966
|	Ni	62	81.335	85.668	0.020	ug/L	385.929
|	Cu r	63	6754.383	199.338	2.921	ug/L	10.997
⌞	Cu	65	3104.660	89.668	2.912	ug/L	8.952
⌜	Zn r	66	736.709	205.671	0.916	ug/L	9.947
|	Zn	67	2784.865	2553.783	4.759	ug/L	10.714
|	Zn	68	1102.423	362.345	1.754	ug/L	7.076
|>	Ge	72	77516.735	86530.566		ug/L	
|	As r	75	-219.786	-352.353	0.117	ug/L	112.382
|	As u	75	6137.181	4067.450	3.165	ug/L	15.975
|	Se r	82	5.348	4.722	0.012	ug/L	414.791
|	Se	77	1946.365	1367.597	11.333	ug/L	20.651
⌞	Sr	88	945418.281	183.337	86.962	ug/L	11.530
⌜	Ag r	107	28.667	30.334	0.000	ug/L	81.676
|	Ag	109	17.667	29.667	-0.002	ug/L	20.331
|	Cd r	111	123.171	143.360	-0.006	ug/L	93.910
|	Cd	106	-2003.113	-2210.438	0.016	ug/L	5249.030
|	Cd	108	-2090.839	-2310.098	0.056	ug/L	2077.199
|	Cd	114	16.641	14.760	0.001	ug/L	58.735
|	Cd u	111	5.333	9.667	-0.003	ug/L	30.656
|>	In	115	159138.765	175404.076		ug/L	
|	Sb r	123	61.535	34.164	0.011	ug/L	26.025
⌞	Sb	121	72.668	33.000	0.012	ug/L	30.563

⌈	Sn	118	187.338	195.338	**0.003**	ug/L	309.877
|	Sn r	120	252.007	255.674	**0.004**	ug/L	156.411
|	Ba r	137	48286.787	43.667	**28.526**	ug/L	11.246
|	Ba	135	27654.543	20.000	**28.101**	ug/L	11.533
|>	Tb	159	192351.836	211870.271		ug/L	
|	Tl r	205	526.023	837.721	**-0.023**	ug/L	17.172
|	Tl	203	222.005	337.344	**-0.020**	ug/L	17.950
|	U	238	7086.678	30.667	**0.416**	ug/L	8.984
⌊	Pb	208	3059.936	504.012	**0.199**	ug/L	13.528
⌈	Na	23	8675277.940	21260.554	**2.219**	mg/L	10.440
|	Mg	24	8169963.359	709.040	**3.008**	mg/L	9.954
|	K	39	3529254.737	458015.620	**0.468**	mg/L	9.801
|	Ca	44	2040611.700	10752.953	**11.031**	mg/L	21.180
|	Fe	54	22529.065	21271.210	**0.006**	mg/L	51.596
⌊>	Sc-1	45	267963.415	293669.979		ug/L	
	Kr	83	75.001	70.334		ug/L	
	Cl	35	26445639.202	26810658.688		mg/L	
	C	12	352055.549	304308.241		mg/L	
	Y	89	148285.769	167906.034		ug/L	
⌈	Br	79	1965.271	1887.917	**1.586**	ug/L	52.660
|	Br	81	12164.402	13439.866	**0.755**	ug/L	251.005
⌊>	Ge-1	72	77516.735	86530.566		ug/L	
	Ru	99	0.667	2.667		ug/L	
	Pd	105	1769.555	1950.934		ug/L	
	Ho	165	187050.845	208038.839		ug/L	
	Th	232	382.014	763.380	**-0.020**	ug/L	28.973
⌈	Mo	95	297.675	105.335	**0.118**	ug/L	22.746
|	Mo	97	193.338	68.001	**0.121**	ug/L	22.112
|	Mo r	98	494.689	175.116	**0.117**	ug/L	10.583
|	Rh	103	37.334	2.667		ug/L	
⌊>	In-1	115	159138.765	175404.076		ug/L	
	Ti	47	322.010	183.004		ug/L	
	Li	7	25704.807	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: BB20907-DUP3

Sample Description:
Autosampler Position: 31
Sample Date/Time: Monday, February 13, 2012 11:35:17
Dataset File: C:\Elandata\Dataset\EL120213\BB20907-DUP3.029
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	1.000	2.333	-0.004	ug/L	0.941
|>	Li u	6	338982.057	343542.862		ug/L	
⌞	Li	6	336970.194	341727.648		ug/L	
⌜	Be	9	1.000	2.333	-0.004	ug/L	1.040
|	B	11	2676.827	142.669	7.459	ug/L	6.858
|	Al	27	2805.873	1507.830	0.374	ug/L	3.484
|>	Sc	45	280011.942	293669.979		ug/L	
|	V r	51	-2326.978	-1609.015	-0.130	ug/L	60.559
|	V u	51	109207.866	90091.537	3.878	ug/L	2.954
|	Cr r	52	9560.700	8054.295	0.367	ug/L	7.017
|	Cr	53	37828.502	31139.892	14.893	ug/L	7.478
|	Mn	55	973.405	367.679	0.076	ug/L	6.582
|	Co	59	90.335	42.001	0.009	ug/L	39.402
|	Ni r	60	395.681	78.001	0.272	ug/L	4.728
|	Ni	62	76.668	85.668	-0.030	ug/L	103.498
|	Cu r	63	18260.862	199.338	7.683	ug/L	5.930
⌞	Cu	65	8418.359	89.668	7.679	ug/L	5.066
⌜	Zn r	66	1166.100	205.671	1.560	ug/L	3.769
|	Zn	67	2806.541	2553.783	4.016	ug/L	31.291
|	Zn	68	1674.533	362.345	2.911	ug/L	6.650
|>	Ge	72	80353.979	86530.566		ug/L	
|	As r	75	-387.484	-352.353	-0.070	ug/L	75.410
|	As u	75	7192.100	4067.450	4.178	ug/L	1.707
|	Se r	82	-1.168	4.722	-0.061	ug/L	198.724
|	Se	77	2271.635	1367.597	15.170	ug/L	3.233
⌞	Sr	88	373667.080	183.337	33.134	ug/L	3.621
⌜	Ag r	107	26.667	30.334	-0.000	ug/L	205.195
|	Ag	109	24.334	29.667	-0.001	ug/L	71.562
|	Cd r	111	121.582	143.360	-0.011	ug/L	37.586
|	Cd	106	-1905.723	-2210.438	1.645	ug/L	22.841
|	Cd	108	-1992.428	-2310.098	2.238	ug/L	22.974
|	Cd	114	6.932	14.760	-0.003	ug/L	40.861
|	Cd u	111	6.333	9.667	-0.002	ug/L	97.171
|>	In	115	164700.753	175404.076		ug/L	
|	Sb r	123	53.371	34.164	0.007	ug/L	31.665
⌞	Sb	121	69.001	33.000	0.010	ug/L	21.419

⌈	Sn	118	201.338	195.338	**0.006**	ug/L	39.625
|	Sn r	120	275.341	255.674	**0.008**	ug/L	18.939
|	Ba r	137	80302.720	43.667	**46.673**	ug/L	5.833
|	Ba	135	46536.297	20.000	**46.526**	ug/L	6.816
|>	Tb	159	195491.947	211870.271		ug/L	
|	Tl r	205	366.346	837.721	**-0.039**	ug/L	3.050
|	Tl	203	153.670	337.344	**-0.037**	ug/L	7.101
|	U	238	243.006	30.667	**0.012**	ug/L	15.734
⌊	Pb	208	3129.277	504.012	**0.201**	ug/L	8.955
⌈	Na	23	9318072.642	21260.554	**2.280**	mg/L	4.486
|	Mg	24	3825893.626	709.040	**1.347**	mg/L	4.155
|	K	39	2805011.481	458015.620	**0.341**	mg/L	5.325
|	Ca	44	1069529.948	10752.953	**5.500**	mg/L	4.357
|	Fe	54	20418.132	21271.210	**0.000**	mg/L	385.334
⌊>	Sc-1	45	280011.942	293669.979		ug/L	
	Kr	83	96.002	70.334		ug/L	
	Cl	35	25441497.216	26810658.688		mg/L	
	C	12	359906.094	304308.241		mg/L	
	Y	89	153346.396	167906.034		ug/L	
⌈	Br	79	1322.460	1887.917	**-2.399**	ug/L	7.494
|	Br	81	11307.426	13439.866	**-6.818**	ug/L	38.278
⌊>	Ge-1	72	80353.979	86530.566		ug/L	
	Ru	99	2.667	2.667		ug/L	
	Pd	105	1684.535	1950.934		ug/L	
	Ho	165	193255.540	208038.839		ug/L	
	Th	232	238.006	763.380	**-0.028**	ug/L	4.879
⌈	Mo	95	103.002	105.335	**0.002**	ug/L	234.306
|	Mo	97	69.334	68.001	**0.005**	ug/L	78.984
|	Mo r	98	166.079	175.116	**0.001**	ug/L	578.670
|	Rh	103	18.334	2.667		ug/L	
⌊>	In-1	115	164700.753	175404.076		ug/L	
	Ti	47	370.679	183.004		ug/L	
	Li	7	24807.185	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-41

Sample Description:
Autosampler Position: 30
Sample Date/Time: Monday, February 13, 2012 11:29:58
Dataset File: C:\Elandata\Dataset\EL120213\1202003-41.028
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.333	2.333	-0.003	ug/L	172.363
|>	Li u	6	330204.438	343542.862		ug/L	
⌊	Li	6	328250.069	341727.648		ug/L	
⌈	Be	9	1.333	2.333	-0.003	ug/L	183.601
|	B	11	2719.847	142.669	7.764	ug/L	14.465
|	Al	27	2656.486	1507.830	0.350	ug/L	14.474
|>	Sc	45	273940.684	293669.979		ug/L	
|	V r	51	-359.820	-1609.015	0.192	ug/L	131.086
|	V u	51	109818.111	90091.537	4.391	ug/L	30.089
|	Cr r	52	9431.542	8054.295	0.383	ug/L	17.038
|	Cr	53	37391.820	31139.892	15.625	ug/L	23.727
|	Mn	55	956.736	367.679	0.077	ug/L	11.133
|	Co	59	102.335	42.001	0.011	ug/L	9.650
|	Ni r	60	381.347	78.001	0.268	ug/L	24.040
|	Ni	62	69.668	85.668	-0.062	ug/L	11.585
|	Cu r	63	18372.017	199.338	7.906	ug/L	14.098
⌊	Cu	65	8556.556	89.668	7.984	ug/L	13.201
⌈	Zn r	66	1142.097	205.671	1.553	ug/L	14.957
|	Zn	67	2975.272	2553.783	6.024	ug/L	13.370
|	Zn	68	1728.546	362.345	3.093	ug/L	15.613
|>	Ge	72	79093.407	86530.566		ug/L	
|	As r	75	-133.059	-352.353	0.227	ug/L	106.638
|	As u	75	6859.464	4067.450	3.911	ug/L	14.587
|	Se r	82	-0.113	4.722	-0.049	ug/L	219.149
|	Se	77	2174.320	1367.597	14.251	ug/L	20.901
⌊	Sr	88	381841.309	183.337	34.452	ug/L	14.849
⌈	Ag r	107	30.334	30.334	0.000	ug/L	225.244
|	Ag	109	24.334	29.667	-0.001	ug/L	190.991
|	Cd r	111	121.702	143.360	-0.010	ug/L	29.310
|	Cd	106	-1870.698	-2210.438	1.785	ug/L	25.147
|	Cd	108	-1955.291	-2310.098	2.436	ug/L	24.296
|	Cd	114	11.391	14.760	-0.001	ug/L	122.717
|	Cd u	111	9.000	9.667	0.000	ug/L	7477.543
|>	In	115	162898.792	175404.076		ug/L	
|	Sb r	123	51.619	34.164	0.007	ug/L	2.619
⌊	Sb	121	56.667	33.000	0.007	ug/L	54.415

⌈	Sn	118	196.671	195.338	0.005	ug/L	30.328
|	Sn r	120	261.340	255.674	0.006	ug/L	47.454
|	Ba r	137	80974.668	43.667	47.505	ug/L	13.901
|	Ba	135	47508.680	20.000	47.934	ug/L	12.662
|>	Tb	159	193672.628	211870.271		ug/L	
|	Tl r	205	398.348	837.721	-0.036	ug/L	2.964
|	Tl	203	177.337	337.344	-0.031	ug/L	11.856
|	U	238	244.340	30.667	0.013	ug/L	22.132
⌊	Pb	208	3133.284	504.012	0.203	ug/L	16.268
⌈	Na	23	9383736.633	21260.554	2.348	mg/L	12.410
|	Mg	24	3874197.405	709.040	1.395	mg/L	12.710
|	K	39	2844714.123	458015.620	0.356	mg/L	13.009
|	Ca	44	1087113.892	10752.953	5.719	mg/L	12.984
|	Fe	54	20776.777	21271.210	0.002	mg/L	119.180
⌊>	Sc-1	45	273940.684	293669.979		ug/L	
	Kr	83	89.668	70.334		ug/L	
	Cl	35	26122581.165	26810658.688		mg/L	
	C	12	356450.269	304308.241		mg/L	
	Y	89	153059.326	167906.034		ug/L	
⌈	Br	79	1455.820	1887.917	-1.516	ug/L	69.162
|	Br	81	11624.226	13439.866	-3.890	ug/L	23.549
⌊>	Ge-1	72	79093.407	86530.566		ug/L	
	Ru	99	1.667	2.667		ug/L	
	Pd	105	1653.194	1950.934		ug/L	
	Ho	165	190551.580	208038.839		ug/L	
	Th	232	286.008	763.380	-0.026	ug/L	17.074
⌈	Mo	95	106.335	105.335	0.005	ug/L	35.214
|	Mo	97	67.668	68.001	0.004	ug/L	29.510
|	Mo r	98	171.893	175.116	0.003	ug/L	200.895
|	Rh	103	21.667	2.667		ug/L	
⌊>	In-1	115	162898.792	175404.076		ug/L	
	Ti	47	374.013	183.004		ug/L	
	Li	7	24098.263	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-42

Sample Description:
Autosampler Position: 32
Sample Date/Time: Monday, February 13, 2012 11:40:36
Dataset File: C:\Elandata\Dataset\EL120213\1202003-42.030
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.000	2.333	-0.004	ug/L	77.551
|>	Li u	6	343161.492	343542.862		ug/L	
⌊	Li	6	341219.408	341727.648		ug/L	
⌈	Be	9	1.000	2.333	-0.004	ug/L	82.193
|	B	11	19266.417	142.669	55.650	ug/L	10.292
|	Al	27	2830.550	1507.830	0.374	ug/L	14.115
|>	Sc	45	282657.266	293669.979		ug/L	
|	V r	51	-1896.315	-1609.015	-0.057	ug/L	142.891
|	V u	51	125049.176	90091.537	6.327	ug/L	17.268
|	Cr r	52	10376.433	8054.295	0.508	ug/L	13.969
|	Cr	53	43084.939	31139.892	23.807	ug/L	20.296
|	Mn	55	1978.275	367.679	0.197	ug/L	11.201
|	Co	59	125.669	42.001	0.015	ug/L	19.873
|	Ni r	60	166.670	78.001	0.077	ug/L	9.116
|	Ni	62	122.002	85.668	0.233	ug/L	15.402
|	Cu r	63	1711.209	199.338	0.640	ug/L	12.221
⌊	Cu	65	181.004	89.668	0.086	ug/L	5.860
⌈	Zn r	66	285.675	205.671	0.149	ug/L	16.391
|	Zn	67	2675.826	2553.783	2.699	ug/L	33.237
|	Zn	68	449.684	362.345	0.242	ug/L	33.667
|>	Ge	72	80744.104	86530.566		ug/L	
|	As r	75	30646.455	-352.353	36.077	ug/L	11.595
|	As u	75	39775.519	4067.450	43.858	ug/L	11.705
|	Se r	82	-7.557	4.722	-0.129	ug/L	93.844
|	Se	77	2858.797	1367.597	23.869	ug/L	7.358
⌊	Sr	88	1276.119	183.337	0.098	ug/L	11.351
⌈	Ag r	107	18.667	30.334	-0.002	ug/L	43.697
|	Ag	109	17.667	29.667	-0.002	ug/L	6.692
|	Cd r	111	52.406	143.360	-0.072	ug/L	18.763
|	Cd	106	-1940.581	-2210.438	1.313	ug/L	63.568
|	Cd	108	-1960.354	-2310.098	2.649	ug/L	34.493
|	Cd	114	21.843	14.760	0.003	ug/L	33.512
|	Cd u	111	12.000	9.667	0.003	ug/L	107.554
|>	In	115	164766.354	175404.076		ug/L	
|	Sb r	123	28.704	34.164	-0.001	ug/L	170.017
⌊	Sb	121	35.667	33.000	0.001	ug/L	184.946

⌈	Sn	118	204.672	195.338	**0.005**	ug/L	222.569
|	Sn r	120	270.674	255.674	**0.005**	ug/L	136.734
|	Ba r	137	148.670	43.667	**0.060**	ug/L	18.258
|	Ba	135	88.001	20.000	**0.066**	ug/L	22.005
|>	Tb	159	203849.766	211870.271		ug/L	
|	Tl r	205	322.010	837.721	**-0.045**	ug/L	1.409
|	Tl	203	139.003	337.344	**-0.042**	ug/L	7.314
|	U	238	1516.499	30.667	**0.083**	ug/L	11.117
⌊	Pb	208	495.011	504.012	**0.001**	ug/L	493.472
⌈	Na	23	169842259.501	21260.554	**41.284**	mg/L	11.707
|	Mg	24	4244.221	709.040	**0.001**	mg/L	13.858
|	K	39	742318.405	458015.620	**0.043**	mg/L	12.443
|	Ca	44	16340.853	10752.953	**0.031**	mg/L	14.720
|	Fe	54	22866.561	21271.210	**0.005**	mg/L	66.191
⌊>	Sc-1	45	282657.266	293669.979		ug/L	
	Kr	83	102.335	70.334		ug/L	
	Cl	35	27681245.954	26810658.688		mg/L	
	C	12	382161.844	304308.241		mg/L	
	Y	89	157319.534	167906.034		ug/L	
⌈	Br	79	2242.685	1887.917	**2.678**	ug/L	49.714
|	Br	81	12857.207	13439.866	**1.825**	ug/L	120.741
⌊>	Ge-1	72	80744.104	86530.566		ug/L	
	Ru	99	2.333	2.667		ug/L	
	Pd	105	1725.544	1950.934		ug/L	
	Ho	165	197483.786	208038.839		ug/L	
	Th	232	342.678	763.380	**-0.023**	ug/L	21.753
⌈	Mo	95	947.735	105.335	**0.478**	ug/L	12.650
|	Mo	97	599.363	68.001	**0.474**	ug/L	16.502
|	Mo r	98	1634.266	175.116	**0.494**	ug/L	9.459
|	Rh	103	4.667	2.667		ug/L	
⌊>	In-1	115	164766.354	175404.076		ug/L	
	Ti	47	553.692	183.004		ug/L	
	Li	7	23946.789	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Na 23 Upper, S, EEE	Na 23	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-43

Sample Description:
Autosampler Position: 33
Sample Date/Time: Monday, February 13, 2012 11:45:55
Dataset File: C:\Elandata\Dataset\EL120213\1202003-43.031
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.667	2.333	-0.002	ug/L	326.794
|>	Li u	6	343175.497	343542.862		ug/L	
⌊	Li	6	341145.165	341727.648		ug/L	
⌈	Be	9	1.667	2.333	-0.002	ug/L	419.145
|	B	11	3042.638	142.669	8.693	ug/L	13.906
|	Al	27	4042.440	1507.830	0.732	ug/L	13.168
|>	Sc	45	275224.918	293669.979		ug/L	
|	V r	51	-2422.928	-1609.015	-0.153	ug/L	119.193
|	V u	51	124338.067	90091.537	6.766	ug/L	23.416
|	Cr r	52	10697.546	8054.295	0.625	ug/L	15.554
|	Cr	53	43272.476	31139.892	26.265	ug/L	23.333
|	Mn	55	1494.494	367.679	0.143	ug/L	10.824
|	Co	59	191.338	42.001	0.027	ug/L	1.844
|	Ni r	60	875.059	78.001	0.692	ug/L	11.136
|	Ni	62	146.003	85.668	0.398	ug/L	4.268
|	Cu r	63	82725.410	199.338	35.716	ug/L	11.572
⌊	Cu	65	38393.079	89.668	35.936	ug/L	12.364
⌈	Zn r	66	2305.038	205.671	3.429	ug/L	15.118
|	Zn	67	3104.991	2553.783	7.109	ug/L	15.013
|	Zn	68	2504.101	362.345	4.782	ug/L	11.019
|>	Ge	72	79464.550	86530.566		ug/L	
|	As r	75	-308.438	-352.353	0.014	ug/L	2295.419
|	As u	75	8748.078	4067.450	6.213	ug/L	16.328
|	Se r	82	-2.568	4.722	-0.075	ug/L	451.115
|	Se	77	2775.423	1367.597	23.322	ug/L	19.193
⌊	Sr	88	380464.058	183.337	34.163	ug/L	12.791
⌈	Ag r	107	30.000	30.334	0.000	ug/L	838.967
|	Ag	109	22.667	29.667	-0.001	ug/L	27.766
|	Cd r	111	153.847	143.360	0.017	ug/L	89.775
|	Cd	106	-1918.838	-2210.438	1.562	ug/L	14.694
|	Cd	108	-2017.712	-2310.098	1.976	ug/L	16.059
|	Cd	114	69.551	14.760	0.021	ug/L	25.257
|	Cd u	111	28.667	9.667	0.017	ug/L	7.018
|>	In	115	165098.349	175404.076		ug/L	
|	Sb r	123	66.116	34.164	0.012	ug/L	29.807
⌊	Sb	121	94.002	33.000	0.017	ug/L	31.387

⌈	Sn	118	315.010	195.338	**0.038**	ug/L	26.111
|	Sn r	120	419.016	255.674	**0.038**	ug/L	30.332
|	Ba r	137	80670.876	43.667	**46.267**	ug/L	12.752
|	Ba	135	46994.138	20.000	**46.356**	ug/L	12.769
|>	Tb	159	198412.049	211870.271		ug/L	
|	Tl r	205	306.676	837.721	**-0.046**	ug/L	2.832
|	Tl	203	125.669	337.344	**-0.044**	ug/L	6.347
|	U	238	231.673	30.667	**0.012**	ug/L	27.343
⌊	Pb	208	2361.497	504.012	**0.140**	ug/L	15.224
⌈	Na	23	9903334.975	21260.554	**2.467**	mg/L	11.832
|	Mg	24	3914445.688	709.040	**1.403**	mg/L	11.750
|	K	39	3914715.757	458015.620	**0.511**	mg/L	12.907
|	Ca	44	1094090.569	10752.953	**5.729**	mg/L	11.179
|	Fe	54	21568.082	21271.210	**0.003**	mg/L	107.173
⌊>	Sc-1	45	275224.918	293669.979		ug/L	
	Kr	83	103.668	70.334		ug/L	
	Cl	35	26688383.928	26810658.688		mg/L	
	C	12	386333.617	304308.241		mg/L	
	Y	89	153497.953	167906.034		ug/L	
⌈	Br	79	1429.481	1887.917	**-1.705**	ug/L	48.832
|	Br	81	11529.417	13439.866	**-4.751**	ug/L	48.654
⌊>	Ge-1	72	79464.550	86530.566		ug/L	
	Ru	99	0.667	2.667		ug/L	
	Pd	105	1705.873	1950.934		ug/L	
	Ho	165	195398.392	208038.839		ug/L	
	Th	232	174.670	763.380	**-0.032**	ug/L	6.040
⌈	Mo	95	101.668	105.335	**0.001**	ug/L	120.564
|	Mo	97	83.335	68.001	**0.017**	ug/L	32.612
|	Mo r	98	185.227	175.116	**0.007**	ug/L	34.459
|	Rh	103	21.667	2.667		ug/L	
⌊>	In-1	115	165098.349	175404.076		ug/L	
	Ti	47	363.346	183.004		ug/L	
	Li	7	25034.927	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: BB20907-MS3

Sample Description:
Autosampler Position: 34
Sample Date/Time: Monday, February 13, 2012 11:51:15
Dataset File: C:\Elandata\Dataset\EL120213\BB20907-MS3.032
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	615.698	2.333	2.024	ug/L	9.583
|>	Li u	6	335965.566	343542.862		ug/L	
L	Li	6	332160.149	341727.648		ug/L	
⌈	Be	9	615.698	2.333	2.237	ug/L	9.687
|	B	11	10241.266	142.669	29.673	ug/L	6.696
|	Al	27	282661.818	1507.830	76.901	ug/L	6.257
|>	Sc	45	279824.163	293669.979		ug/L	
|	V r	51	118563.709	-1609.015	19.674	ug/L	7.108
|	V u	51	237307.077	90091.537	25.217	ug/L	9.470
|	Cr r	52	112777.018	8054.295	20.508	ug/L	7.567
|	Cr	53	51879.660	31139.892	40.663	ug/L	15.189
|	Mn	55	172889.045	367.679	21.104	ug/L	6.538
|	Co	59	116637.520	42.001	20.325	ug/L	6.216
|	Ni r	60	23845.912	78.001	20.164	ug/L	6.704
|	Ni	62	3452.478	85.668	20.069	ug/L	7.025
|	Cu r	63	128866.487	199.338	54.723	ug/L	6.134
L	Cu	65	59308.970	89.668	54.597	ug/L	6.694
⌈	Zn r	66	16599.078	205.671	26.080	ug/L	5.109
|	Zn	67	5779.896	2553.783	31.141	ug/L	5.855
|	Zn	68	13650.602	362.345	28.774	ug/L	7.086
|>	Ge	72	80884.513	86530.566		ug/L	
|	As r	75	17545.749	-352.353	20.763	ug/L	6.276
|	As u	75	24889.879	4067.450	25.638	ug/L	7.734
|	Se r	82	1961.574	4.722	21.236	ug/L	6.407
|	Se	77	4000.525	1367.597	40.967	ug/L	10.594
L	Sr	88	603920.458	183.337	53.220	ug/L	6.595
⌈	Ag r	107	9552.380	30.334	2.044	ug/L	9.742
|	Ag	109	9100.820	29.667	2.039	ug/L	8.539
|	Cd r	111	2355.871	143.360	1.964	ug/L	9.542
|	Cd	106	-1671.384	-2210.438	3.810	ug/L	19.342
|	Cd	108	-1747.064	-2310.098	5.192	ug/L	16.868
|	Cd	114	5389.644	14.760	2.068	ug/L	7.373
|	Cd u	111	2319.374	9.667	2.031	ug/L	7.484
|>	In	115	163650.682	175404.076		ug/L	
|	Sb r	123	59204.571	34.164	20.817	ug/L	7.715
L	Sb	121	78693.511	33.000	20.981	ug/L	6.755

⌈	Sn	118	70238.067	195.338	**20.191**	ug/L	6.885
|	Sn r	120	94634.844	255.674	**19.883**	ug/L	6.686
|	Ba r	137	216663.824	43.667	**124.958**	ug/L	5.769
|	Ba	135	126639.598	20.000	**125.612**	ug/L	6.090
|>	Tb	159	196921.044	211870.271		ug/L	
|	Tl r	205	185375.789	837.721	**17.737**	ug/L	2.957
|	Tl	203	75658.216	337.344	**17.495**	ug/L	3.829
|	U	238	344435.156	30.667	**19.815**	ug/L	7.337
⌊	Pb	208	266462.490	504.012	**19.874**	ug/L	7.350
⌈	Na	23	10954400.839	21260.554	**2.683**	mg/L	6.839
|	Mg	24	5044565.778	709.040	**1.777**	mg/L	6.715
|	K	39	8588888.448	458015.620	**1.174**	mg/L	7.324
|	Ca	44	1173495.554	10752.953	**6.043**	mg/L	7.195
|	Fe	54	146702.058	21271.210	**0.246**	mg/L	6.370
⌊>	Sc-1	45	279824.163	293669.979		ug/L	
	Kr	83	122.002	70.334		ug/L	
	Cl	35	25811254.285	26810658.688		mg/L	
	C	12	364944.293	304308.241		mg/L	
	Y	89	153462.715	167906.034		ug/L	
⌈	Br	79	2653.485	1887.917	**4.920**	ug/L	12.460
|	Br	81	12964.713	13439.866	**2.323**	ug/L	29.762
⌊>	Ge-1	72	80884.513	86530.566		ug/L	
	Ru	99	6.333	2.667		ug/L	
	Pd	105	1668.198	1950.934		ug/L	
	Ho	165	191502.015	208038.839		ug/L	
	Th	232	412.349	763.380	**-0.019**	ug/L	9.561
⌈	Mo	95	35618.133	105.335	**20.110**	ug/L	7.686
|	Mo	97	22837.517	68.001	**20.276**	ug/L	8.905
|	Mo r	98	59731.048	175.116	**20.157**	ug/L	7.829
|	Rh	103	43.001	2.667		ug/L	
⌊>	In-1	115	163650.682	175404.076		ug/L	
	Ti	47	8972.665	183.004		ug/L	
	Li	7	46922.520	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ba r 137 Upper, S, EEE	Ba r 137	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-45

Sample Description:
Autosampler Position: 36
Sample Date/Time: Monday, February 13, 2012 12:01:57
Dataset File: C:\Elandata\Dataset\EL120213\1202003-45.034
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.333	2.333	-0.003	ug/L	149.762
|>	Li u	6	339869.188	343542.862		ug/L	
⌊	Li	6	338032.445	341727.648		ug/L	
⌈	Be	9	1.333	2.333	-0.003	ug/L	169.514
|	B	11	487.687	142.669	1.032	ug/L	8.487
|	Al	27	2703.171	1507.830	0.346	ug/L	21.886
|>	Sc	45	280182.582	293669.979		ug/L	
|	V r	51	-2971.796	-1609.015	-0.234	ug/L	19.804
|	V u	51	117923.488	90091.537	5.342	ug/L	38.847
|	Cr r	52	10243.927	8054.295	0.501	ug/L	25.587
|	Cr	53	40766.646	31139.892	20.309	ug/L	37.716
|	Mn	55	461.018	367.679	0.014	ug/L	39.767
|	Co	59	34.000	42.001	-0.001	ug/L	103.988
|	Ni r	60	63.001	78.001	-0.010	ug/L	60.103
|	Ni	62	74.668	85.668	-0.041	ug/L	95.275
|	Cu r	63	231.673	199.338	0.018	ug/L	78.750
⌊	Cu	65	116.335	89.668	0.028	ug/L	28.891
⌈	Zn r	66	223.005	205.671	0.050	ug/L	32.827
|	Zn	67	2711.839	2553.783	3.036	ug/L	40.417
|	Zn	68	392.681	362.345	0.118	ug/L	12.837
|>	Ge	72	80761.013	86530.566		ug/L	
|	As r	75	-256.593	-352.353	0.083	ug/L	145.859
|	As u	75	7869.473	4067.450	4.978	ug/L	27.313
|	Se r	82	-8.345	4.722	-0.140	ug/L	49.994
|	Se	77	2511.898	1367.597	18.674	ug/L	21.177
⌊	Sr	88	201.338	183.337	0.003	ug/L	86.843
⌈	Ag r	107	22.000	30.334	-0.001	ug/L	66.748
|	Ag	109	19.000	29.667	-0.002	ug/L	47.648
|	Cd r	111	131.120	143.360	-0.005	ug/L	175.718
|	Cd	106	-1957.346	-2210.438	1.465	ug/L	55.733
|	Cd	108	-2056.973	-2310.098	1.859	ug/L	55.905
|	Cd	114	7.069	14.760	-0.003	ug/L	89.859
|	Cd u	111	4.000	9.667	-0.005	ug/L	49.866
|>	In	115	167587.514	175404.076		ug/L	
|	Sb r	123	28.122	34.164	-0.002	ug/L	76.814
⌊	Sb	121	28.667	33.000	-0.001	ug/L	120.139

⌈	Sn	118	208.672	195.338	**0.007**	ug/L	76.741
|	Sn r	120	273.674	255.674	**0.007**	ug/L	75.963
|	Ba r	137	48.667	43.667	**0.004**	ug/L	90.105
|	Ba	135	29.334	20.000	**0.010**	ug/L	130.226
|>	Tb	159	199785.805	211870.271		ug/L	
|	Tl r	205	427.016	837.721	**-0.034**	ug/L	8.588
|	Tl	203	177.004	337.344	**-0.032**	ug/L	3.403
|	U	238	28.667	30.667	**-0.000**	ug/L	1695.697
⌊	Pb	208	325.673	504.012	**-0.011**	ug/L	4.740
⌈	Na	23	73605.233	21260.554	**0.013**	mg/L	15.772
|	Mg	24	1038.081	709.040	**0.000**	mg/L	30.371
|	K	39	444533.036	458015.620	**0.001**	mg/L	74.151
|	Ca	44	9601.752	10752.953	**-0.003**	mg/L	22.080
|	Fe	54	21375.082	21271.210	**0.002**	mg/L	238.632
⌊>	Sc-1	45	280182.582	293669.979		ug/L	
	Kr	83	116.335	70.334		ug/L	
	Cl	35	26688835.126	26810658.688		mg/L	
	C	12	369632.837	304308.241		mg/L	
	Y	89	157896.309	167906.034		ug/L	
⌈	Br	79	964.737	1887.917	**-4.412**	ug/L	12.082
|	Br	81	11618.885	13439.866	**-5.333**	ug/L	21.071
⌊>	Ge-1	72	80761.013	86530.566		ug/L	
	Ru	99	0.333	2.667		ug/L	
	Pd	105	1737.880	1950.934		ug/L	
	Ho	165	197142.701	208038.839		ug/L	
	Th	232	109.669	763.380	**-0.035**	ug/L	5.749
⌈	Mo	95	96.002	105.335	**-0.003**	ug/L	161.272
|	Mo	97	67.001	68.001	**0.002**	ug/L	206.840
|	Mo r	98	143.485	175.116	**-0.008**	ug/L	22.349
|	Rh	103	4.333	2.667		ug/L	
⌊>	In-1	115	167587.514	175404.076		ug/L	
	Ti	47	165.670	183.004		ug/L	
	Li	7	22647.873	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-44

Sample Description:
Autosampler Position: 35
Sample Date/Time: Monday, February 13, 2012 11:56:36
Dataset File: C:\Elandata\Dataset\EL120213\1202003-44.033
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	0.333	2.333	-0.006	ug/L	27.539
|>	Li u	6	355730.241	343542.862		ug/L	
⌊	Li	6	353850.877	341727.648		ug/L	
⌈	Be	9	0.333	2.333	-0.007	ug/L	29.802
|	B	11	205.005	142.669	0.193	ug/L	38.482
|	Al	27	3070.315	1507.830	0.434	ug/L	26.822
|>	Sc	45	284916.558	293669.979		ug/L	
|	V r	51	-1622.419	-1609.015	-0.018	ug/L	2495.677
|	V u	51	116801.629	90091.537	4.842	ug/L	38.704
|	Cr r	52	10213.220	8054.295	0.462	ug/L	30.669
|	Cr	53	40739.411	31139.892	19.077	ug/L	40.554
|	Mn	55	547.692	367.679	0.023	ug/L	31.227
|	Co	59	40.334	42.001	-0.000	ug/L	3872.790
|	Ni r	60	72.001	78.001	-0.003	ug/L	88.854
|	Ni	62	78.335	85.668	-0.027	ug/L	140.392
|	Cu r	63	243.006	199.338	0.021	ug/L	4.445
⌊	Cu	65	127.002	89.668	0.036	ug/L	42.245
⌈	Zn r	66	231.006	205.671	0.053	ug/L	42.160
|	Zn	67	2708.504	2553.783	2.379	ug/L	33.781
|	Zn	68	378.346	362.345	0.067	ug/L	39.371
|>	Ge	72	82810.584	86530.566		ug/L	
|	As r	75	-183.487	-352.353	0.178	ug/L	192.896
|	As u	75	7802.389	4067.450	4.652	ug/L	21.485
|	Se r	82	-12.638	4.722	-0.182	ug/L	41.609
|	Se	77	2474.587	1367.597	17.169	ug/L	23.198
⌊	Sr	88	470.686	183.337	0.025	ug/L	10.720
⌈	Ag r	107	20.334	30.334	-0.002	ug/L	85.782
|	Ag	109	17.667	29.667	-0.002	ug/L	28.640
|	Cd r	111	136.716	143.360	-0.003	ug/L	225.145
|	Cd	106	-1992.371	-2210.438	1.613	ug/L	50.567
|	Cd	108	-2094.777	-2310.098	2.054	ug/L	48.116
|	Cd	114	8.933	14.760	-0.002	ug/L	50.090
|	Cd u	111	6.333	9.667	-0.003	ug/L	77.256
|>	In	115	171978.082	175404.076		ug/L	
|	Sb r	123	25.831	34.164	-0.003	ug/L	65.866
⌊	Sb	121	28.000	33.000	-0.001	ug/L	32.277

⌈	Sn	118	251.007	195.338	0.017	ug/L	68.635
|	Sn r	120	340.344	255.674	0.018	ug/L	38.445
|	Ba r	137	54.667	43.667	0.007	ug/L	24.830
|	Ba	135	30.667	20.000	0.011	ug/L	70.817
|>	Tb	159	206137.629	211870.271		ug/L	
|	Tl r	205	1105.763	837.721	0.027	ug/L	131.139
|	Tl	203	474.687	337.344	0.033	ug/L	118.432
|	U	238	86.668	30.667	0.003	ug/L	64.595
⌊	Pb	208	413.008	504.012	-0.006	ug/L	32.063
⌈	Na	23	60344.307	21260.554	0.010	mg/L	16.269
|	Mg	24	1381.138	709.040	0.000	mg/L	22.765
|	K	39	427870.154	458015.620	-0.002	mg/L	61.632
|	Ca	44	10925.529	10752.953	0.003	mg/L	60.651
|	Fe	54	21469.137	21271.210	0.002	mg/L	275.210
⌊>	Sc-1	45	284916.558	293669.979		ug/L	
	Kr	83	111.669	70.334		ug/L	
	Cl	35	26481283.873	26810658.688		mg/L	
	C	12	369828.163	304308.241		mg/L	
	Y	89	160528.467	167906.034		ug/L	
⌈	Br	79	952.402	1887.917	-4.612	ug/L	13.395
|	Br	81	11376.857	13439.866	-8.368	ug/L	19.813
⌊>	Ge-1	72	82810.584	86530.566		ug/L	
	Ru	99	0.667	2.667		ug/L	
	Pd	105	1769.221	1950.934		ug/L	
	Ho	165	201372.950	208038.839		ug/L	
	Th	232	133.336	763.380	-0.034	ug/L	6.587
⌈	Mo	95	127.336	105.335	0.013	ug/L	15.580
|	Mo	97	77.001	68.001	0.009	ug/L	45.180
|	Mo r	98	193.597	175.116	0.007	ug/L	212.694
|	Rh	103	8.000	2.667		ug/L	
⌊>	In-1	115	171978.082	175404.076		ug/L	
	Ti	47	181.337	183.004		ug/L	
	Li	7	23173.419	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Monday, February 13, 2012 12:07:12
Dataset File: C:\Elandata\Dataset\EL120213\QC Std 2 035
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	15438.632	2.333	52.316	ug/L	2.015
|>	Li u	6	327133.433	343542.862		ug/L	
⌊	Li	6	325403.184	341727.648		ug/L	
⌈	Be	9	15438.632	2.333	55.972	ug/L	1.732
|	B	11	19532.305	142.669	56.629	ug/L	1.934
|	Al	27	194975.736	1507.830	52.630	ug/L	1.791
|>	Sc	45	281383.281	293669.979		ug/L	
|	V r	51	314070.464	-1609.015	51.417	ug/L	1.856
|	V u	51	409494.169	90091.537	53.506	ug/L	2.120
|	Cr r	52	276710.352	8054.295	52.199	ug/L	2.541
|	Cr	53	62627.294	31139.892	59.717	ug/L	6.338
|	Mn	55	428120.618	367.679	52.034	ug/L	2.079
|	Co	59	293825.702	42.001	50.927	ug/L	1.872
|	Ni r	60	60691.148	78.001	51.132	ug/L	2.121
|	Ni	62	8676.645	85.668	50.880	ug/L	0.805
|	Cu r	63	121831.477	199.338	51.441	ug/L	0.895
⌊	Cu	65	56264.278	89.668	51.496	ug/L	0.779
⌈	Zn r	66	34639.176	205.671	55.597	ug/L	0.487
|	Zn	67	8601.227	2553.783	58.248	ug/L	1.536
|	Zn	68	25317.855	362.345	54.830	ug/L	1.620
|>	Ge	72	79646.369	86530.566		ug/L	
|	As r	75	44813.326	-352.353	53.239	ug/L	2.210
|	As u	75	47729.093	4067.450	54.295	ug/L	1.278
|	Se r	82	5147.510	4.722	56.668	ug/L	2.855
|	Se	77	5417.469	1367.597	63.558	ug/L	4.495
⌊	Sr	88	578259.234	183.337	51.734	ug/L	0.185
⌈	Ag r	107	237652.582	30.334	51.940	ug/L	0.745
|	Ag	109	225952.760	29.667	51.736	ug/L	0.081
|	Cd r	111	58452.946	143.360	52.516	ug/L	0.943
|	Cd	106	3179.664	-2210.438	51.698	ug/L	4.095
|	Cd	108	1997.698	-2310.098	53.394	ug/L	1.661
|	Cd	114	134080.571	14.760	52.559	ug/L	0.896
|	Cd u	111	58790.409	9.667	52.655	ug/L	0.776
|>	In	115	160451.576	175404.076		ug/L	
|	Sb r	123	143948.929	34.164	51.593	ug/L	1.397
⌊	Sb	121	190302.140	33.000	51.723	ug/L	1.695

⌈	Sn	118	173454.644	195.338	**50.593**	ug/L	1.637
|	Sn r	120	236128.443	255.674	**50.335**	ug/L	1.155
|	Ba r	137	87259.030	43.667	**50.981**	ug/L	2.165
|	Ba	135	50823.553	20.000	**51.065**	ug/L	2.090
|>	Tb	159	194337.796	211870.271		ug/L	
|	Tl r	205	497128.945	837.721	**48.315**	ug/L	3.103
|	Tl	203	205781.317	337.344	**48.323**	ug/L	2.556
|	U	238	858532.413	30.667	**50.037**	ug/L	1.077
⌊	Pb	208	669828.025	504.012	**50.664**	ug/L	1.213
⌈	Na	23	22654453.933	21260.554	**5.522**	mg/L	0.892
|	Mg	24	15826473.679	709.040	**5.545**	mg/L	1.484
|	K	39	38317361.528	458015.620	**5.423**	mg/L	1.380
|	Ca	44	907852.274	10752.953	**4.636**	mg/L	1.645
|	Fe	54	2804160.774	21271.210	**5.395**	mg/L	1.495
⌊>	Sc-1	45	281383.281	293669.979		ug/L	
	Kr	83	116.002	70.334		ug/L	
	Cl	35	26582803.508	26810658.688		mg/L	
	C	12	354314.667	304308.241		mg/L	
	Y	89	152794.011	167906.034		ug/L	
⌈	Br	79	10938.882	1887.917	**51.717**	ug/L	0.929
|	Br	81	21677.076	13439.866	**54.552**	ug/L	5.800
⌊>	Ge-1	72	79646.369	86530.566		ug/L	
	Ru	99	15.667	2.667		ug/L	
	Pd	105	1852.242	1950.934		ug/L	
	Ho	165	188519.037	208038.839		ug/L	
	Th	232	807267.233	763.380	**43.347**	ug/L	1.026
⌈	Mo	95	88865.959	105.335	**51.212**	ug/L	0.807
|	Mo	97	56794.131	68.001	**51.469**	ug/L	2.552
|	Mo r	98	148315.464	175.116	**51.084**	ug/L	0.752
|	Rh	103	46.001	2.667		ug/L	
⌊>	In-1	115	160451.576	175404.076		ug/L	
	Ti	47	216.005	183.004		ug/L	
	Li	7	21334.762	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
QC Std 2	Be	9	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Cr	53	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Zn r	66	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Zn	67	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Se r	82	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Na	23	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Mg	24	CCV (CLC) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 4

Sample Description:
Autosampler Position: 1
Sample Date/Time: Monday, February 13, 2012 12:12:24
Dataset File: C:\Elandata\Dataset\EL120213\QC Std 4.036
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.667	2.333	-0.002	ug/L	92.161
|>	Li u	6	337383.030	343542.862		ug/L	
L	Li	6	335580.260	341727.648		ug/L	
⌈	Be	9	1.667	2.333	-0.002	ug/L	101.401
|	B	11	229.673	142.669	0.263	ug/L	83.406
|	Al	27	1486.825	1507.830	0.006	ug/L	57.536
|>	Sc	45	285040.118	293669.979		ug/L	
|	V r	51	-877.803	-1609.015	0.110	ug/L	170.784
|	V u	51	86659.362	90091.537	-0.129	ug/L	324.326
|	Cr r	52	7595.160	8054.295	-0.043	ug/L	93.369
|	Cr	53	29761.812	31139.892	-0.839	ug/L	164.406
|	Mn	55	356.012	367.679	-0.000	ug/L	2172.647
|	Co	59	34.000	42.001	-0.001	ug/L	61.967
|	Ni r	60	59.001	78.001	-0.014	ug/L	37.337
|	Ni	62	78.335	85.668	-0.028	ug/L	243.044
|	Cu r	63	176.670	199.338	-0.007	ug/L	30.615
L	Cu	65	93.668	89.668	0.006	ug/L	229.937
⌈	Zn r	66	194.338	205.671	-0.001	ug/L	4023.978
|	Zn	67	2477.091	2553.783	0.522	ug/L	192.212
|	Zn	68	365.346	362.345	0.047	ug/L	8.767
|>	Ge	72	81978.332	86530.566		ug/L	
|	As r	75	-87.998	-352.353	0.281	ug/L	72.446
|	As u	75	4366.287	4067.450	0.614	ug/L	60.136
|	Se r	82	22.780	4.722	0.196	ug/L	73.997
|	Se	77	1426.367	1367.597	1.939	ug/L	39.898
L	Sr	88	154.336	183.337	-0.002	ug/L	9.845
⌈	Ag r	107	39.667	30.334	0.002	ug/L	138.729
|	Ag	109	39.334	29.667	0.002	ug/L	166.019
|	Cd r	111	143.949	143.360	0.004	ug/L	179.366
|	Cd	106	-2039.092	-2210.438	1.026	ug/L	77.761
|	Cd	108	-2148.694	-2310.098	1.185	ug/L	83.636
|	Cd	114	16.851	14.760	0.001	ug/L	208.111
|	Cd u	111	7.000	9.667	-0.002	ug/L	162.192
|>	In	115	170541.935	175404.076		ug/L	
|	Sb r	123	37.704	34.164	0.002	ug/L	237.080
L	Sb	121	44.334	33.000	0.003	ug/L	52.264

⌈	Sn	118	291.342	195.338	**0.029**	ug/L	60.069
|	Sn r	120	400.348	255.674	**0.031**	ug/L	43.214
|	Ba r	137	41.001	43.667	**-0.001**	ug/L	1000.448
|	Ba	135	23.334	20.000	**0.004**	ug/L	204.879
|>	Tb	159	204124.849	211870.271		ug/L	
|	Tl r	205	2285.748	837.721	**0.137**	ug/L	73.119
|	Tl	203	934.075	337.344	**0.136**	ug/L	71.788
|	U	238	127.002	30.667	**0.005**	ug/L	62.523
⌊	Pb	208	373.674	504.012	**-0.008**	ug/L	31.645
⌈	Na	23	25214.518	21260.554	**0.001**	mg/L	15.774
|	Mg	24	879.727	709.040	**0.000**	mg/L	77.621
|	K	39	438188.583	458015.620	**-0.001**	mg/L	144.653
|	Ca	44	8964.979	10752.953	**-0.008**	mg/L	13.933
|	Fe	54	19850.958	21271.210	**-0.002**	mg/L	71.144
⌊>	Sc-1	45	285040.118	293669.979		ug/L	
	Kr	83	102.002	70.334		ug/L	
	Cl	35	25974813.697	26810658.688		mg/L	
	C	12	317610.451	304308.241		mg/L	
	Y	89	159549.227	167906.034		ug/L	
⌈	Br	79	1768.554	1887.917	**-0.110**	ug/L	194.516
|	Br	81	12221.490	13439.866	**-2.912**	ug/L	19.535
⌊>	Ge-1	72	81978.332	86530.566		ug/L	
	Ru	99	1.000	2.667		ug/L	
	Pd	105	1815.566	1950.934		ug/L	
	Ho	165	198363.564	208038.839		ug/L	
	Th	232	4407.157	763.380	**0.196**	ug/L	56.669
⌈	Mo	95	155.003	105.335	**0.029**	ug/L	86.358
|	Mo	97	105.335	68.001	**0.034**	ug/L	58.521
|	Mo r	98	286.787	175.116	**0.038**	ug/L	66.155
|	Rh	103	5.333	2.667		ug/L	
⌊>	In-1	115	170541.935	175404.076		ug/L	
	Ti	47	157.337	183.004		ug/L	
	Li	7	22228.969	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
QC Std 4	Cr	53	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Zn	67	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	As u	75	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cd	106	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cd	108	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br	81	IBL (LCB) is out of limits (+/- 0.400ug/L)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-46

Sample Description:
Autosampler Position: 37
Sample Date/Time: Monday, February 13, 2012 12:17:43
Dataset File: C:\Elandata\Dataset\EL120213\1202003-46.037
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.667	2.333	-0.002	ug/L	338.285
|>	Li u	6	331838.701	343542.862		ug/L	
⌊	Li	6	329730.416	341727.648		ug/L	
⌈	Be	9	1.667	2.333	-0.002	ug/L	393.367
|	B	11	2101.310	142.669	5.899	ug/L	13.028
|	Al	27	3495.835	1507.830	0.583	ug/L	19.855
|>	Sc	45	274417.637	293669.979		ug/L	
|	V r	51	-3568.915	-1609.015	-0.345	ug/L	18.982
|	V u	51	98958.344	90091.537	2.521	ug/L	51.715
|	Cr r	52	8459.400	8054.295	0.186	ug/L	11.449
|	Cr	53	34451.910	31139.892	10.050	ug/L	55.215
|	Mn	55	127838.905	367.679	15.930	ug/L	16.882
|	Co	59	355.012	42.001	0.056	ug/L	15.794
|	Ni r	60	646.034	78.001	0.497	ug/L	25.366
|	Ni	62	91.668	85.668	0.072	ug/L	181.827
|	Cu r	63	1349.133	199.338	0.505	ug/L	16.560
⌊	Cu	65	632.033	89.668	0.516	ug/L	15.824
⌈	Zn r	66	477.353	205.671	0.481	ug/L	13.240
|	Zn	67	2868.564	2553.783	5.384	ug/L	29.019
|	Zn	68	961.403	362.345	1.423	ug/L	16.815
|>	Ge	72	78078.141	86530.566		ug/L	
|	As r	75	47.644	-352.353	0.435	ug/L	71.749
|	As u	75	6021.758	4067.450	2.971	ug/L	24.363
|	Se r	82	0.930	4.722	-0.034	ug/L	793.615
|	Se	77	1862.978	1367.597	9.846	ug/L	31.997
⌊	Sr	88	944738.846	183.337	86.404	ug/L	14.840
⌈	Ag r	107	28.667	30.334	0.000	ug/L	350.744
|	Ag	109	22.000	29.667	-0.001	ug/L	92.173
|	Cd r	111	130.014	143.360	-0.000	ug/L	4043.195
|	Cd	106	-1942.420	-2210.438	0.632	ug/L	186.276
|	Cd	108	-2033.454	-2310.098	0.821	ug/L	166.242
|	Cd	114	17.925	14.760	0.002	ug/L	65.587
|	Cd u	111	10.333	9.667	0.001	ug/L	158.831
|>	In	115	159259.573	175404.076		ug/L	
|	Sb r	123	62.238	34.164	0.011	ug/L	32.130
⌊	Sb	121	75.668	33.000	0.013	ug/L	23.480

⌈	Sn	118	251.340	195.338	**0.022**	ug/L	21.851
|	Sn r	120	334.011	255.674	**0.023**	ug/L	22.610
|	Ba r	137	47644.025	43.667	**28.351**	ug/L	14.693
|	Ba	135	27495.285	20.000	**28.142**	ug/L	15.015
|>	Tb	159	190888.543	211870.271		ug/L	
|	Tl r	205	544.025	837.721	**-0.021**	ug/L	15.072
|	Tl	203	216.339	337.344	**-0.021**	ug/L	19.781
|	U	238	7160.777	30.667	**0.424**	ug/L	14.781
⌊	Pb	208	1147.046	504.012	**0.053**	ug/L	22.088
⌈	Na	23	8923763.690	21260.554	**2.231**	mg/L	16.430
|	Mg	24	8435593.993	709.040	**3.036**	mg/L	16.640
|	K	39	3647030.815	458015.620	**0.473**	mg/L	16.033
|	Ca	44	2091243.985	10752.953	**11.058**	mg/L	29.070
|	Fe	54	22500.197	21271.210	**0.005**	mg/L	93.180
⌊>	Sc-1	45	274417.637	293669.979		ug/L	
	Kr	83	123.002	70.334		ug/L	
	Cl	35	27563708.777	26810658.688		mg/L	
	C	12	353092.513	304308.241		mg/L	
	Y	89	149485.883	167906.034		ug/L	
⌈	Br	79	2069.302	1887.917	**2.120**	ug/L	80.308
|	Br	81	12186.101	13439.866	**0.379**	ug/L	539.832
⌊>	Ge-1	72	78078.141	86530.566		ug/L	
	Ru	99	2.000	2.667		ug/L	
	Pd	105	1718.876	1950.934		ug/L	
	Ho	165	186422.742	208038.839		ug/L	
	Th	232	1444.508	763.380	**0.037**	ug/L	109.896
⌈	Mo	95	328.010	105.335	**0.135**	ug/L	15.944
|	Mo	97	206.672	68.001	**0.133**	ug/L	24.864
|	Mo r	98	501.874	175.116	**0.119**	ug/L	22.640
|	Rh	103	37.000	2.667		ug/L	
⌊>	In-1	115	159259.573	175404.076		ug/L	
	Ti	47	325.344	183.004		ug/L	
	Li	7	25996.115	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-47

Sample Description:
Autosampler Position: 38
Sample Date/Time: Monday, February 13, 2012 12:23:05
Dataset File: C:\Elandata\Dataset\EL120213\1202003-47.038
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	2.667	2.333	0.002	ug/L	245.305
|>	Li u	6	322464.559	343542.862		ug/L	
⌞	Li	6	315837.981	341727.648		ug/L	
⌜	Be	9	2.667	2.333	0.002	ug/L	233.051
|	B	11	20916.709	142.669	62.521	ug/L	7.209
|	Al	27	3153.680	1507.830	0.491	ug/L	12.820
|>	Sc	45	273104.140	293669.979		ug/L	
|	V r	51	-1223.504	-1609.015	0.046	ug/L	453.805
|	V u	51	89698.093	90091.537	1.008	ug/L	75.924
|	Cr r	52	7839.073	8054.295	0.070	ug/L	74.204
|	Cr	53	31259.792	31139.892	4.318	ug/L	64.612
|	Mn	55	3839755.015	367.679	481.159	ug/L	7.531
|	Co	59	177.337	42.001	0.025	ug/L	12.390
|	Ni r	60	500.688	78.001	0.372	ug/L	10.300
|	Ni	62	95.002	85.668	0.094	ug/L	100.753
|	Cu r	63	1042.081	199.338	0.373	ug/L	5.965
⌞	Cu	65	163.003	89.668	0.075	ug/L	19.376
⌜	Zn r	66	274.008	205.671	0.153	ug/L	23.287
|	Zn	67	3223.708	2553.783	9.245	ug/L	9.201
|	Zn	68	2951.932	362.345	5.984	ug/L	10.419
|>	Ge	72	76832.293	86530.566		ug/L	
|	As r	75	30497.478	-352.353	37.671	ug/L	9.759
|	As u	75	35649.223	4067.450	40.996	ug/L	10.224
|	Se r	82	-7.794	4.722	-0.138	ug/L	51.620
|	Se	77	1584.857	1367.597	5.875	ug/L	18.364
⌞	Sr	88	4698341.868	183.337	435.893	ug/L	8.275
⌜	Ag r	107	26.667	30.334	-0.000	ug/L	15315.021
|	Ag	109	16.667	29.667	-0.002	ug/L	20.105
|	Cd r	111	98.312	143.360	-0.026	ug/L	48.138
|	Cd	106	-2143.404	-2210.438	-2.029	ug/L	10.660
|	Cd	108	-2204.488	-2310.098	-2.294	ug/L	19.844
|	Cd	114	15.096	14.760	0.001	ug/L	203.024
|	Cd u	111	8.667	9.667	0.000	ug/L	1834.519
|>	In	115	154486.991	175404.076		ug/L	
|	Sb r	123	39.819	34.164	0.004	ug/L	107.957
⌞	Sb	121	34.334	33.000	0.001	ug/L	110.349

⌈	Sn	118	207.672	195.338	**0.010**	ug/L	16.603
|	Sn r	120	281.008	255.674	**0.012**	ug/L	51.164
|	Ba r	137	333890.624	43.667	**200.388**	ug/L	9.237
|	Ba	135	192607.336	20.000	**198.792**	ug/L	9.235
|>	Tb	159	189218.356	211870.271		ug/L	
|	Tl r	205	351.012	837.721	**-0.040**	ug/L	3.706
|	Tl	203	145.336	337.344	**-0.038**	ug/L	2.954
|	U	238	1298.790	30.667	**0.076**	ug/L	12.358
⌊	Pb	208	316.672	504.012	**-0.010**	ug/L	26.037
⌈	Na	23	98250906.942	21260.554	**24.689**	mg/L	6.611
|	Mg	24	4776621.058	709.040	**1.724**	mg/L	6.341
|	K	39	6140221.914	458015.620	**0.843**	mg/L	7.814
|	Ca	44	1584359.034	10752.953	**8.378**	mg/L	9.179
|	Fe	54	597693.262	21271.210	**1.154**	mg/L	9.807
⌊>	Sc-1	45	273104.140	293669.979		ug/L	
	Kr	83	129.669	70.334		ug/L	
	Cl	35	26938347.828	26810658.688		mg/L	
	C	12	378422.009	304308.241		mg/L	
	Y	89	148133.362	167906.034		ug/L	
⌈	Br	79	2056.629	1887.917	**2.219**	ug/L	22.950
|	Br	81	12450.530	13439.866	**3.158**	ug/L	79.010
⌊>	Ge-1	72	76832.293	86530.566		ug/L	
	Ru	99	3.000	2.667		ug/L	
	Pd	105	1897.253	1950.934		ug/L	
	Ho	165	184098.231	208038.839		ug/L	
	Th	232	1419.819	763.380	**0.035**	ug/L	63.446
⌈	Mo	95	900.062	105.335	**0.484**	ug/L	8.629
|	Mo	97	562.026	68.001	**0.473**	ug/L	6.982
|	Mo r	98	1493.718	175.116	**0.480**	ug/L	10.325
|	Rh	103	114.669	2.667		ug/L	
⌊>	In-1	115	154486.991	175404.076		ug/L	
	Ti	47	544.691	183.004		ug/L	
	Li	7	81708.731	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	Sample greater than CLM3
Ba r 137 Upper, S, EEE	Ba r	137	Sample greater than CLM3
Na 23 Upper, S, EEE	Na	23	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Monday, February 13, 2012 12:28:20
Dataset File: C:\Elandata\Dataset\EL120213\QC Std 2.039
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	15214.186	2.333	**51.459**	ug/L	1.540
|>	Li u	6	327686.171	343542.862		ug/L	
L	Li	6	325945.892	341727.648		ug/L	
⌈	Be	9	15214.186	2.333	**54.591**	ug/L	0.743
|	B	11	18686.526	142.669	**53.609**	ug/L	0.664
|	Al	27	190284.707	1507.830	**50.827**	ug/L	0.850
|>	Sc	45	284256.777	293669.979		ug/L	
|	V r	51	305126.751	-1609.015	**49.450**	ug/L	0.860
|	V u	51	394945.945	90091.537	**50.428**	ug/L	1.185
|	Cr r	52	267630.726	8054.295	**49.910**	ug/L	1.530
|	Cr	53	59584.221	31139.892	**53.048**	ug/L	2.794
|	Mn	55	417438.179	367.679	**50.221**	ug/L	2.201
|	Co	59	288244.396	42.001	**49.456**	ug/L	1.212
|	Ni r	60	59336.232	78.001	**49.486**	ug/L	1.522
|	Ni	62	8504.117	85.668	**49.358**	ug/L	2.000
|	Cu r	63	118568.024	199.338	**49.554**	ug/L	0.596
L	Cu	65	54730.897	89.668	**49.590**	ug/L	1.692
⌈	Zn r	66	33467.320	205.671	**53.914**	ug/L	1.049
|	Zn	67	8416.354	2553.783	**56.826**	ug/L	2.020
|	Zn	68	24915.200	362.345	**54.153**	ug/L	0.457
|>	Ge	72	79343.563	86530.566		ug/L	
|	As r	75	43694.635	-352.353	**52.111**	ug/L	0.951
|	As u	75	46009.315	4067.450	**52.385**	ug/L	1.064
|	Se r	82	4982.930	4.722	**55.053**	ug/L	2.123
|	Se	77	5062.098	1367.597	**58.402**	ug/L	1.674
L	Sr	88	559540.567	183.337	**50.250**	ug/L	0.808
⌈	Ag r	107	230341.851	30.334	**50.367**	ug/L	1.523
|	Ag	109	218475.643	29.667	**50.053**	ug/L	1.176
|	Cd r	111	56757.704	143.360	**51.014**	ug/L	1.069
|	Cd	106	3118.134	-2210.438	**51.082**	ug/L	1.236
|	Cd	108	1754.009	-2310.098	**50.231**	ug/L	2.540
|	Cd	114	130611.932	14.760	**51.224**	ug/L	0.386
|	Cd u	111	56871.386	9.667	**50.961**	ug/L	1.175
|>	In	115	160353.931	175404.076		ug/L	
|	Sb r	123	139488.770	34.164	**50.017**	ug/L	1.406
L	Sb	121	184377.370	33.000	**50.134**	ug/L	0.855

⌈	Sn	118	169759.855	195.338	**50.403**	ug/L	1.516
|	Sn r	120	232038.767	255.674	**50.346**	ug/L	0.109
|	Ba r	137	84481.906	43.667	**50.233**	ug/L	0.664
|	Ba	135	49413.716	20.000	**50.531**	ug/L	1.182
|>	Tb	159	190907.556	211870.271		ug/L	
|	Tl r	205	472853.355	837.721	**46.773**	ug/L	3.166
|	Tl	203	196259.295	337.344	**46.917**	ug/L	3.008
|	U	238	821700.049	30.667	**48.744**	ug/L	0.756
⌊	Pb	208	642542.726	504.012	**49.465**	ug/L	0.512
⌈	Na	23	22261952.009	21260.554	**5.370**	mg/L	1.859
|	Mg	24	15570300.132	709.040	**5.399**	mg/L	1.280
|	K	39	38084753.873	458015.620	**5.334**	mg/L	0.593
|	Ca	44	891456.967	10752.953	**4.505**	mg/L	0.097
|	Fe	54	2756313.475	21271.210	**5.248**	mg/L	1.656
⌊>	Sc-1	45	284256.777	293669.979		ug/L	
	Kr	83	132.669	70.334		ug/L	
	Cl	35	26485119.060	26810658.688		mg/L	
	C	12	348677.638	304308.241		mg/L	
	Y	89	152197.763	167906.034		ug/L	
⌈	Br	79	10559.682	1887.917	**49.811**	ug/L	0.729
|	Br	81	20877.170	13439.866	**50.352**	ug/L	2.567
⌊>	Ge-1	72	79343.563	86530.566		ug/L	
	Ru	99	16.000	2.667		ug/L	
	Pd	105	1824.568	1950.934		ug/L	
	Ho	165	185502.973	208038.839		ug/L	
	Th	232	778157.921	763.380	**41.782**	ug/L	1.095
⌈	Mo	95	85723.890	105.335	**49.424**	ug/L	0.566
|	Mo	97	55355.036	68.001	**50.177**	ug/L	1.097
|	Mo r	98	145297.086	175.116	**50.071**	ug/L	0.989
|	Rh	103	41.334	2.667		ug/L	
⌊>	In-1	115	160353.931	175404.076		ug/L	
	Ti	47	209.005	183.004		ug/L	
	Li	7	21458.438	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
QC Std 2	Zn	67	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Se r	82	CCV (CLC) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 4

Sample Description:
Autosampler Position: 1
Sample Date/Time: Monday, February 13, 2012 12:33:33
Dataset File: C:\Elandata\Dataset\EL120213\QC Std 4.040
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	2.333	2.333	0.000	ug/L	1779.627
|>	Li u	6	331468.949	343542.862		ug/L	
⌊	Li	6	329701.885	341727.648		ug/L	
⌈	Be	9	2.333	2.333	0.000	ug/L	1569.066
|	B	11	276.008	142.669	0.406	ug/L	36.340
|	Al	27	1396.141	1507.830	-0.014	ug/L	30.220
|>	Sc	45	281609.887	293669.979		ug/L	
|	V r	51	-911.089	-1609.015	0.103	ug/L	142.262
|	V u	51	87415.806	90091.537	0.169	ug/L	277.614
|	Cr r	52	7657.221	8054.295	-0.013	ug/L	323.678
|	Cr	53	29982.635	31139.892	0.220	ug/L	489.790
|	Mn	55	401.348	367.679	0.006	ug/L	42.046
|	Co	59	33.667	42.001	-0.001	ug/L	103.974
|	Ni r	60	59.001	78.001	-0.013	ug/L	26.825
|	Ni	62	74.334	85.668	-0.046	ug/L	60.988
|	Cu r	63	180.671	199.338	-0.004	ug/L	203.035
⌊	Cu	65	105.335	89.668	0.018	ug/L	75.120
⌈	Zn r	66	168.004	205.671	-0.037	ug/L	103.198
|	Zn	67	2515.437	2553.783	1.347	ug/L	59.501
|	Zn	68	341.344	362.345	0.011	ug/L	497.590
|>	Ge	72	80295.370	86530.566		ug/L	
|	As r	75	66.250	-352.353	0.459	ug/L	52.086
|	As u	75	4271.897	4067.450	0.610	ug/L	46.293
|	Se r	82	-7.829	4.722	-0.133	ug/L	182.422
|	Se	77	1371.780	1367.597	1.558	ug/L	48.809
⌊	Sr	88	224.006	183.337	0.005	ug/L	34.151
⌈	Ag r	107	38.000	30.334	0.002	ug/L	164.197
|	Ag	109	33.334	29.667	0.001	ug/L	222.901
|	Cd r	111	151.080	143.360	0.014	ug/L	104.253
|	Cd	106	-1994.889	-2210.438	0.856	ug/L	169.905
|	Cd	108	-2114.569	-2310.098	0.794	ug/L	259.950
|	Cd	114	15.021	14.760	0.000	ug/L	545.330
|	Cd u	111	7.667	9.667	-0.001	ug/L	189.567
|>	In	115	165516.086	175404.076		ug/L	
|	Sb r	123	36.788	34.164	0.002	ug/L	98.511
⌊	Sb	121	48.334	33.000	0.005	ug/L	46.227

⌈	Sn	118	285.008	195.338	**0.029**	ug/L	46.960
|	Sn r	120	401.348	255.674	**0.034**	ug/L	33.419
|	Ba r	137	48.001	43.667	**0.004**	ug/L	185.591
|	Ba	135	29.667	20.000	**0.011**	ug/L	85.995
|>	Tb	159	198984.715	211870.271		ug/L	
|	Tl r	205	2238.391	837.721	**0.139**	ug/L	70.554
|	Tl	203	944.743	337.344	**0.145**	ug/L	74.763
|	U	238	127.003	30.667	**0.006**	ug/L	71.970
⌊	Pb	208	395.675	504.012	**-0.006**	ug/L	55.142
⌈	Na	23	27437.154	21260.554	**0.002**	mg/L	13.597
|	Mg	24	961.739	709.040	**0.000**	mg/L	78.940
|	K	39	436217.212	458015.620	**-0.000**	mg/L	75.218
|	Ca	44	8885.551	10752.953	**-0.007**	mg/L	5.202
|	Fe	54	19530.712	21271.210	**-0.002**	mg/L	16.986
⌊>	Sc-1	45	281609.887	293669.979		ug/L	
	Kr	83	133.669	70.334		ug/L	
	Cl	35	26269220.637	26810658.688		mg/L	
	C	12	314547.509	304308.241		mg/L	
	Y	89	156563.810	167906.034		ug/L	
⌈	Br	79	1736.880	1887.917	**-0.084**	ug/L	112.826
|	Br	81	12361.047	13439.866	**-0.642**	ug/L	48.092
⌊>	Ge-1	72	80295.370	86530.566		ug/L	
	Ru	99	1.667	2.667		ug/L	
	Pd	105	1787.893	1950.934		ug/L	
	Ho	165	191242.602	208038.839		ug/L	
	Th	232	4197.355	763.380	**0.185**	ug/L	57.449
⌈	Mo	95	183.337	105.335	**0.047**	ug/L	60.511
|	Mo	97	112.669	68.001	**0.043**	ug/L	50.911
|	Mo r	98	275.157	175.116	**0.037**	ug/L	60.736
|	Rh	103	7.667	2.667		ug/L	
⌊>	In-1	115	165516.086	175404.076		ug/L	
	Ti	47	151.003	183.004		ug/L	
	Li	7	21788.706	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
QC Std 4	B	11	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Zn	67	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	As r	75	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	As u	75	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cd	106	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cd	108	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br	81	IBL (LCB) is out of limits (+/- 0.400ug/L)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: -39

Sample Description:
Autosampler Position: 39
Sample Date/Time: Monday, February 13, 2012 12:49:28
Dataset File: C:\Elandata\Dataset\EL120213\-39.041
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120213.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.667	2.333	-0.002	ug/L	97.790
|>	Li u	6	327859.805	343542.862		ug/L	
L	Li	6	325911.969	341727.648		ug/L	
⌈	Be	9	1.667	2.333	-0.003	ug/L	58.748
|	B	11	42768.757	142.669	107.642	ug/L	2.044
|	Al	27	24603.577	1507.830	5.394	ug/L	2.174
|>	Sc	45	325213.355	293669.979		ug/L	
|	V r	51	20158.265	-1609.015	3.093	ug/L	0.564
|	V u	51	14943.321	90091.537	-12.148	ug/L	0.809
|	Cr r	52	68414.289	8054.295	9.990	ug/L	1.295
|	Cr	53	5805.582	31139.892	-45.164	ug/L	0.895
|	Mn	55	4266.225	367.679	0.406	ug/L	2.420
|	Co	59	263.674	42.001	0.033	ug/L	4.148
|	Ni r	60	192.671	78.001	0.078	ug/L	7.453
|	Ni	62	204.005	85.668	0.559	ug/L	5.473
|	Cu r	63	4159.166	199.338	1.441	ug/L	1.139
L	Cu	65	217.339	89.668	0.094	ug/L	22.050
⌈	Zn r	66	342.344	205.671	0.207	ug/L	13.117
|	Zn	67	825.386	2553.783	-14.763	ug/L	3.320
|	Zn	68	508.022	362.345	0.303	ug/L	4.939
|>	Ge	72	85815.993	86530.566		ug/L	
|	As r	75	99311.817	-352.353	109.081	ug/L	0.323
|	As u	75	99361.097	4067.450	109.199	ug/L	0.292
|	Se r	82	-7.023	4.722	-0.121	ug/L	223.604
|	Se	77	-9.889	1367.597	-19.377	ug/L	2.005
L	Sr	88	2706.503	183.337	0.210	ug/L	1.976
⌈	Ag r	107	19.000	30.334	-0.002	ug/L	52.155
|	Ag	109	18.000	29.667	-0.002	ug/L	38.377
|	Cd r	111	-177.494	143.360	-0.266	ug/L	8.893
|	Cd	106	-2153.284	-2210.438	0.199	ug/L	471.964
|	Cd	108	-1956.802	-2310.098	3.812	ug/L	40.164
|	Cd	114	21.105	14.760	0.002	ug/L	18.907
|	Cd u	111	11.000	9.667	0.001	ug/L	191.092
|>	In	115	172671.318	175404.076		ug/L	
|	Sb r	123	34.455	34.164	0.000	ug/L	81.102
L	Sb	121	39.667	33.000	0.002	ug/L	135.535

⌈	Sn	118	207.338	195.338	**0.005**	ug/L	113.844
|	Sn r	120	256.674	255.674	**0.002**	ug/L	301.060
|	Ba r	137	332.010	43.667	**0.160**	ug/L	3.430
|	Ba	135	198.671	20.000	**0.171**	ug/L	6.619
|>	Tb	159	205114.080	211870.271		ug/L	
|	Tl r	205	449.684	837.721	**-0.033**	ug/L	11.137
|	Tl	203	187.338	337.344	**-0.031**	ug/L	23.542
|	U	238	3638.230	30.667	**0.199**	ug/L	1.210
⌊	Pb	208	1433.067	504.012	**0.068**	ug/L	4.889
⌈	Na	23	462918683.027	21260.554	**97.713**	mg/L	0.807
|	Mg	24	5865.963	709.040	**0.002**	mg/L	1.805
|	K	39	1330813.370	458015.620	**0.102**	mg/L	1.876
|	Ca	44	34071.967	10752.953	**0.099**	mg/L	4.499
|	Fe	54	14859.417	21271.210	**-0.015**	mg/L	2.991
⌊>	Sc-1	45	325213.355	293669.979		ug/L	
	Kr	83	156.003	70.334		ug/L	
	Cl	35	159992.292	26810658.688		mg/L	
	C	12	15606121.666	304308.241		mg/L	
	Y	89	169619.684	167906.034		ug/L	
⌈	Br	79	5452.320	1887.917	**18.679**	ug/L	2.370
|	Br	81	16856.621	13439.866	**19.206**	ug/L	4.079
⌊>	Ge-1	72	85815.993	86530.566		ug/L	
	Ru	99	1.667	2.667		ug/L	
	Pd	105	1911.590	1950.934		ug/L	
	Ho	165	197842.621	208038.839		ug/L	
	Th	232	946.735	763.380	**0.010**	ug/L	31.497
⌈	Mo	95	2290.030	105.335	**1.172**	ug/L	2.155
|	Mo	97	1449.151	68.001	**1.166**	ug/L	4.723
|	Mo r	98	3771.149	175.116	**1.153**	ug/L	2.420
|	Rh	103	6.000	2.667		ug/L	
⌊>	In-1	115	172671.318	175404.076		ug/L	
	Ti	47	1217.442	183.004		ug/L	
	Li	7	24017.709	22382.421		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
B 11 Upper, S, EEE	B	11	Sample greater than CLM3
As r 75 Upper, S, EEE	As r	75	Sample greater than CLM3
Na 23 Upper, S, EEE	Na	23	Sample greater than CLM3

ICP-AES METALS Technical Review Checklist

(200.7, 6010) Hardness _____

For Internal Use Only

Site Name: Dimock WO#: 1202003

Analyst: JRDonsey Date given to Reviewer: 2/13/12

Matrix (circle): Solid / Aqueous / Other _____ SOP R3QA159-021511 / R3QA155-021511

(If TCLP is run: SOP R3QA135-021011)

Program (circle): Superfund / RCRA / Compliance NPDES or SDWA / Other: _____

The signature below indicates the following:

- This data meets the needs of the customer according to the request.
- The analysis was performed as per the SOP, or exceptions documented.
- All documentation needed to recreate the analyses has been reviewed.
- Data Review status set to Peer Reviewed in Element.

32-47

Report Mn for -35+-47

Peer Reviewer signature L Costaz Date accepted 2-14-12

If any data for this case is stored with another case file, give Site Name and WO# _____

Peer Reviewer Completes Section Below:

	YES	NO	N/A	Comments
General: Raw data is identified with sample ID's, site name, WO#, analyst name, date of analysis.	✓			
Quality Control:				
First CCV ±5% and RSD <3;	✓			
All other CCV ±10%, every 10 samples and end of run;	✓			
For Compliance samples (SDWA and NPDES): SCV ±5% (each time, including PTs)	✓			
All other samples SCV ±10%			✓	
LCV ±30%;	✓			
IBL < |Reporting limit|, analyzed with each CCV ;	✓			
BS (LCS) ±15%;	✓			
SRM (soils) within vendor acceptance limits;			✓	
BLK < |Reporting limit| (if >Reporting Limit **and** >1/10 of sample - must qualify)	✓			
MS [±30%] unless spike is <30% of sample value;	✓			
RPDs from DUP ≤20% aqueous & 35% soils;	✓			
Sample results < CAL or within documented linear range;	✓			

Interference Checks:
Spectral overlays or 2nd wavelength used or ✓

interfering elements not present above CAL

IFA recovery at ±20%; ✓

Non-interfering elements ± | Reporting limit | or calculated range from 200.7; ✓

Calculations/Report:
Calculations and transcriptions checked. ✓

Element Draft Report reviewed. ✓

Deviations and problems documented. ✓

NOTE: When soils are being reported, the *sample qualifier* 'dry' or 'wet' must be entered so that it appears in the header of the Element report. This will signify that the data was report 'wet weight' or 'dry weight' as appropriate.

Additional Comments by Peer Reviewer:

Analyst Ensures that the Data Case File is Complete and Accurate:

- ✓ Bench sheet (TCLP prep log)
- ✓ IEC tables
- ✓ Instrument run log
- ✓ Standard/Reagent Prep log
- ✓ TV sheets
- ✓ Element Peer Review report
- ✓ Raw data
- ✓ Data status set to analyzed

Additional Comments by Analyst on data issues:

Use the BS as the Scv for B or Sn

DIM0216291 DIM0216528

On-Demand Data Checklist
(used in addition to routine TRC)
For Internal Use Only

Parameter: Li, Sr, Ti + SN
Procedure/Method/Reference: 200.7

Site Name: Dimock WO#: 1202003
Analyst: JR Dorsey

The signature below indicates the following:
• The analysis was performed as per the On-Demand requirements below.

Peer Reviewer signature _____ Date accepted 2.14.12

Peer Reviewer Completes Section Below:

This is a special request which falls outside our routine protocols. Therefore, these samples were analyzed and the quality control (QC) were evaluated based on the "On Demand" criteria. These protocols include all the QC checks as per routine analyses plus special verification of the performance of the analytical method at the reported quantitation limit/s. These protocols are specified in the EPA Region III OASQA Laboratory Quality Manual, current version.

Quality Control:	**YES**	**NO**	**N/A**	**Comments**
A written procedure or reference must be available for the method being performed and referenced in the narrative. If the method to be performed is unique, the procedures must be fully documented.	✓			
Calibration of the instrumentation or analytical procedure must be according to the method or procedure.	✓			
Calibration verified by analysis of second source standard (SCV, SRM), if available. Concentration must be in the range of the calibration. Results must be within the method, procedure, client or in-house limits.	✓			
Analysis of one method blank (BLK) with each batch. Ideally, the results should be less than the expected quantitation levels set by the method, procedure, or in-house requirements.	✓			
Analysis of one matrix spike (MS) with each batch. For samples or parameters which do not lend themselves to matrix spiking, a BS or SRM sample must be analyzed. Results of spikes must be within the method, procedure, client or in-house limits.	✓			
Analysis of one duplicate analyses (DUP) or a quality control sample such as an SRM or BS with each batch. If duplicate analyses is not possible, e.g, insufficient sample quantity, a quality control sample must be analyzed in duplicate, if available. Results of duplicate analyses must be				

within the method, procedure, client or in-house limits. U

At least one blank spike (BS) must be carried through the entire method and analyzed with each batch. The concentration of the BS should be at the quantitation level or at the level of the expected sample results, if known. Results of the BS must be within the method, procedure, client or in-house limits. U

Any additional quality control items, such as surrogates, internal standards, etc., which the referenced method or procedure requires should be analyzed. Results must be within the method or, procedure limits. J

The analyst must document the impact on the usability of the reported data by applying qualifier codes if applicable and including a summary in the case file. J

Additional Comments:
The SCV for Sn failed at 107% TV = ± 5%, All Samples Less than QL 200 ug/L - NO FLAG

Changed the QL for Li to 25 ppb As requested, Digested 4 BS @ 25 ppb. All passed at 95%

Omit - Report QL at 200 ppb

EPA Region 3 - OASQA - METALS - SAMPLE PREPARATION/TEMPERATURE LOG

BB20907 **bch_metals.rpt**

Project: DAS R33907
Work Order No: 1202003
Site Name: Dimock Residential Groundwater
Analysis: Total Metals by 200.7
Total Metals by 200.8
Matrix: Water

Location: Analyst
Client: OSWER - Emergency Response
Account#: 2012T03N303DC6A3TARS00
Method/SOP: EPA 200.7/R3QA159
EPA 200.8/R3QA116

Comments from WO:

Analyst: JR Donsey	Solid samples are dried and prepared according to digestion SOP .	Certificate of Analysis Log#: 2
Sample Prep Date: 2/10/12	BS/MS spike Soln Bar Code: 12713/12714	HNO3 Bar Code: 11152 Vol. used 1 mL
DI Water Resistivity > 18 (MΩ-cm) (Y) / N	BS/MS ICP-MS Spike Units: (µL)	HCL Bar Code: 11148 Vol. used .5 mL
Hot Block1Time/Temp start: 10:30 / 96 °C	BS/MS ICP Spike Units: (µL)	Reagent purity correct (Y) / N
Hot Block1 Time/Temp stop: 3:00 / 97°C	Pipets Log# 11 Balance Log# 1	SRM ID ——— Bar Code ———
Digestion SOP: R3-QA155		

Li spike

0.5 ml of 10,000 ppm stock BC# 11008 diluted to 100 ml

.5ml into 200.7
.05ml " 200.8
.025ml " 200.7 for MDL study 4 samples TV = .025 mg/l

EPA Region 3 - OASQA - METALS - SAMPLE PREPARATION/TEMPERATURE LOG

BB20907 **bch_metals.rpt**

LabNumber	Cont ID	Sample Type	pH	Initial (mL)	Final (mL)	Spike1	Spike1 Amount µl	Spike2	Spike2 Amount µl	SourceID	ExtractionComments	Observations
1202003-32	D	SAM	<2	50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-33	D	SAM	↓	50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-34	D	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-35	D	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-36	D	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-37	D	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-38	D	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-39	D	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-40	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-41	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-42	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-43	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-44	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-45	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-46	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-47	A	SAM	↓	50	50						71/71 Drinking Water (Total/Dissolved)	
BB20907-BLK1				50	50					-		
BB20907-BLK2				50	50					-		
BB20907-BS1				50	50	0600208	50	0600209	50	-		
BB20907-BS2				50	50	0600208	500	0600209	500	-		
BB20907-DUP1				50	50					1202003-35		
BB20907-DUP2				50	50					1202003-35		
BB20907-DUP3				50	50					1202003-41		

EPA Region 3 - OASQA - METALS - SAMPLE PREPARATION/TEMPERATURE LOG

BB20907 **bch_metals.rpt**

LabNumber	Cont ID	Sample Type	pH	Initial (mL)	Final (mL)	Spike1	Spike1 Amount µl	Spike2	Spike2 Amount µl	SourceID	ExtractionComments	Observations
BB20907-DUP4				50	50					1202003-41		
BB20907-MS1				50	50	0600208	50	0600209	50	1202003-36		
BB20907-MS2				50	50	0600208	500	0600209	500	1202003-36		
BB20907-MS3				50	50	0600208	50	0600209	50	1202003-43		
BB20907-MS4				50	50	0600208	500	0600209	500	1202003-43		

RUN LOG FOR 3300DV OPTIMA JR DORSEY 02/13/2012
DEMOCK 1202003

JR Dorsey 2/13/12

IBL
CALA
CALB
IBL
LCV LI/SR
LCV
CCV@A/B
SCV@LVM – missed sample cup
SCV@LVM – made wrong – Remake + RR
IFA@1
IFA@2
IFA@3
SCV@LVM ✓
BB20907-BLK2
BB20907-BS2
1202003-32
1202003-33
1202003-34
1202003-35
BB20907-DUP2
1202003-36
BB20907-MS2
1202003-37
IBL
CCV@A/B
1202003-38
1202003-39
1202003-40
1202003-41
BB20907-DUP4
1202003-42
1202003-43
BB20907-MS4
1202003-44
1202003-45
IBL
CCV@A/B
1202003-46
1202003-47
BS Li @25
BS Li @25
BS Li @25
BS Li @25
IBL
CCV@A/B

} NQL for Li pass at 25ppb.

EPA - OASQA - ICP Standard/Reagent Preparation
Perkin Elmer 3300 OPTIMA

Analyst: JR Doorsey Date: 2/13/12 Pipets Logbook # SNB11

Run Filename: DV120213 (all electronic files saved using Run Filename) SOP #: R3-QA159

SITE/WO#: Drmock 120200 3 Reagent Purity checked ✓

SCV in 2% nitric / 2% HCl matrix (**made daily**): or alternate matrix of _____
(diluted with IBL)

* Stock Solution	Expiration Date	Stock Conc	Vendor	Bar Code	Stock Volume	Final Volume	Final Conc	Check if used
QC-7A	1-12	100 mg/L 1000 mg/L (K)	Spex	13852	0.5 ml	12.5 ml	see TV sheet	✓
QC-21	1-12	100 mg/L	Spex	13853	0.5ml	12.5 ml	see TV sheet	✓
QC-7A (Ag)	1-12	50 mg/L	Spex	13853	0.05ml	25 ml	0.100 mg/L	

* See Certificate of Analysis for analytes.

Internal Standard in 2% nitric matrix (made as needed...no expiration date applicable)

Stock Solution	Stock Conc	Vendor	Bar Code	Stock Volume	Nitric Volume	Final Volume	Final Conc
Yttrium	1000 mg/L	High Purity	4004	5 mL	10 mL	500 mL	10mg/L

Calibration Standards (CAL) and IBL in 2% nitric / 2% HCl matrix (2 mL acid per 100 mL solution) or alternate matrix of _____

	* Stock Soln and Conc	Vendor	Bar Code	Stock Volume	Final Volume	Final Conc	Date made/ Preparer	Check if used
IBL	na	na	na	na	1000 mL	na	made daily	√
CAL A	CAL STD A-R Solution A+B (see certificate)	High Purity	11004 11002	10 mL A 10 mL B	1000 ml	see TV sheet	3/11 jrd	
CAL B	CAL STD B: Solution A+B (see certificate)	High Purity	11010 11002	10 mL A 10 mL B	1000 ml	see TV sheet	10/11 jrd	
CAL AG	Silver 1000 mg/L	High Purity	11884	0.02 mL	100 ml	0.20 mg/L		
CAL BS								
CAL A	CAL STD A-R Solution A+B (see certificate)	High Purity	11004 11002	2.5 mL A 2.5 mL B	200 ml	see TV sheet	2/2/12 jrd	✓
	Li @ 10,000 ppm Sr @1000 ppm	High Purity High Purity	11008 11882	0.1ml 1.0 ml				
CAL B	CAL STD B: Solution A+B (see certificate)	High Purity	11010 11002	2.5 mL A 2.5 mL B	200 ml	see TV sheet	2/2/12 jrd	✓

* See Certificate of Analysis for analytes and initial concentrations.

EPA - OASQA - ICP Standard/Reagent Preparation
Perkin Elmer 3300 OPTIMA

Other QC standards in 2% nitric / 2% HCl matrix (2 mL acid per 100 mL solution) or alternate matrix of _____

	*Stock Soln and Concentration	Vendor	Bar Code	Stock Volume	Final Volume	Final Conc	Date made/ Preparer	Check if used
LCV (10:1)	EPA-CRDL-RR (See certificate) + 1000 mg/L (Ag)	High Purity EM	5759 3355 (Ag)	0.5 mL 0.01mL	100 mL 100 mL	See below^ 0.1 mg/L	1/11 JRD	
^LCV made daily by diluting the LCV(10:1) solution by 10X using the IBL. See TV sheet for final concs.								
~~LCV (Ag)~~	Li & Sr	dilute SCV 20X		TV =	.200 mg/L		2/13/12 JRD	✓
	Li see digestion Page	.025mL of Li spike		to 50mL	TV	= 25 ug/L		✓
IFA 1	10,000 mg/L Ca 10,000 mg/L Al 10,000 mg/L Ni	High Purity High Purity High Purity	10171 11887 5971	5 mL 5 mL 1 mL	200 mL	250 mg/L 250 mg/L 50 mg/L	1/2012 jrd	✓
IFA 2	10,000 mg/L Na 10,000 mg/L Mg 10,000 mg/L Fe	High Purity High Purity High Purity	11808 10172 11886	5 mL 5 mL 5 mL	200 mL	250 mg/L 250 mg/L 250 mg/L	6/11 rc	✓
IFA 3	10,000 mg/L Mn 10,000 mg/L Cu 10,000 mg/L Cr	High Purity High Purity High Purity	5974 5972 5973	1 mL 0.4 mL 1 mL	200 mL	50 mg/L 20 mg/L 50 mg/L	1/2012 jrd	✓

* See Certificate of Analysis for analytes and initial concentrations.

Check standards (made daily) Matrix will be the same as the Calibration Standards (CAL) and IBL (lcb)

CCV Solution ID	Prepared by diluting 1:1	Final Conc	Check if used
CCV AB	CAL A plus CAL B	see TV sheet	✓
CCV AG	CAL AG plus IBL	0.10 mg/L	
CCV BS	CAL BS plus IBL	2.5 mg/L	

Reagent Acid Stocks

	Vendor	Bar Code		Vendor	Bar Code
Nitric Acid	Fisher	11152	HCl Acid	Fisher	11148

Certificates of Analysis Logbook # _____SNB 2_____

Comments:_____

IEC File Last Saved: 1/5/2012 2:35:27 PM
Printed On: 2/13/2012 12:53:32 PM

Results Data Set Name: DV09818
Method Name: IEC IFA rechec
Results Library: C:\pe\Administrator\Results\Results.md

Interfering Analytes

	Analytes	Al 308.215	Ca 317.933	Cr 205.560	Cu 327.393
1	**Ag 328.068**	0.23	0	0	0.5
2	**Al 308.215**	n/a	0.961621	0	0
3	**As 188.979**	-0.1	0	-6	3
4	**B 249.677**	0	0	0	0
6	**Be 313.107**	0	0	-0.2	0
8	**Cd 214.440**	0.18	0	-0.5	-0.3
10	**Cr 205.560**	0	0	n/a	0
11	**Cu 327.393**	0	0.0759573	0	n/a
19	**Pb 220.353**	0.1	0	0.4	0
20	**Sb 206.836**	0.9	0	15	0
22	**Sn 189.927**	0	1.4	0	0
24	**Tl 190.801**	3.2	0	0	0
27	**Zn 206.200**	0.1	0	0.7	0

IEC File Last Saved: 1/5/2012 2:35:27 PM
Printed On: 2/13/2012 12:53:32 PM

Results Data Set Name: DV09818
Method Name: IEC IFA rechec
Results Library: C:\pe\Administrator\Results\Results.md

Interfering Analytes

	Analytes	Fe 238.204	Mg 279.077	Mn 257.610	Ni 231.604
1	**Ag 328.068**	-0.55	0	0	-0.1
2	**Al 308.215**	0	0	0	0
3	**As 188.979**	0.2	-0.5	6.2	0
4	**B 249.677**	0	0	1	0
6	**Be 313.107**	0	0	0	0
8	**Cd 214.440**	0.04	0	0	-0.1
10	**Cr 205.560**	-0.15	0	0	0.5
11	**Cu 327.393**	0	0	0	0
19	**Pb 220.353**	-0.05	0	0	0.8
20	**Sb 206.836**	0.6	0.4	1	2.4
22	**Sn 189.927**	0	0	0	0
24	**Tl 190.801**	2	1.6	0	0
27	**Zn 206.200**	0	0	0	0

IEC File Last Saved: 1/5/2012 2:35:27 PM
Printed On: 2/13/2012 12:53:32 PM

Results Data Set Name: DV09818
Method Name: IEC IFA rechec
Results Library: C:\pe\Administrator\Results\Results.rmd

Interfering Analytes

	Analytes	Ti 334.940
1	**Ag 328.068**	0
2	**Al 308.215**	0
3	**As 188.979**	-10
4	**B 249.677**	0
6	**Be 313.107**	0
8	**Cd 214.440**	0
10	**Cr 205.560**	0
11	**Cu 327.393**	0
19	**Pb 220.353**	0
20	**Sb 206.836**	-0.8
22	**Sn 189.927**	0
24	**Tl 190.801**	0
27	**Zn 206.200**	0

OASQA TRUE VALUES for ICP Standards and QC

CAL stock	ICP	CCV ±5% (ppm)	SCV ±5%/±10% (ppm) (First time ±5%, all others ±10%)	LCV ±30% (ppm)	BS/MS ±15/30% (ppm) (based on 0.5ml stock to 50 mL)	IFA1 ± 20% (ppm)	IFA2 ± 20% (ppm)	IFA2 ±20% (ppm)
AG	Ag	0.100	0.100	0.010	0.050			
B	Al	10.00	4.00	0.200	2.00	250 ((ag),as,cd, pb,sb,tl,zn)		
B	As	5.00	4.00	0.200	0.500			
A	Ba	2.50	4.00	0.200	2.00			
A	Be	2.50	4.00	0.005	0.050			
A	B	2.50	4.00	0.200	0.500			
B	Ca	25.00	4.00	0.500	10.00	250(al,b,cu,sn)		
A	Cd	2.50	4.00	0.005	0.050			
A	Co	2.50	4.00	0.050	0.500			
B	Cr	5.00	4.00	0.010	0.500			50 (as,be,cd,sb,zn)
B	Cu	5.00	4.00	0.025	0.500			20 (ag,pb,(cd))
B	Fe	10.00	4.00	0.100	5.00		250(as,ag,cd,cr,ni, pb,sb,tl,zn)	
B	K	25.00	40.00	2.000	20.00			
	Li	2.50*	4.00	0.200*	0.500			
B	Mg	25.00	4.00	0.500	10.00		250	
B	Mn	5.00	4.00	0.015	0.500			50 (b)
A	Mo	0.500	4.00	0.200	0.500			
B	Na	25.00	4.00	1.000	10.00		250	
B	Ni	5.00	4.00	0.040	0.500	50 (cd,cr,pb,sb)		
A	Pb	2.50	4.00	0.050	0.500			
A	Sb	2.50	4.00	0.060	0.500			
A	Se	2.50	4.00	0.200	0.500			
A	Sn	2.50	1.00*	0.200	0.500			
	Sr	2.50*	4.00	0.200*	0.500			
A	Ti	0.500	4.00	0.200	0.500			
A	Tl	2.50	4.00	0.200	0.500			
	U				0.500			
A	V	1.25	4.00	0.050	0.500			
B	Zn	10.00	4.00	0.020	0.500			

* need to be added separately

( ) = most likely analytes to be interfered with

TCLP ppm levels (As-5, Ba-100, Cd-1, Cr-5, Pb-5, Se-1, Ag-5)

2/13/12 Dimock 1202003

Analysis Begun

Start Time: 2/13/2012 9:21:17 AM
Plasma On Time: 2/13/2012 7:51:52 AM
Logged In Analyst: Optima
Technique: ICP Continuous
Spectrometer Model: Optima 3300 DV, S/N 069N9033001Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\BA20301.sif
Batch ID: BB20907
Results Data Set: DV120213
Results Library: C:\pe\Administrator\Results\Results.mdb

Method Loaded
Method Name: JOE 2010
Method Last Saved: 2/1/2012 7:50:34 AM
IEC File: JOE 2010.iec
MSF File:
Method Description: 200.7 ver4.4 (analysis 200.7 or equivalent)

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Al 308.215	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
As 188.979	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
B 249.677	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Ba 233.527	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Be 313.107	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Ca 317.933	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Cd 214.440	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Co 228.616	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Cr 205.560	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Cu 327.393	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Fe 238.204	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
K 766.490	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Mg 279.077	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Mn 257.610	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Mo 202.031	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Na 589.592	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Ni 231.604	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Pb 220.353	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Sb 206.836	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Se 196.026	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Sn 189.927	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Ti 334.940	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Tl 190.801	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
V 292.402	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Y 360.073	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Zn 206.200	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Li 670.784	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Sr 421.552	Lin, Calc Int	Peak Area	Radial	Y 360.073	No

Sequence No.: 1
Autosampler Location: 1
Sample ID: IBL
Date Collected: 2/13/2012 9:21:17 AM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Mean Data: IBL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	637136.5	1432.92	0.22%	100.0	%
Ag 328.068†	1151.4	32.86	2.85%	[0.00]	mg/L
Al 308.215†	349.9	17.80	5.09%	[0.00]	mg/L
As 188.979†	-2.3	2.58	114.04%	[0.00]	mg/L
B 249.677†	-40.8	4.04	9.91%	[0.00]	mg/L
Ba 233.527†	29.7	4.18	14.04%	[0.00]	mg/L
Be 313.107†	-669.5	22.86	3.41%	[0.00]	mg/L
Ca 317.933†	7729.4	46.02	0.60%	[0.00]	mg/L
Cd 214.440†	275.1	4.93	1.79%	[0.00]	mg/L
Co 228.616†	170.0	1.47	0.86%	[0.00]	mg/L
Cr 205.560†	-3.1	0.97	31.13%	[0.00]	mg/L

Cu 327.393†	-22.9	36.68	159.85%	[0.00] mg/L
Fe 238.204†	52.4	4.02	7.67%	[0.00] mg/L
K 766.490†	2527.1	31.33	1.24%	[0.00] mg/L
Mg 279.077†	-164.5	8.29	5.04%	[0.00] mg/L
Mn 257.610†	731.3	3.31	0.45%	[0.00] mg/L
Mo 202.031†	22.7	3.04	13.38%	[0.00] mg/L
Na 589.592†	1569.9	36.40	2.32%	[0.00] mg/L
Ni 231.604†	17.5	5.52	31.49%	[0.00] mg/L
Pb 220.353†	58.5	3.64	6.23%	[0.00] mg/L
Sb 206.836†	151.7	5.65	3.72%	[0.00] mg/L
Se 196.026†	38.6	2.53	6.56%	[0.00] mg/L
Sn 189.927†	12.5	2.29	18.33%	[0.00] mg/L
Ti 334.940†	392.1	14.94	3.81%	[0.00] mg/L
Tl 190.801†	39.6	0.24	0.59%	[0.00] mg/L
V 292.402†	-1.1	28.66	>999.9%	[0.00] mg/L
Zn 206.200†	172.5	1.37	0.79%	[0.00] mg/L
Li 670.784†	930.9	57.62	6.19%	[0.00] mg/L
Sr 421.552†	63.6	24.40	38.38%	[0.00] mg/L

Sequence No.: 2 **Autosampler Location: 3**
Sample ID: CALA **Date Collected: 2/13/2012 9:24:59 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CALA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	646608.2	3660.58	0.57%	101.5	%
B 249.677†	60757.9	799.74	1.32%	[5.00]	mg/L
Ba 233.527†	83671.9	509.41	0.61%	[5.00]	mg/L
Be 313.107†	3577950.6	8698.01	0.24%	[5.00]	mg/L
Cd 214.440†	178962.5	703.70	0.39%	[5.00]	mg/L
Co 228.616†	30025.8	227.82	0.76%	[5.00]	mg/L
Mo 202.031†	3192.3	19.55	0.61%	[1.00]	mg/L
Pb 220.353†	7282.9	42.72	0.59%	[5.00]	mg/L
Sb 206.836†	3078.4	21.88	0.71%	[5.00]	mg/L
Se 196.026†	2521.8	9.82	0.39%	[5.00]	mg/L
Sn 189.927†	2211.7	7.61	0.34%	[5.00]	mg/L
Ti 334.940†	155698.8	1216.99	0.78%	[1.00]	mg/L
Tl 190.801†	453.1	4.61	1.02%	[5.00]	mg/L
V 292.402†	87283.1	629.87	0.72%	[2.5]	mg/L
Li 670.784†	968550.6	1864.17	0.19%	[5]	mg/L
Sr 421.552†	6096034.5	32131.58	0.53%	[5]	mg/L

Sequence No.: 3 **Autosampler Location: 4**
Sample ID: CALB **Date Collected: 2/13/2012 9:29:16 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CALB

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	627381.2	3127.82	0.50%	98.47	%
Al 308.215†	75925.0	95.44	0.13%	[20.0]	mg/L
As 188.979†	4184.0	38.79	0.93%	[10.0]	mg/L
Ca 317.933†	1992950.3	4886.05	0.25%	[50.0]	mg/L
Cr 205.560†	57299.2	361.95	0.63%	[10.0]	mg/L
Cu 327.393†	324884.6	464.65	0.14%	[10.0]	mg/L
Fe 238.204†	513373.5	1341.15	0.26%	[20.0]	mg/L
K 766.490†	357726.5	459.45	0.13%	[50.0]	mg/L
Mg 279.077†	183082.1	504.28	0.28%	[50.0]	mg/L
Mn 257.610†	1271234.9	2315.86	0.18%	[10.0]	mg/L
Na 589.592†	872387.4	817.07	0.09%	[50.0]	mg/L
Ni 231.604†	67482.3	403.95	0.60%	[10.0]	mg/L
Zn 206.200†	184511.8	639.87	0.35%	[20.0]	mg/L

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

Autosampler Location: 1
Date Collected: 2/13/2012 9:32:03 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: IBL

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	628762.9	98.69	%	0.561				0.57%
Ag 328.068†	25.5						58.33	228.97%
Unable to evaluate QC.								
Al 308.215†	-26.5	-0.0070	mg/L	0.00144	-6.978	µg/L	1.4402	20.64%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	0.2	0.0004	mg/L	0.00785	0.3562	µg/L	7.84606	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	252.5	0.0208	mg/L	0.00159	20.78	µg/L	1.593	7.67%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	4.4	0.0003	mg/L	0.00012	0.2607	µg/L	0.12212	46.85%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	90.3	0.0001	mg/L	0.00007	0.1263	µg/L	0.06585	52.15%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	402.3	0.0101	mg/L	0.00133	10.09	µg/L	1.328	13.16%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 214.440†	8.1	0.0002	mg/L	0.00013	0.2303	µg/L	0.12587	54.65%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	-0.5	-0.0001	mg/L	0.00092	-0.0846	µg/L	0.92112	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	2.6	0.0004	mg/L	0.00100	0.4458	µg/L	1.00026	224.38%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 327.393†	159.1	0.0049	mg/L	0.00249	4.895	µg/L	2.4865	50.80%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	60.4	0.0024	mg/L	0.00042	2.352	µg/L	0.4247	18.05%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	342.7	0.0479	mg/L	0.00760	47.89	µg/L	7.597	15.86%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	12.6	0.0034	mg/L	0.00247	3.437	µg/L	2.4701	71.87%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	106.6	0.0008	mg/L	0.00042	0.8385	µg/L	0.42245	50.38%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	4.4	0.0014	mg/L	0.00195	1.390	µg/L	1.9526	140.46%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	516.8	0.0296	mg/L	0.00593	29.62	µg/L	5.927	20.01%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	5.3	0.0008	mg/L	0.00073	0.7909	µg/L	0.73483	92.90%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	0.7	0.0005	mg/L	0.00488	0.4513	µg/L	4.88229	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	12.5	0.0204	mg/L	0.00642	20.37	µg/L	6.416	31.50%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	0.9	0.0018	mg/L	0.01056	1.766	µg/L	10.5567	597.67%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	0.3	0.0006	mg/L	0.00206	0.6176	µg/L	2.05787	333.21%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	-2.6	0.0000	mg/L	0.00026	-0.0170	µg/L	0.25752	>999.9%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-0.1	-0.0008	mg/L	0.01314	-0.8122	µg/L	13.13554	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-1.0	0.0000	mg/L	0.00037	-0.0285	µg/L	0.37122	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	70.5	0.0076	mg/L	0.00176	7.641	µg/L	1.7551	22.97%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Li 670.784†	352.5	0.0018	mg/L	0.00042	1.820	µg/L	0.4166	22.89%
QC value within limits for Li 670.784 Recovery = Not calculated								
Sr 421.552†	93.6	0.0001	mg/L	0.00002	0.0768	µg/L	0.02136	27.82%
QC value within limits for Sr 421.552 Recovery = Not calculated								

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 5
Autosampler Location: 5

Sample ID: LCV LI/SR
Analyst:
Initial Sample Wt:
Dilution:

Date Collected: 2/13/2012 9:35:40 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCV LI/SR

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 360.073	633946.6	99.50	%	0.896				0.90%
Ag 328.068†	5571.4						55.49	1.00%
Al 308.215†	755.4	0.1988	mg/L	0.00636	198.8	µg/L	6.36	3.20%
As 188.979†	84.3	0.2028	mg/L	0.00600	202.8	µg/L	6.00	2.96%
B 249.677†	2789.3	0.2293	mg/L	0.00141	229.3	µg/L	1.41	0.61%
Ba 233.527†	3528.7	0.2109	mg/L	0.00128	210.9	µg/L	1.28	0.61%
Be 313.107†	146633.7	0.2050	mg/L	0.00137	205.0	µg/L	1.37	0.67%
Ca 317.933†	8274.2	0.2076	mg/L	0.00240	207.6	µg/L	2.40	1.16%
Cd 214.440†	7424.6	0.2076	mg/L	0.00216	207.6	µg/L	2.16	1.04%
Co 228.616†	1267.7	0.2111	mg/L	0.00136	211.1	µg/L	1.36	0.64%
Cr 205.560†	1203.5	0.2100	mg/L	0.00214	210.0	µg/L	2.14	1.02%
Cu 327.393†	6942.2	0.2137	mg/L	0.00111	213.7	µg/L	1.11	0.52%
Fe 238.204†	5397.0	0.2103	mg/L	0.00224	210.3	µg/L	2.24	1.07%
K 766.490†	14675.9	2.051	mg/L	0.0197	2051	µg/L	19.7	0.96%
Mg 279.077†	758.9	0.2072	mg/L	0.00196	207.2	µg/L	1.96	0.95%
Mn 257.610†	26986.5	0.2123	mg/L	0.00164	212.3	µg/L	1.64	0.77%
Mo 202.031†	662.6	0.2076	mg/L	0.00339	207.6	µg/L	3.39	1.63%
Na 589.592†	3909.9	0.2241	mg/L	0.00308	224.1	µg/L	3.08	1.37%
Ni 231.604†	1429.8	0.2119	mg/L	0.00305	211.9	µg/L	3.05	1.44%
Pb 220.353†	304.4	0.2087	mg/L	0.00077	208.7	µg/L	0.77	0.37%
Sb 206.836†	139.6	0.2227	mg/L	0.00646	222.7	µg/L	6.46	2.90%
Se 196.026†	109.3	0.2167	mg/L	0.01424	216.7	µg/L	14.24	6.57%
Sn 189.927†	-0.6	-0.0017	mg/L	0.00154	-1.705	µg/L	1.5356	90.05%
Ti 334.940†	31789.7	0.2042	mg/L	0.00178	204.2	µg/L	1.78	0.87%
Tl 190.801†	19.0	0.2085	mg/L	0.01836	208.5	µg/L	18.36	8.81%
V 292.402†	7119.3	0.2039	mg/L	0.00098	203.9	µg/L	0.98	0.48%
Zn 206.200†	1984.5	0.2149	mg/L	0.00286	214.9	µg/L	2.86	1.33%
Li 670.784†	39788.3	0.2054	mg/L	0.00081	205.4	µg/L	0.81	0.39%
QC value within limits for Li 670.784 Recovery = 102.70%								
Sr 421.552†	251230.4	0.2061	mg/L	0.00173	206.1	µg/L	1.73	0.84%
QC value within limits for Sr 421.552 Recovery = 103.03%								

All analyte(s) passed QC.

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

Autosampler Location: 6
Date Collected: 2/13/2012 9:39:23 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 360.073	634544.5	99.59	%	1.070				1.07%
Ag 328.068†	649.5						48.97	7.54%
Unable to evaluate QC.								
Al 308.215†	826.2	0.2171	mg/L	0.01344	217.1	µg/L	13.44	6.19%
QC value within limits for Al 308.215 Recovery = 108.55%								
As 188.979†	89.3	0.2159	mg/L	0.00770	215.9	µg/L	7.70	3.57%
QC value within limits for As 188.979 Recovery = 107.93%								
B 249.677†	2747.1	0.2261	mg/L	0.00378	226.1	µg/L	3.78	1.67%
QC value within limits for B 249.677 Recovery = 113.03%								
Ba 233.527†	3685.8	0.2203	mg/L	0.00349	220.3	µg/L	3.49	1.58%
QC value within limits for Ba 233.527 Recovery = 110.13%								
Be 313.107†	4156.9	0.0058	mg/L	0.00009	5.811	µg/L	0.0916	1.58%
QC value within limits for Be 313.107 Recovery = 116.23%								
Ca 317.933†	22314.4	0.5598	mg/L	0.00665	559.8	µg/L	6.65	1.19%
QC value within limits for Ca 317.933 Recovery = 111.97%								
Cd 214.440†	192.2	0.0053	mg/L	0.00007	5.344	µg/L	0.0749	1.40%
QC value within limits for Cd 214.440 Recovery = 106.87%								
Co 228.616†	325.3	0.0542	mg/L	0.00117	54.17	µg/L	1.171	2.16%
QC value within limits for Co 228.616 Recovery = 108.34%								

Cr 205.560†	67.9	0.0118 mg/L	0.00178	11.84 µg/L	1.777	15.01%
QC value within limits for Cr 205.560 Recovery = 118.41%						
Cu 327.393†	893.8	0.0275 mg/L	0.00094	27.47 µg/L	0.935	3.40%
QC value within limits for Cu 327.393 Recovery = 109.88%						
Fe 238.204†	2909.9	0.1134 mg/L	0.00145	113.4 µg/L	1.45	1.28%
QC value within limits for Fe 238.204 Recovery = 113.36%						
K 766.490†	15660.4	2.189 mg/L	0.0301	2189 µg/L	30.1	1.38%
QC value within limits for K 766.490 Recovery = 109.44%						
Mg 279.077†	2033.6	0.5554 mg/L	0.00635	555.4 µg/L	6.35	1.14%
QC value within limits for Mg 279.077 Recovery = 111.07%						
Mn 257.610†	2122.2	0.0167 mg/L	0.00020	16.69 µg/L	0.202	1.21%
QC value within limits for Mn 257.610 Recovery = 111.29%						
Mo 202.031†	698.3	0.2188 mg/L	0.00092	218.8 µg/L	0.92	0.42%
QC value within limits for Mo 202.031 Recovery = 109.38%						
Na 589.592†	19181.5	1.099 mg/L	0.0157	1099 µg/L	15.7	1.43%
QC value within limits for Na 589.592 Recovery = 109.94%						
Ni 231.604†	292.6	0.0434 mg/L	0.00076	43.35 µg/L	0.759	1.75%
QC value within limits for Ni 231.604 Recovery = 108.38%						
Pb 220.353†	82.3	0.0565 mg/L	0.00104	56.47 µg/L	1.039	1.84%
QC value within limits for Pb 220.353 Recovery = 112.93%						
Sb 206.836†	47.9	0.0772 mg/L	0.00158	77.23 µg/L	1.581	2.05%
QC value within limits for Sb 206.836 Recovery = 128.72%						
Se 196.026†	116.7	0.2314 mg/L	0.00538	231.4 µg/L	5.38	2.32%
QC value within limits for Se 196.026 Recovery = 115.68%						
Sn 189.927†	98.0	0.2208 mg/L	0.00724	220.8 µg/L	7.24	3.28%
QC value within limits for Sn 189.927 Recovery = 110.42%						
Ti 334.940†	34059.5	0.2188 mg/L	0.00332	218.8 µg/L	3.32	1.52%
QC value within limits for Ti 334.940 Recovery = 109.38%						
Tl 190.801†	19.2	0.2106 mg/L	0.02493	210.6 µg/L	24.93	11.84%
QC value within limits for Tl 190.801 Recovery = 105.28%						
V 292.402†	1830.0	0.0524 mg/L	0.00135	52.42 µg/L	1.346	2.57%
QC value within limits for V 292.402 Recovery = 104.83%						
Zn 206.200†	218.7	0.0237 mg/L	0.00095	23.68 µg/L	0.948	4.00%
QC value within limits for Zn 206.200 Recovery = 118.39%						
Li 670.784†	154.1	0.0008 mg/L	0.00019	0.7954 µg/L	0.18584	23.37%
QC value within limits for Li 670.784 Recovery = Not calculated						
Sr 421.552†	45.0	0.0000 mg/L	0.00002	0.0369 µg/L	0.02050	55.55%
QC value within limits for Sr 421.552 Recovery = Not calculated						

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 7
Sample ID: CCV@A/B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/13/2012 9:43:06 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV@A/B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	626831.2	98.38	%	0.712				0.72%
Ag 328.068†	-293.9						40.97	13.94%
Al 308.215†	38357.9	10.08	mg/L	0.123	10080	µg/L	122.9	1.22%
QC value within limits for Al 308.215 Recovery = 100.79%								
As 188.979†	2115.5	5.056	mg/L	0.0224	5056	µg/L	22.4	0.44%
QC value within limits for As 188.979 Recovery = 101.13%								
B 249.677†	31094.2	2.554	mg/L	0.0273	2554	µg/L	27.3	1.07%
QC value within limits for B 249.677 Recovery = 102.15%								
Ba 233.527†	42313.9	2.529	mg/L	0.0241	2529	µg/L	24.1	0.95%
QC value within limits for Ba 233.527 Recovery = 101.14%								
Be 313.107†	1828200.5	2.556	mg/L	0.0027	2556	µg/L	2.7	0.10%
QC value within limits for Be 313.107 Recovery = 102.23%								
Ca 317.933†	1022136.8	25.64	mg/L	0.064	25640	µg/L	63.5	0.25%
QC value within limits for Ca 317.933 Recovery = 102.58%								
Cd 214.440†	89766.0	2.510	mg/L	0.0192	2510	µg/L	19.2	0.77%
QC value within limits for Cd 214.440 Recovery = 100.41%								
Co 228.616†	15170.6	2.526	mg/L	0.0254	2526	µg/L	25.4	1.00%
QC value within limits for Co 228.616 Recovery = 101.05%								
Cr 205.560†	29306.4	5.114	mg/L	0.0463	5114	µg/L	46.3	0.91%
QC value within limits for Cr 205.560 Recovery = 102.27%								
Cu 327.393†	166365.4	5.119	mg/L	0.0677	5119	µg/L	67.7	1.32%

QC value within limits for Cu 327.393 Recovery = 102.38%

Fe 238.204†	263919.8	10.28 mg/L	0.021	10280 µg/L	21.0	0.20%
QC value within limits for Fe 238.204 Recovery = 102.82%						
K 766.490†	180787.4	25.27 mg/L	0.005	25270 µg/L	4.8	0.02%
QC value within limits for K 766.490 Recovery = 101.08%						
Mg 279.077†	93253.0	25.47 mg/L	0.227	25470 µg/L	226.9	0.89%
QC value within limits for Mg 279.077 Recovery = 101.87%						
Mn 257.610†	654280.3	5.147 mg/L	0.0078	5147 µg/L	7.8	0.15%
QC value within limits for Mn 257.610 Recovery = 102.94%						
Mo 202.031†	1653.3	0.5179 mg/L	0.00045	517.9 µg/L	0.45	0.09%
QC value within limits for Mo 202.031 Recovery = 103.58%						
Na 589.592†	447976.1	25.68 mg/L	0.065	25680 µg/L	65.3	0.25%
QC value within limits for Na 589.592 Recovery = 102.70%						
Ni 231.604†	34685.2	5.140 mg/L	0.0458	5140 µg/L	45.8	0.89%
QC value within limits for Ni 231.604 Recovery = 102.80%						
Pb 220.353†	3642.4	2.494 mg/L	0.0202	2494 µg/L	20.2	0.81%
QC value within limits for Pb 220.353 Recovery = 99.76%						
Sb 206.836†	1658.3	2.574 mg/L	0.0181	2574 µg/L	18.1	0.70%
QC value within limits for Sb 206.836 Recovery = 102.97%						
Se 196.026†	1308.0	2.593 mg/L	0.0079	2593 µg/L	7.9	0.30%
QC value within limits for Se 196.026 Recovery = 103.73%						
Sn 189.927†	1148.2	2.560 mg/L	0.0142	2560 µg/L	14.2	0.56%
QC value within limits for Sn 189.927 Recovery = 102.40%						
Ti 334.940†	80500.6	0.5170 mg/L	0.00620	517.0 µg/L	6.20	1.20%
QC value within limits for Ti 334.940 Recovery = 103.41%						
Tl 190.801†	240.5	2.561 mg/L	0.0523	2561 µg/L	52.3	2.04%
QC value within limits for Tl 190.801 Recovery = 102.44%						
V 292.402†	44924.3	1.287 mg/L	0.0160	1287 µg/L	16.0	1.24%
QC value within limits for V 292.402 Recovery = 102.94%						
Zn 206.200†	94769.4	10.27 mg/L	0.074	10270 µg/L	73.8	0.72%
QC value within limits for Zn 206.200 Recovery = 102.68%						
Li 670.784†	482270.3	2.490 mg/L	0.0032	2490 µg/L	3.2	0.13%
QC value within limits for Li 670.784 Recovery = 99.59%						
Sr 421.552†	3097095.2	2.540 mg/L	0.0161	2540 µg/L	16.1	0.63%
QC value within limits for Sr 421.552 Recovery = 101.61%						

All analyte(s) passed QC.

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Sequence No.: 8 **Autosampler Location:** 10
Sample ID: SCV@LVM **Date Collected:** 2/13/2012 9:47:21 AM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Missed sample on Omit

Mean Data: SCV@LVM

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	808261.6	126.9	%	8.62				6.80%
Saturated within auto integration window (code 4)								
Ag 328.068†	586.0						22.98	3.92%
Al 308.215†	-235.8	-0.0622	mg/L	0.00601	-62.20	µg/L	6.007	9.66%
QC value less than the lower limit for Al 308.215 Recovery = -1.56%								
As 188.979†	-0.2	-0.0005	mg/L	0.01019	-0.5403	µg/L	10.19374	>999.9%
QC value less than the lower limit for As 188.979 Recovery = -0.01%								
B 249.677†	275.3	0.0227	mg/L	0.00397	22.66	µg/L	3.967	17.51%
QC value less than the lower limit for B 249.677 Recovery = 0.57%								
Ba 233.527†	12.0	0.0007	mg/L	0.00052	0.7160	µg/L	0.51502	71.93%
QC value less than the lower limit for Ba 233.527 Recovery = 0.02%								
Be 313.107†	381.2	0.0005	mg/L	0.00018	0.5329	µg/L	0.18363	34.46%
QC value less than the lower limit for Be 313.107 Recovery = 0.01%								
Ca 317.933†	3155.1	0.0792	mg/L	0.00257	79.16	µg/L	2.569	3.25%
QC value less than the lower limit for Ca 317.933 Recovery = 1.98%								
Cd 214.440†	48.4	0.0014	mg/L	0.00066	1.364	µg/L	0.6602	48.41%
QC value less than the lower limit for Cd 214.440 Recovery = 0.03%								
Co 228.616†	24.3	0.0040	mg/L	0.00306	4.040	µg/L	3.0567	75.65%
QC value less than the lower limit for Co 228.616 Recovery = 0.10%								
Cr 205.560†	5.0	0.0009	mg/L	0.00050	0.8769	µg/L	0.50196	57.24%
QC value less than the lower limit for Cr 205.560 Recovery = 0.02%								
Cu 327.393†	146.8	0.0045	mg/L	0.00050	4.514	µg/L	0.5046	11.18%
QC value less than the lower limit for Cu 327.393 Recovery = 0.11%								
Fe 238.204†	35.4	0.0014	mg/L	0.00102	1.380	µg/L	1.0233	74.16%

	QC value less than the lower limit for Fe 238.204 Recovery = 0.03%						
K 766.490†	377.4	0.0528	mg/L	0.04352	52.76	µg/L	43.518 82.49%
	QC value less than the lower limit for K 766.490 Recovery = 0.13%						
Mg 279.077†	-43.1	-0.0118	mg/L	0.00833	-11.78	µg/L	8.332 70.72%
	QC value less than the lower limit for Mg 279.077 Recovery = -0.29%						
Mn 257.610†	180.7	0.0014	mg/L	0.00082	1.422	µg/L	0.8229 57.88%
	QC value less than the lower limit for Mn 257.610 Recovery = 0.04%						
Mo 202.031†	5.8	0.0018	mg/L	0.00105	1.805	µg/L	1.0525 58.30%
	QC value less than the lower limit for Mo 202.031 Recovery = 0.05%						
Na 589.592†	404.8	0.0232	mg/L	0.01163	23.20	µg/L	11.625 50.11%
	QC value less than the lower limit for Na 589.592 Recovery = 0.58%						
Ni 231.604†	-1.0	-0.0002	mg/L	0.00057	-0.1555	µg/L	0.56503 363.28%
	QC value less than the lower limit for Ni 231.604 Recovery = -0.00%						
Pb 220.353†	12.7	0.0087	mg/L	0.00837	8.693	µg/L	8.3663 96.24%
	QC value less than the lower limit for Pb 220.353 Recovery = 0.22%						
Sb 206.836†	23.4	0.0381	mg/L	0.02772	38.05	µg/L	27.716 72.84%
	QC value less than the lower limit for Sb 206.836 Recovery = 0.95%						
Se 196.026†	6.9	0.0137	mg/L	0.01205	13.68	µg/L	12.050 88.07%
	QC value less than the lower limit for Se 196.026 Recovery = 0.34%						
Sn 189.927†	1.3	0.0029	mg/L	0.00315	2.853	µg/L	3.1450 110.22%
Ti 334.940†	119.1	0.0008	mg/L	0.00044	0.7648	µg/L	0.44483 58.16%
	QC value less than the lower limit for Ti 334.940 Recovery = 0.02%						
Tl 190.801†	0.8	0.0094	mg/L	0.03568	9.433	µg/L	35.6844 378.28%
	QC value less than the lower limit for Tl 190.801 Recovery = 0.24%						
V 292.402†	20.3	0.0006	mg/L	0.00142	0.5824	µg/L	1.42161 244.09%
	QC value less than the lower limit for V 292.402 Recovery = 0.01%						
Zn 206.200†	44.7	0.0049	mg/L	0.00214	4.856	µg/L	2.1370 44.01%
	QC value less than the lower limit for Zn 206.200 Recovery = 0.12%						
Li 670.784†	27.1	0.0001	mg/L	0.00077	0.1399	µg/L	0.77255 552.21%
	QC value less than the lower limit for Li 670.784 Recovery = 0.00%						
Sr 421.552†	239.0	0.0002	mg/L	0.00021	0.1960	µg/L	0.21138 107.83%
	QC value less than the lower limit for Sr 421.552 Recovery = 0.00%						

QC Failed. Continue with analysis.
User canceled analysis.

Analysis Begun

Start Time: 2/13/2012 9:53:48 AM **Plasma On Time: 2/13/2012 7:51:52 AM**
Logged In Analyst: Optima **Technique: ICP Continuous**
Spectrometer Model: Optima 3300 DV, S/N 069N9033001Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\BA20301.sif
Batch ID: BB20907
Results Data Set: DV120213
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 8 **Autosampler Location: 10**
Sample ID: SCV@LVM **Date Collected: 2/13/2012 9:53:48 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

made wrong Remake RR

Mean Data: SCV@LVM

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	629510.3	98.80	%	0.719				0.73%
Ag 328.068†	102231.8						1886.20	1.85%
Al 308.215†	15690.3	4.129	mg/L	0.0442	4129	µg/L	44.2	1.07%
	QC value within limits for Al 308.215 Recovery = 103.23%							
As 188.979†	1718.2	4.136	mg/L	0.0262	4136	µg/L	26.2	0.63%
	QC value within limits for As 188.979 Recovery = 103.41%							
B 249.677†	54958.1	4.518	mg/L	0.0205	4518	µg/L	20.5	0.45%
	QC value greater than the upper limit for B 249.677 Recovery = 112.96%							
Ba 233.527†	71124.8	4.250	mg/L	0.0179	4250	µg/L	17.9	0.42%
	QC value greater than the upper limit for Ba 233.527 Recovery = 106.26%							
Be 313.107†	2984087.4	4.171	mg/L	0.0483	4171	µg/L	48.3	1.16%
	QC value within limits for Be 313.107 Recovery = 104.27%							
Ca 317.933†	168847.6	4.236	mg/L	0.0231	4236	µg/L	23.1	0.55%
	QC value greater than the upper limit for Ca 317.933 Recovery = 105.90%							

Cd 214.440†	148904.4	4.163 mg/L	0.0252	4163 µg/L	25.2	0.61%
QC value within limits for Cd 214.440 Recovery = 104.08%						
Co 228.616†	25760.8	4.290 mg/L	0.0399	4290 µg/L	39.9	0.93%
QC value greater than the upper limit for Co 228.616 Recovery = 107.24%						
Cr 205.560†	24359.7	4.250 mg/L	0.0483	4250 µg/L	48.3	1.14%
QC value greater than the upper limit for Cr 205.560 Recovery = 106.25%						
Cu 327.393†	139925.6	4.307 mg/L	0.0179	4307 µg/L	17.9	0.41%
QC value greater than the upper limit for Cu 327.393 Recovery = 107.67%						
Fe 238.204†	109168.3	4.253 mg/L	0.0219	4253 µg/L	21.9	0.52%
QC value greater than the upper limit for Fe 238.204 Recovery = 106.32%						
K 766.490†	293404.9	41.01 mg/L	0.210	41010 µg/L	209.8	0.51%
QC value within limits for K 766.490 Recovery = 102.52%						
Mg 279.077†	15475.0	4.226 mg/L	0.0399	4226 µg/L	39.9	0.94%
QC value greater than the upper limit for Mg 279.077 Recovery = 105.66%						
Mn 257.610†	541040.6	4.256 mg/L	0.0190	4256 µg/L	19.0	0.45%
QC value greater than the upper limit for Mn 257.610 Recovery = 106.40%						
Mo 202.031†	13454.4	4.215 mg/L	0.0520	4215 µg/L	52.0	1.23%
QC value greater than the upper limit for Mo 202.031 Recovery = 105.37%						
Na 589.592†	77730.9	4.455 mg/L	0.0280	4455 µg/L	28.0	0.63%
QC value greater than the upper limit for Na 589.592 Recovery = 111.38%						
Ni 231.604†	28920.7	4.286 mg/L	0.0384	4286 µg/L	38.4	0.90%
QC value greater than the upper limit for Ni 231.604 Recovery = 107.14%						
Pb 220.353†	6019.3	4.127 mg/L	0.0195	4127 µg/L	19.5	0.47%
QC value within limits for Pb 220.353 Recovery = 103.18%						
Sb 206.836†	2724.6	4.342 mg/L	0.0269	4342 µg/L	26.9	0.62%
QC value greater than the upper limit for Sb 206.836 Recovery = 108.56%						
Se 196.026†	2100.1	4.164 mg/L	0.0173	4164 µg/L	17.3	0.42%
QC value within limits for Se 196.026 Recovery = 104.10%						
Sn 189.927†	-7.2	-0.0221 mg/L	0.00616	-22.10 µg/L	6.164	27.89%
Ti 334.940†	649781.4	4.173 mg/L	0.0195	4173 µg/L	19.5	0.47%
QC value within limits for Ti 334.940 Recovery = 104.33%						
Tl 190.801†	384.8	4.218 mg/L	0.0426	4218 µg/L	42.6	1.01%
QC value greater than the upper limit for Tl 190.801 Recovery = 105.46%						
V 292.402†	143598.5	4.113 mg/L	0.0182	4113 µg/L	18.2	0.44%
QC value within limits for V 292.402 Recovery = 102.83%						
Zn 206.200†	39494.5	4.278 mg/L	0.0299	4278 µg/L	29.9	0.70%
QC value greater than the upper limit for Zn 206.200 Recovery = 106.94%						
Li 670.784†	780903.4	4.031 mg/L	0.0163	4031 µg/L	16.3	0.40%
QC value within limits for Li 670.784 Recovery = 100.78%						
Sr 421.552†	5108088.0	4.190 mg/L	0.0577	4190 µg/L	57.7	1.38%
QC value within limits for Sr 421.552 Recovery = 104.74%						

QC Failed. Continue with analysis.

Sequence No.: 9
Sample ID: IFA@1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 2/13/2012 9:57:57 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: IFA@1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	619087.9	97.17	%	0.162				0.17%
Ag 328.068†	3610.7						1495.99	41.43%
Unable to evaluate QC.								
Al 308.215†	974820.2	256.5	mg/L	0.18	256500	µg/L	185.0	0.07%
QC value within limits for Al 308.215 Recovery = 102.61%								
As 188.979†	29.4	0.0959	mg/L	0.00491	95.93	µg/L	4.910	5.12%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	314.0	0.0258	mg/L	0.00347	25.84	µg/L	3.465	13.41%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	62.9	0.0038	mg/L	0.00075	3.761	µg/L	0.7523	20.00%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	245.7	0.0003	mg/L	0.00025	0.3462	µg/L	0.24937	72.04%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	10317879.1	258.9	mg/L	0.46	258900	µg/L	463.6	0.18%
QC value within limits for Ca 317.933 Recovery = 103.54%								
Cd 214.440†	1388.7	-0.0025	mg/L	0.00019	-2.489	µg/L	0.1910	7.67%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	223.1	0.0372	mg/L	0.00173	37.15	µg/L	1.732	4.66%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 205.560†	81.4	-0.0104	mg/L	0.00059	-10.44	µg/L	0.592 5.67%
QC value less than the lower limit for Cr 205.560 Recovery = Not calculated							
Cu 327.393†	-112.2	-0.0231	mg/L	0.00062	-23.12	µg/L	0.624 2.70%
QC value within limits for Cu 327.393 Recovery = Not calculated							
Fe 238.204†	109.3	0.0043	mg/L	0.00008	4.259	µg/L	0.0801 1.88%
QC value within limits for Fe 238.204 Recovery = Not calculated							
K 766.490†	565.9	0.0791	mg/L	0.01436	79.10	µg/L	14.357 18.15%
QC value within limits for K 766.490 Recovery = Not calculated							
Mg 279.077†	-24.3	-0.0066	mg/L	0.00495	-6.649	µg/L	4.9463 74.39%
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	381.8	0.0030	mg/L	0.00016	3.003	µg/L	0.1578 5.25%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	1.0	0.0003	mg/L	0.00177	0.3083	µg/L	1.76601 572.73%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592†	321.6	0.0184	mg/L	0.00070	18.43	µg/L	0.704 3.82%
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	332552.4	49.28	mg/L	0.054	49280	µg/L	53.8 0.11%
QC value within limits for Ni 231.604 Recovery = 98.56%							
Pb 220.353†	94.7	-0.0001	mg/L	0.00095	-0.1112	µg/L	0.94945 854.21%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	218.3	0.0050	mg/L	0.00627	5.040	µg/L	6.2725 124.45%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	78.2	0.1551	mg/L	0.00877	155.1	µg/L	8.77 5.65%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	135.2	-0.0568	mg/L	0.00131	-56.83	µg/L	1.313 2.31%
Ti 334.940†	271.1	0.0017	mg/L	0.00036	1.741	µg/L	0.3578 20.55%
Tl 190.801†	84.9	0.1149	mg/L	0.00278	114.9	µg/L	2.78 2.42%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	109.6	0.0031	mg/L	0.00058	3.139	µg/L	0.5772 18.39%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.200†	234.0	-0.0003	mg/L	0.00041	-0.3242	µg/L	0.41467 127.90%
QC value within limits for Zn 206.200 Recovery = Not calculated							
Li 670.784†	629.0	0.0032	mg/L	0.00047	3.247	µg/L	0.4734 14.58%
QC value within limits for Li 670.784 Recovery = Not calculated							
Sr 421.552†	2383.6	0.0020	mg/L	0.00029	1.955	µg/L	0.2904 14.85%
QC value within limits for Sr 421.552 Recovery = Not calculated							

QC Failed. Continue with analysis.

Sequence No.: 10
Sample ID: IFA@2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 2/13/2012 10:03:29 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: IFA@2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	599120.1	94.03	%	0.579				0.62%
Ag 328.068†	-6999.4						102.32	1.46%
Unable to evaluate QC.								
Al 308.215†	30.6	0.0080	mg/L	0.01036	8.049	µg/L	10.3641	128.76%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	2.8	0.0919	mg/L	0.01346	91.87	µg/L	13.462	14.65%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-1588.7	-0.1308	mg/L	0.00247	-130.8	µg/L	2.47	1.89%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	1789.3	0.1069	mg/L	0.00073	106.9	µg/L	0.73	0.68%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	57.9	0.0001	mg/L	0.00007	0.0746	µg/L	0.07071	94.74%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	713.0	0.0179	mg/L	0.00517	17.89	µg/L	5.173	28.92%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 214.440†	288.6	-0.0018	mg/L	0.00014	-1.819	µg/L	0.1434	7.88%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	253.8	0.0423	mg/L	0.00108	42.27	µg/L	1.080	2.55%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	-181.3	0.0054	mg/L	0.00037	5.365	µg/L	0.3690	6.88%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 327.393†	72.0	0.0022	mg/L	0.00123	2.215	µg/L	1.2333	55.68%

QC value within limits for Cu 327.393 Recovery = Not calculated

Fe 238.204†	6331881.4	246.7 mg/L	0.68	246700 µg/L	677.4	0.27%
QC value within limits for Fe 238.204 Recovery = 98.67%						
K 766.490†	1553.1	0.2171 mg/L	0.02228	217.1 µg/L	22.28	10.27%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 279.077†	986657.7	269.5 mg/L	0.60	269500 µg/L	598.3	0.22%
QC value within limits for Mg 279.077 Recovery = 107.78%						
Mn 257.610†	1563.3	0.0123 mg/L	0.00015	12.30 µg/L	0.153	1.25%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	18.3	0.0057 mg/L	0.00202	5.743 µg/L	2.0244	35.25%
Na 589.592†	4594622.5	263.3 mg/L	1.06	263300 µg/L	1059.2	0.40%
QC value within limits for Na 589.592 Recovery = 105.33%						
Ni 231.604†	21.8	0.0032 mg/L	0.00162	3.235 µg/L	1.6164	49.96%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	23.5	0.0285 mg/L	0.00717	28.48 µg/L	7.175	25.19%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	145.4	-0.0192 mg/L	0.01154	-19.15 µg/L	11.540	60.26%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	67.6	0.1341 mg/L	0.01221	134.1 µg/L	12.21	9.11%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	31.5	0.0711 mg/L	0.00801	71.10 µg/L	8.014	11.27%
Ti 334.940†	963.0	0.0062 mg/L	0.00019	6.185 µg/L	0.1920	3.10%
Tl 190.801†	88.0	0.0466 mg/L	0.02643	46.61 µg/L	26.430	56.71%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	1131.5	0.0324 mg/L	0.00096	32.41 µg/L	0.958	2.95%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	59.0	0.0064 mg/L	0.00027	6.421 µg/L	0.2651	4.13%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Li 670.784†	1129.8	0.0058 mg/L	0.00030	5.832 µg/L	0.3007	5.16%
QC value within limits for Li 670.784 Recovery = Not calculated						
Sr 421.552†	434.4	0.0004 mg/L	0.00003	0.3563 µg/L	0.03139	8.81%
QC value within limits for Sr 421.552 Recovery = Not calculated						

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 11
Sample ID: IFA@3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 2/13/2012 10:09:06 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: IFA@3

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	639055.6	100.3	%	0.55				0.54%
Ag 328.068†	880.0						2.05	0.23%
Unable to evaluate QC.								
Al 308.215†	223.7	0.0589	mg/L	0.00447	58.92	µg/L	4.472	7.59%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-6.4	-0.3228	mg/L	0.00938	-322.8	µg/L	9.38	2.91%
QC value less than the lower limit for As 188.979 Recovery = Not calculated								
B 249.677†	320.8	-0.0250	mg/L	0.00051	-25.00	µg/L	0.514	2.06%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	22.0	0.0013	mg/L	0.00034	1.315	µg/L	0.3418	25.99%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-3907.9	-0.0002	mg/L	0.00001	-0.2148	µg/L	0.01151	5.36%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	768.3	0.0193	mg/L	0.00140	19.28	µg/L	1.397	7.25%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 214.440†	-1478.8	-0.0136	mg/L	0.00036	-13.59	µg/L	0.359	2.64%
QC value less than the lower limit for Cd 214.440 Recovery = Not calculated								
Co 228.616†	32.8	0.0055	mg/L	0.00044	5.458	µg/L	0.4433	8.12%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	150302.3	26.23	mg/L	0.102	26230	µg/L	102.3	0.39%
QC value less than the lower limit for Cr 205.560 Recovery = 52.46%								
Cu 327.393†	1583238.5	48.73	mg/L	0.074	48730	µg/L	74.4	0.15%
QC value greater than the upper limit for Cu 327.393 Recovery = 243.66%								
Fe 238.204†	307.1	0.0120	mg/L	0.00481	11.97	µg/L	4.807	40.17%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	415.0	0.0580	mg/L	0.00053	58.01	µg/L	0.528	0.91%
QC value within limits for K 766.490 Recovery = Not calculated								

Mg 279.077†	-1300.5	-0.3552	mg/L	0.01193	-355.2	µg/L	11.93	3.36%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	6534621.7	51.40	mg/L	0.132	51400	µg/L	131.7	0.26%
QC value within limits for Mn 257.610 Recovery = 102.81%								
Mo 202.031†	10.3	0.0032	mg/L	0.00112	3.242	µg/L	1.1186	34.51%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	1685.7	0.0966	mg/L	0.01845	96.61	µg/L	18.452	19.10%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	32.0	0.0047	mg/L	0.00120	4.739	µg/L	1.1965	25.25%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	125.6	0.0757	mg/L	0.00566	75.73	µg/L	5.661	7.48%
QC value greater than the upper limit for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	289.4	0.0253	mg/L	0.01538	25.34	µg/L	15.381	60.71%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	32.1	0.0636	mg/L	0.00587	63.60	µg/L	5.871	9.23%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	8.5	0.0192	mg/L	0.00630	19.17	µg/L	6.304	32.89%
Ti 334.940†	1853.8	0.0119	mg/L	0.00012	11.91	µg/L	0.115	0.97%
Tl 190.801†	11.4	0.1261	mg/L	0.02139	126.1	µg/L	21.39	16.97%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	249.9	0.0072	mg/L	0.00108	7.158	µg/L	1.0821	15.12%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	278.2	0.0118	mg/L	0.00077	11.79	µg/L	0.771	6.54%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Li 670.784†	428.6	0.0022	mg/L	0.00031	2.212	µg/L	0.3069	13.87%
QC value within limits for Li 670.784 Recovery = Not calculated								
Sr 421.552†	-151.7	-0.0001	mg/L	0.00004	-0.1244	µg/L	0.04351	34.96%
QC value within limits for Sr 421.552 Recovery = Not calculated								

QC Failed. Continue with analysis.
User canceled analysis.

Analysis Begun

Start Time: 2/13/2012 10:14:17 AM **Plasma On Time: 2/13/2012 7:51:52 AM**
Logged In Analyst: Optima **Technique: ICP Continuous**
Spectrometer Model: Optima 3300 DV, S/N 069N9033001Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\BA20301.sif
Batch ID: BB20907
Results Data Set: DV120213
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 8 **Autosampler Location: 10**
Sample ID: SCV@LVM **Date Collected: 2/13/2012 10:14:17 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: SCV@LVM

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	634854.9	99.64	%	0.213				0.21%
Ag 328.068†	95251.2						310.42	0.33%
Al 308.215†	15051.2	3.961	mg/L	0.0365	3961	µg/L	36.5	0.92%
QC value within limits for Al 308.215 Recovery = 99.02%								
As 188.979†	1696.5	4.084	mg/L	0.0432	4084	µg/L	43.2	1.06%
QC value within limits for As 188.979 Recovery = 102.09%								
B 249.677†	51660.0	4.247	mg/L	0.0087	4247	µg/L	8.7	0.21%
QC value greater than the upper limit for B 249.677 Recovery = 106.18%								
Ba 233.527†	69572.2	4.157	mg/L	0.0165	4157	µg/L	16.5	0.40%
QC value within limits for Ba 233.527 Recovery = 103.94%								
Be 313.107†	2914593.2	4.074	mg/L	0.0176	4074	µg/L	17.6	0.43%
QC value within limits for Be 313.107 Recovery = 101.85%								
Ca 317.933†	166105.0	4.167	mg/L	0.0100	4167	µg/L	10.0	0.24%
QC value within limits for Ca 317.933 Recovery = 104.18%								
Cd 214.440†	146207.0	4.088	mg/L	0.0171	4088	µg/L	17.1	0.42%
QC value within limits for Cd 214.440 Recovery = 102.19%								
Co 228.616†	25156.1	4.189	mg/L	0.0341	4189	µg/L	34.1	0.81%
QC value within limits for Co 228.616 Recovery = 104.73%								

Cr 205.560†	23817.1	4.155 mg/L	0.0284	4155 µg/L	28.4	0.68%
QC value within limits for Cr 205.560 Recovery = 103.88%						
Cu 327.393†	137484.8	4.231 mg/L	0.0032	4231 µg/L	3.2	0.07%
QC value greater than the upper limit for Cu 327.393 Recovery = 105.79% NR						
Fe 238.204†	107073.7	4.171 mg/L	0.0129	4171 µg/L	12.9	0.31%
QC value within limits for Fe 238.204 Recovery = 104.28%						
K 766.490†	288771.5	40.36 mg/L	0.044	40360 µg/L	43.5	0.11%
QC value within limits for K 766.490 Recovery = 100.91%						
Mg 279.077†	15148.9	4.137 mg/L	0.0341	4137 µg/L	34.1	0.82%
QC value within limits for Mg 279.077 Recovery = 103.43%						
Mn 257.610†	530659.9	4.174 mg/L	0.0080	4174 µg/L	8.0	0.19%
QC value within limits for Mn 257.610 Recovery = 104.36%						
Mo 202.031†	13144.8	4.118 mg/L	0.0474	4118 µg/L	47.4	1.15%
QC value within limits for Mo 202.031 Recovery = 102.94%						
Na 589.592†	73412.2	4.208 mg/L	0.0026	4208 µg/L	2.6	0.06%
QC value greater than the upper limit for Na 589.592 Recovery = 105.19% OK						
Ni 231.604†	28312.0	4.195 mg/L	0.0350	4195 µg/L	35.0	0.83%
QC value within limits for Ni 231.604 Recovery = 104.89%						
Pb 220.353†	5905.5	4.049 mg/L	0.0277	4049 µg/L	27.7	0.68%
QC value within limits for Pb 220.353 Recovery = 101.23%						
Sb 206.836†	2665.4	4.248 mg/L	0.0239	4248 µg/L	23.9	0.56%
QC value greater than the upper limit for Sb 206.836 Recovery = 106.21% NR						
Se 196.026†	2058.2	4.081 mg/L	0.0579	4081 µg/L	57.9	1.42%
QC value within limits for Se 196.026 Recovery = 102.02%						
Sn 189.927†	-6.5	-0.0205 mg/L	0.00468	-20.51 µg/L	4.683	22.83%
Ti 334.940†	635065.1	4.079 mg/L	0.0055	4079 µg/L	5.5	0.14%
QC value within limits for Ti 334.940 Recovery = 101.97%						
Tl 190.801†	379.1	4.157 mg/L	0.0232	4157 µg/L	23.2	0.56%
QC value within limits for Tl 190.801 Recovery = 103.91%						
V 292.402†	141207.4	4.045 mg/L	0.0064	4045 µg/L	6.4	0.16%
QC value within limits for V 292.402 Recovery = 101.11%						
Zn 206.200†	38846.9	4.207 mg/L	0.0349	4207 µg/L	34.9	0.83%
QC value greater than the upper limit for Zn 206.200 Recovery = 105.19% OK						
Li 670.784†	768675.8	3.968 mg/L	0.0081	3968 µg/L	8.1	0.20%
QC value within limits for Li 670.784 Recovery = 99.20%						
Sr 421.552†	4969628.2	4.076 mg/L	0.0244	4076 µg/L	24.4	0.60%
QC value within limits for Sr 421.552 Recovery = 101.90%						

QC Failed. Continue with analysis.
User canceled analysis.

Analysis Begun

Start Time: 2/13/2012 10:18:44 AM **Plasma On Time: 2/13/2012 7:51:52 AM**
Logged In Analyst: Optima **Technique: ICP Continuous**
Spectrometer Model: Optima 3300 DV, S/N 069N9033001Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\BA20301.sif
Batch ID: BB20907
Results Data Set: DV120213
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 12 **Autosampler Location: 17**
Sample ID: BB20907-BLK2 **Date Collected: 2/13/2012 10:18:44 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: BB20907-BLK2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	635687.9	99.77	%	0.917				0.92%
Ag 328.068†	1929.5						636.09	32.97%
Al 308.215†	-18.3	-0.0048	mg/L	0.00467	-4.822	µg/L	4.6699	96.85%
As 188.979†	1.7	0.0042	mg/L	0.00153	4.160	µg/L	1.5319	36.82%
B 249.677†	290.2	0.0239	mg/L	0.00131	23.89	µg/L	1.305	5.46%
Ba 233.527†	9.1	0.0005	mg/L	0.00008	0.5437	µg/L	0.08084	14.87%
Be 313.107†	340.9	0.0005	mg/L	0.00004	0.4766	µg/L	0.04130	8.67%
Ca 317.933†	-12.5	-0.0003	mg/L	0.00077	-0.3148	µg/L	0.76968	244.52%
Cd 214.440†	12.9	0.0004	mg/L	0.00007	0.3622	µg/L	0.06998	19.32%

Co 228.616†	-2.8	-0.0005	mg/L	0.00086	-0.4688	µg/L	0.86137 183.76%
Cr 205.560†	4.4	0.0008	mg/L	0.00083	0.7716	µg/L	0.83390 108.08%
Cu 327.393†	126.1	0.0039	mg/L	0.00072	3.881	µg/L	0.7210 18.58%
Fe 238.204†	25.4	0.0010	mg/L	0.00017	0.9893	µg/L	0.17488 17.68%
K 766.490†	316.8	0.0443	mg/L	0.01356	44.28	µg/L	13.564 30.64%
Mg 279.077†	7.5	0.0020	mg/L	0.00191	2.048	µg/L	1.9107 93.31%
Mn 257.610†	43.4	0.0003	mg/L	0.00009	0.3414	µg/L	0.09238 27.06%
Mo 202.031†	6.1	0.0019	mg/L	0.00066	1.920	µg/L	0.6600 34.37%
Na 589.592†	194.6	0.0112	mg/L	0.00198	11.15	µg/L	1.983 17.77%
Ni 231.604†	-0.2	0.0000	mg/L	0.00028	-0.0307	µg/L	0.27838 905.44%
Pb 220.353†	-0.6	-0.0004	mg/L	0.00263	-0.4148	µg/L	2.62811 633.51%
Sb 206.836†	0.3	0.0004	mg/L	0.01143	0.4443	µg/L	11.43060 >999.9%
Se 196.026†	7.4	0.0148	mg/L	0.00520	14.76	µg/L	5.199 35.22%
Sn 189.927†	0.9	0.0021	mg/L	0.00353	2.099	µg/L	3.5275 168.02%
Ti 334.940†	101.7	0.0007	mg/L	0.00026	0.6534	µg/L	0.26180 40.07%
Tl 190.801†	-2.0	-0.0224	mg/L	0.02080	-22.39	µg/L	20.805 92.94%
V 292.402†	14.7	0.0004	mg/L	0.00026	0.4218	µg/L	0.26299 62.35%
Zn 206.200†	6.3	0.0007	mg/L	0.00031	0.6800	µg/L	0.30596 44.99%
Li 670.784†	314.0	0.0016	mg/L	0.00047	1.621	µg/L	0.4671 28.81%
Sr 421.552†	431.3	0.0004	mg/L	0.00011	0.3538	µg/L	0.10761 30.42%

Sequence No.: 13 **Autosampler Location: 18**
Sample ID: BB20907-BS2 **Date Collected: 2/13/2012 10:22:27 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: BB20907-BS2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	634601.7	99.60	%	0.744				0.75%
Ag 328.068†	2803.3						105.86	3.78%
Al 308.215†	7670.1	2.011	mg/L	0.0217	2011	µg/L	21.7	1.08%
As 188.979†	214.8	0.5214	mg/L	0.00707	521.4	µg/L	7.07	1.36%
B 249.677†	6368.0	0.5235	mg/L	0.00492	523.5	µg/L	4.92	0.94%
Ba 233.527†	34471.6	2.060	mg/L	0.0166	2060	µg/L	16.6	0.80%
Be 313.107†	37287.5	0.0522	mg/L	0.00047	52.21	µg/L	0.473	0.91%
Ca 317.933†	409547.8	10.27	mg/L	0.034	10270	µg/L	33.8	0.33%
Cd 214.440†	1782.4	0.0497	mg/L	0.00033	49.70	µg/L	0.328	0.66%
Co 228.616†	3066.8	0.5107	mg/L	0.00454	510.7	µg/L	4.54	0.89%
Cr 205.560†	2980.7	0.5207	mg/L	0.00348	520.7	µg/L	3.48	0.67%
Cu 327.393†	17109.9	0.5259	mg/L	0.00495	525.9	µg/L	4.95	0.94%
Fe 238.204†	132340.7	5.156	mg/L	0.0386	5156	µg/L	38.6	0.75%
K 766.490†	144938.4	20.26	mg/L	0.031	20260	µg/L	30.9	0.15%
Mg 279.077†	37842.6	10.33	mg/L	0.086	10330	µg/L	86.1	0.83%
Mn 257.610†	66173.8	0.5205	mg/L	0.00436	520.5	µg/L	4.36	0.84%
Mo 202.031†	1684.7	0.5277	mg/L	0.00441	527.7	µg/L	4.41	0.84%
Na 589.592†	181762.0	10.42	mg/L	0.034	10420	µg/L	33.9	0.33%
Ni 231.604†	3502.9	0.5191	mg/L	0.00377	519.1	µg/L	3.77	0.73%
Pb 220.353†	720.5	0.4941	mg/L	0.01044	494.1	µg/L	10.44	2.11%
Sb 206.836†	341.0	0.5357	mg/L	0.00494	535.7	µg/L	4.94	0.92%
Se 196.026†	266.0	0.5274	mg/L	0.00306	527.4	µg/L	3.06	0.58%
Sn 189.927†	242.5	0.5339	mg/L	0.00273	533.9	µg/L	2.73	0.51%
Ti 334.940†	82004.1	0.5267	mg/L	0.00409	526.7	µg/L	4.09	0.78%
Tl 190.801†	50.6	0.5246	mg/L	0.02900	524.6	µg/L	29.00	5.53%
V 292.402†	17933.8	0.5137	mg/L	0.00403	513.7	µg/L	4.03	0.78%
Zn 206.200†	4802.3	0.5200	mg/L	0.00295	520.0	µg/L	2.95	0.57%
Li 670.784†	97034.4	0.5009	mg/L	0.00265	500.9	µg/L	2.65	0.53%
Sr 421.552†	624984.0	0.5126	mg/L	0.00218	512.6	µg/L	2.18	0.43%

Use AS SCV ✓ 105%

Use AS SCV 107%

Sequence No.: 14 **Autosampler Location: 19**
Sample ID: 1202003-32 **Date Collected: 2/13/2012 10:26:15 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: 1202003-32

	Mean Corrected	Calib	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 360.073	638456.0	100.2	%	0.40				0.40%
Ag 328.068†	98.3						29.06	29.55%
Al 308.215†	-17.4	-0.0200	mg/L	0.00524	-19.97	µg/L	5.237	26.23%
As 188.979†	1.7	0.0053	mg/L	0.00511	5.318	µg/L	5.1076	96.04%
B 249.677†	371.6	0.0306	mg/L	0.00042	30.58	µg/L	0.423	1.38%
Ba 233.527†	1950.9	0.1166	mg/L	0.00048	116.6	µg/L	0.48	0.41%
Be 313.107†	65.3	0.0001	mg/L	0.00003	0.0918	µg/L	0.02615	28.50%
Ca 317.933†	637532.2	15.99	mg/L	0.018	15990	µg/L	17.6	0.11%
Cd 214.440†	-6.4	-0.0001	mg/L	0.00021	-0.1491	µg/L	0.20654	138.56%
Co 228.616†	-6.1	-0.0010	mg/L	0.00092	-1.021	µg/L	0.9247	90.56%
Cr 205.560†	14.4	0.0025	mg/L	0.00008	2.520	µg/L	0.0752	2.99%
Cu 327.393†	3122.1	0.0949	mg/L	0.00071	94.88	µg/L	0.712	0.75%
Fe 238.204†	1122.8	0.0437	mg/L	0.00014	43.74	µg/L	0.135	0.31%
K 766.490†	5945.3	0.8310	mg/L	0.01030	831.0	µg/L	10.30	1.24%
Mg 279.077†	11931.4	3.258	mg/L	0.0108	3258	µg/L	10.8	0.33%
Mn 257.610†	64.8	0.0005	mg/L	0.00005	0.5097	µg/L	0.05452	10.70%
Mo 202.031†	4.1	0.0013	mg/L	0.00030	1.296	µg/L	0.3035	23.42%
Na 589.592†	97528.0	5.590	mg/L	0.0152	5590	µg/L	15.2	0.27%
Ni 231.604†	-4.9	-0.0007	mg/L	0.00112	-0.7296	µg/L	1.12358	154.00%
Pb 220.353†	-5.5	-0.0038	mg/L	0.00470	-3.801	µg/L	4.6958	123.52%
Sb 206.836†	1.7	0.0015	mg/L	0.00932	1.460	µg/L	9.3217	638.36%
Se 196.026†	5.7	0.0114	mg/L	0.01008	11.39	µg/L	10.076	88.46%
Sn 189.927†	12.3	0.0055	mg/L	0.00365	5.515	µg/L	3.6545	66.27%
Ti 334.940†	18.2	0.0001	mg/L	0.00012	0.1171	µg/L	0.12393	105.86%
Tl 190.801†	3.8	0.0371	mg/L	0.01812	37.15	µg/L	18.119	48.78%
V 292.402†	16.7	0.0005	mg/L	0.00018	0.4786	µg/L	0.17904	37.41%
Zn 206.200†	16.5	0.0018	mg/L	0.00018	1.788	µg/L	0.1799	10.06%
Li 670.784†	1082.0	0.0056	mg/L	0.00041	5.586	µg/L	0.4075	7.30%
Sr 421.552†	102919.1	0.0844	mg/L	0.00037	84.41	µg/L	0.374	0.44%

Sequence No.: 15
Sample ID: 1202003-33
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 2/13/2012 10:29:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-33

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	636491.2	99.90	%	0.316				0.32%
Ag 328.068†	102.2						21.19	20.74%
Al 308.215†	-29.4	-0.0078	mg/L	0.00647	-7.750	µg/L	6.4654	83.42%
As 188.979†	0.7	0.0018	mg/L	0.01061	1.758	µg/L	10.6128	603.65%
B 249.677†	118.7	0.0098	mg/L	0.00164	9.770	µg/L	1.6433	16.82%
Ba 233.527†	3.5	0.0002	mg/L	0.00007	0.2113	µg/L	0.07074	33.47%
Be 313.107†	63.8	0.0001	mg/L	0.00002	0.0893	µg/L	0.02289	25.64%
Ca 317.933†	192.0	0.0048	mg/L	0.00196	4.816	µg/L	1.9616	40.73%
Cd 214.440†	-2.2	-0.0001	mg/L	0.00012	-0.0584	µg/L	0.11632	199.15%
Co 228.616†	-8.3	-0.0014	mg/L	0.00006	-1.379	µg/L	0.0633	4.59%
Cr 205.560†	5.2	0.0009	mg/L	0.00077	0.9111	µg/L	0.77066	84.58%
Cu 327.393†	26.6	0.0008	mg/L	0.00083	0.8171	µg/L	0.82653	101.15%
Fe 238.204†	8.4	0.0003	mg/L	0.00026	0.3261	µg/L	0.26131	80.12%
K 766.490†	93.4	0.0131	mg/L	0.00154	13.06	µg/L	1.542	11.80%
Mg 279.077†	4.9	0.0013	mg/L	0.00219	1.335	µg/L	2.1949	164.45%
Mn 257.610†	-28.9	-0.0002	mg/L	0.00006	-0.2273	µg/L	0.05831	25.66%
Mo 202.031†	0.9	0.0003	mg/L	0.00136	0.2773	µg/L	1.35983	490.40%
Na 589.592†	170.1	0.0098	mg/L	0.00367	9.751	µg/L	3.6684	37.62%
Ni 231.604†	-3.3	-0.0005	mg/L	0.00078	-0.4872	µg/L	0.78408	160.93%
Pb 220.353†	0.6	0.0004	mg/L	0.00140	0.4243	µg/L	1.39536	328.89%
Sb 206.836†	-2.7	-0.0044	mg/L	0.00843	-4.370	µg/L	8.4283	192.86%
Se 196.026†	4.0	0.0080	mg/L	0.00390	7.979	µg/L	3.8955	48.82%
Sn 189.927†	2.7	0.0061	mg/L	0.00559	6.144	µg/L	5.5869	90.94%
Ti 334.940†	1.7	0.0000	mg/L	0.00008	0.0109	µg/L	0.08074	737.94%
Tl 190.801†	-1.9	-0.0215	mg/L	0.01640	-21.46	µg/L	16.402	76.44%
V 292.402†	14.5	0.0004	mg/L	0.00031	0.4141	µg/L	0.31480	76.03%
Zn 206.200†	-2.5	-0.0003	mg/L	0.00029	-0.2686	µg/L	0.29470	109.71%
Li 670.784†	48.2	0.0002	mg/L	0.00029	0.2491	µg/L	0.28586	114.77%
Sr 421.552†	5.0	0.0000	mg/L	0.00002	0.0041	µg/L	0.01671	409.89%

Sequence No.: 16
Sample ID: 1202003-34
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 2/13/2012 10:33:28 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-34

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 360.073	628868.1	98.70	%	0.470				0.48%
Ag 328.068†	100.9						5.57	5.52%
Al 308.215†	-14.5	-0.0038	mg/L	0.00839	-3.828	µg/L	8.3877	219.09%
As 188.979†	-1.9	-0.0045	mg/L	0.00578	-4.538	µg/L	5.7837	127.44%
B 249.677†	113.2	0.0093	mg/L	0.00042	9.317	µg/L	0.4182	4.49%
Ba 233.527†	2.8	0.0002	mg/L	0.00004	0.1656	µg/L	0.03973	23.99%
Be 313.107†	58.8	0.0001	mg/L	0.00003	0.0823	µg/L	0.02639	32.08%
Ca 317.933†	35.8	0.0009	mg/L	0.00122	0.8977	µg/L	1.22304	136.24%
Cd 214.440†	4.4	0.0001	mg/L	0.00022	0.1255	µg/L	0.22446	178.91%
Co 228.616†	-1.7	-0.0003	mg/L	0.00035	-0.2761	µg/L	0.34644	125.48%
Cr 205.560†	3.3	0.0006	mg/L	0.00069	0.5830	µg/L	0.69290	118.85%
Cu 327.393†	29.0	0.0009	mg/L	0.00030	0.8928	µg/L	0.30479	34.14%
Fe 238.204†	7.7	0.0003	mg/L	0.00050	0.2997	µg/L	0.50155	167.35%
K 766.490†	184.6	0.0258	mg/L	0.00141	25.80	µg/L	1.413	5.48%
Mg 279.077†	5.2	0.0014	mg/L	0.00323	1.422	µg/L	3.2296	227.05%
Mn 257.610†	-0.3	0.0000	mg/L	0.00007	-0.0022	µg/L	0.07277	>999.9%
Mo 202.031†	7.3	0.0023	mg/L	0.00103	2.288	µg/L	1.0349	45.23%
Na 589.592†	112.1	0.0064	mg/L	0.00185	6.426	µg/L	1.8524	28.82%
Ni 231.604†	-3.8	-0.0006	mg/L	0.00137	-0.5622	µg/L	1.37388	244.39%
Pb 220.353†	0.5	0.0004	mg/L	0.00967	0.3721	µg/L	9.66859	>999.9%
Sb 206.836†	2.6	0.0042	mg/L	0.00043	4.159	µg/L	0.4322	10.39%
Se 196.026†	1.7	0.0033	mg/L	0.00590	3.346	µg/L	5.9026	176.42%
Sn 189.927†	-0.3	-0.0007	mg/L	0.00594	-0.6898	µg/L	5.93584	860.55%
Ti 334.940†	33.3	0.0002	mg/L	0.00020	0.2136	µg/L	0.20109	94.16%
Tl 190.801†	-1.2	-0.0137	mg/L	0.02490	-13.72	µg/L	24.896	181.45%
V 292.402†	15.0	0.0004	mg/L	0.00015	0.4301	µg/L	0.14774	34.35%
Zn 206.200†	2.4	0.0003	mg/L	0.00002	0.2648	µg/L	0.01884	7.11%
Li 670.784†	123.1	0.0006	mg/L	0.00031	0.6357	µg/L	0.30885	48.58%
Sr 421.552†	-37.6	0.0000	mg/L	0.00003	-0.0309	µg/L	0.02884	93.44%

Sequence No.: 17
Sample ID: 1202003-35
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 2/13/2012 10:37:05 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-35

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 360.073	630178.6	98.91	%	0.432				0.44%
Ag 328.068†	-69.9						23.07	33.02%
Al 308.215†	28.7	-0.0152	mg/L	0.00674	-15.20	µg/L	6.739	44.33%
As 188.979†	43.4	0.0989	mg/L	0.00847	98.87	µg/L	8.474	8.57%
B 249.677†	1470.6	0.1201	mg/L	0.00392	120.1	µg/L	3.92	3.26%
Ba 233.527†	8112.1	0.4848	mg/L	0.00698	484.8	µg/L	6.98	1.44%
Be 313.107†	-6.7	0.0000	mg/L	0.00003	-0.0089	µg/L	0.02924	327.18%
Ca 317.933†	943817.9	23.68	mg/L	0.089	23680	µg/L	89.2	0.38%
Cd 214.440†	12.8	0.0002	mg/L	0.00027	0.1781	µg/L	0.27287	153.23%
Co 228.616†	5.1	0.0009	mg/L	0.00078	0.8568	µg/L	0.77714	90.71%
Cr 205.560†	13.5	0.0030	mg/L	0.00081	3.038	µg/L	0.8078	26.59%
Cu 327.393†	286.6	0.0070	mg/L	0.00086	7.022	µg/L	0.8626	12.28%
Fe 238.204†	116693.8	4.546	mg/L	0.0543	4546	µg/L	54.3	1.19%
K 766.490†	13271.6	1.855	mg/L	0.0230	1855	µg/L	23.0	1.24%
Mg 279.077†	14467.5	3.951	mg/L	0.0450	3951	µg/L	45.0	1.14%
Mn 257.610†	120335.4	0.9466	mg/L	0.01260	946.6	µg/L	12.60	1.33%
Mo 202.031†	8.4	0.0026	mg/L	0.00049	2.623	µg/L	0.4917	18.75%
Na 589.592†	935468.3	53.62	mg/L	0.217	53620	µg/L	217.0	0.40%
Ni 231.604†	-8.5	-0.0013	mg/L	0.00121	-1.267	µg/L	1.2054	95.16%
Pb 220.353†	-15.6	-0.0105	mg/L	0.00195	-10.46	µg/L	1.952	18.65%

Sb 206.836†	10.5	0.0118	mg/L	0.00398	11.83	µg/L	3.985	33.68%
Se 196.026†	4.1	0.0082	mg/L	0.00314	8.206	µg/L	3.1408	38.27%
Sn 189.927†	22.4	0.0175	mg/L	0.00999	17.49	µg/L	9.988	57.12%
Ti 334.940†	38.0	0.0002	mg/L	0.00007	0.2443	µg/L	0.07471	30.57%
Tl 190.801†	7.9	0.0716	mg/L	0.01972	71.64	µg/L	19.723	27.53%
V 292.402†	48.9	0.0014	mg/L	0.00019	1.400	µg/L	0.1894	13.53%
Zn 206.200†	13.9	0.0015	mg/L	0.00031	1.501	µg/L	0.3127	20.83%
Li 670.784†	22402.1	0.1156	mg/L	0.00201	115.6	µg/L	2.01	1.74%
Sr 421.552†	922416.3	0.7566	mg/L	0.00287	756.6	µg/L	2.87	0.38%

Sequence No.: 18
Sample ID: BB20907-DUP2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 2/13/2012 10:42:18 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20907-DUP2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	637421.8	100.0	%	1.04				1.04%
Ag 328.068†	-100.7						37.01	36.75%
Al 308.215†	10.8	-0.0201	mg/L	0.00980	-20.09	µg/L	9.801	48.78%
As 188.979†	41.0	0.0930	mg/L	0.00796	93.04	µg/L	7.961	8.56%
B 249.677†	1506.3	0.1230	mg/L	0.00245	123.0	µg/L	2.45	1.99%
Ba 233.527†	8244.2	0.4926	mg/L	0.00401	492.6	µg/L	4.01	0.81%
Be 313.107†	50.6	0.0001	mg/L	0.00001	0.0712	µg/L	0.01443	20.27%
Ca 317.933†	951200.9	23.86	mg/L	0.117	23860	µg/L	117.4	0.49%
Cd 214.440†	4.6	-0.0001	mg/L	0.00016	-0.0509	µg/L	0.15891	312.35%
Co 228.616†	-3.3	-0.0005	mg/L	0.00102	-0.5499	µg/L	1.01734	184.99%
Cr 205.560†	14.4	0.0032	mg/L	0.00059	3.209	µg/L	0.5913	18.42%
Cu 327.393†	359.6	0.0093	mg/L	0.00098	9.257	µg/L	0.9785	10.57%
Fe 238.204†	118247.5	4.607	mg/L	0.0389	4607	µg/L	38.9	0.85%
K 766.490†	13423.9	1.876	mg/L	0.0147	1876	µg/L	14.7	0.78%
Mg 279.077†	14589.2	3.984	mg/L	0.0437	3984	µg/L	43.7	1.10%
Mn 257.610†	121832.9	0.9584	mg/L	0.00672	958.4	µg/L	6.72	0.70%
Mo 202.031†	2.8	0.0009	mg/L	0.00124	0.8754	µg/L	1.23737	141.36%
Na 589.592†	942582.6	54.02	mg/L	0.285	54020	µg/L	285.4	0.53%
Ni 231.604†	-3.8	-0.0006	mg/L	0.00113	-0.5611	µg/L	1.13404	202.11%
Pb 220.353†	-20.8	-0.0140	mg/L	0.00842	-14.05	µg/L	8.419	59.94%
Sb 206.836†	5.1	0.0029	mg/L	0.00975	2.885	µg/L	9.7461	337.81%
Se 196.026†	7.8	0.0154	mg/L	0.00113	15.43	µg/L	1.129	7.31%
Sn 189.927†	23.2	0.0189	mg/L	0.00645	18.93	µg/L	6.452	34.08%
Ti 334.940†	12.3	0.0001	mg/L	0.00010	0.0793	µg/L	0.10140	127.91%
Tl 190.801†	6.2	0.0526	mg/L	0.01764	52.59	µg/L	17.639	33.54%
V 292.402†	37.1	0.0011	mg/L	0.00039	1.062	µg/L	0.3889	36.64%
Zn 206.200†	5.4	0.0006	mg/L	0.00024	0.5803	µg/L	0.24257	41.80%
Li 670.784†	22820.5	0.1178	mg/L	0.00049	117.8	µg/L	0.49	0.41%
Sr 421.552†	929958.1	0.7628	mg/L	0.00310	762.8	µg/L	3.10	0.41%

Sequence No.: 19
Sample ID: 1202003-36
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 2/13/2012 10:47:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-36

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	650763.4	102.1	%	0.33				0.32%
Ag 328.068†	-2.8						9.28	334.80%
Al 308.215†	134.1	0.0084	mg/L	0.00833	8.421	µg/L	8.3334	98.96%
As 188.979†	6.7	0.0190	mg/L	0.00407	19.04	µg/L	4.070	21.38%
B 249.677†	206.9	0.0170	mg/L	0.00131	16.99	µg/L	1.311	7.71%
Ba 233.527†	1144.3	0.0684	mg/L	0.00005	68.38	µg/L	0.054	0.08%
Be 313.107†	30.9	0.0000	mg/L	0.00004	0.0439	µg/L	0.03548	80.84%
Ca 317.933†	1115308.5	27.98	mg/L	0.089	27980	µg/L	88.6	0.32%
Cd 214.440†	-23.3	-0.0006	mg/L	0.00009	-0.6479	µg/L	0.09394	14.50%
Co 228.616†	-13.7	-0.0023	mg/L	0.00091	-2.274	µg/L	0.9124	40.12%

Cr 205.560†	21.3	0.0037	mg/L	0.00061	3.734	µg/L	0.6096	16.33%
Cu 327.393†	1079.5	0.0311	mg/L	0.00023	31.10	µg/L	0.233	0.75%
Fe 238.204†	1790.9	0.0698	mg/L	0.00025	69.77	µg/L	0.250	0.36%
K 766.490†	7408.8	1.036	mg/L	0.0081	1036	µg/L	8.1	0.78%
Mg 279.077†	24810.4	6.776	mg/L	0.0194	6776	µg/L	19.4	0.29%
Mn 257.610†	4995.5	0.0393	mg/L	0.00030	39.30	µg/L	0.302	0.77%
Mo 202.031†	1.8	0.0006	mg/L	0.00111	0.5616	µg/L	1.11466	198.49%
Na 589.592†	91254.6	5.230	mg/L	0.0050	5230	µg/L	5.0	0.09%
Ni 231.604†	-9.5	-0.0014	mg/L	0.00094	-1.403	µg/L	0.9444	67.30%
Pb 220.353†	-16.2	-0.0111	mg/L	0.00250	-11.12	µg/L	2.505	22.52%
Sb 206.836†	-1.0	-0.0044	mg/L	0.00432	-4.442	µg/L	4.3187	97.22%
Se 196.026†	3.9	0.0077	mg/L	0.01040	7.730	µg/L	10.3987	134.52%
Sn 189.927†	22.2	0.0109	mg/L	0.00692	10.95	µg/L	6.923	63.23%
Ti 334.940†	49.9	0.0003	mg/L	0.00003	0.3208	µg/L	0.02528	7.88%
Tl 190.801†	6.8	0.0638	mg/L	0.01196	63.81	µg/L	11.963	18.75%
V 292.402†	33.1	0.0009	mg/L	0.00038	0.9469	µg/L	0.37936	40.06%
Zn 206.200†	14.5	0.0016	mg/L	0.00050	1.563	µg/L	0.5026	32.16%
Li 670.784†	1579.4	0.0082	mg/L	0.00010	8.153	µg/L	0.0979	1.20%
Sr 421.552†	258475.3	0.2120	mg/L	0.00045	212.0	µg/L	0.45	0.21%

Sequence No.: 20
Sample ID: BB20907-MS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 2/13/2012 10:51:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20907-MS2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	643344.9	101.0	%	0.89				0.89%
Ag 328.068†	2494.6						29.09	1.17%
Al 308.215†	7888.5	2.041	mg/L	0.0043	2041	µg/L	4.3	0.21%
As 188.979†	216.0	0.5271	mg/L	0.00794	527.1	µg/L	7.94	1.51%
B 249.677†	6437.5	0.5292	mg/L	0.00231	529.2	µg/L	2.31	0.44%
Ba 233.527†	35536.1	2.124	mg/L	0.0107	2124	µg/L	10.7	0.50%
Be 313.107†	37587.7	0.0526	mg/L	0.00025	52.63	µg/L	0.255	0.48%
Ca 317.933†	1521595.2	38.17	mg/L	0.140	38170	µg/L	140.3	0.37%
Cd 214.440†	1746.6	0.0487	mg/L	0.00036	48.69	µg/L	0.360	0.74%
Co 228.616†	3034.9	0.5054	mg/L	0.00560	505.4	µg/L	5.60	1.11%
Cr 205.560†	2986.9	0.5218	mg/L	0.00345	521.8	µg/L	3.45	0.66%
Cu 327.393†	17898.6	0.5480	mg/L	0.00265	548.0	µg/L	2.65	0.48%
Fe 238.204†	134522.5	5.241	mg/L	0.0312	5241	µg/L	31.2	0.60%
K 766.490†	153505.8	21.46	mg/L	0.012	21460	µg/L	12.2	0.06%
Mg 279.077†	62153.7	16.97	mg/L	0.123	16970	µg/L	122.5	0.72%
Mn 257.610†	71503.8	0.5625	mg/L	0.00302	562.5	µg/L	3.02	0.54%
Mo 202.031†	1683.5	0.5274	mg/L	0.00454	527.4	µg/L	4.54	0.86%
Na 589.592†	271904.7	15.58	mg/L	0.031	15580	µg/L	31.4	0.20%
Ni 231.604†	3424.5	0.5075	mg/L	0.00372	507.5	µg/L	3.72	0.73%
Pb 220.353†	694.3	0.4761	mg/L	0.00796	476.1	µg/L	7.96	1.67%
Sb 206.836†	343.4	0.5368	mg/L	0.00629	536.8	µg/L	6.29	1.17%
Se 196.026†	271.0	0.5374	mg/L	0.01562	537.4	µg/L	15.62	2.91%
Sn 189.927†	261.2	0.5372	mg/L	0.00413	537.2	µg/L	4.13	0.77%
Ti 334.940†	82480.1	0.5297	mg/L	0.00232	529.7	µg/L	2.32	0.44%
Tl 190.801†	58.8	0.6050	mg/L	0.02041	605.0	µg/L	20.41	3.37%
V 292.402†	18020.2	0.5161	mg/L	0.00217	516.1	µg/L	2.17	0.42%
Zn 206.200†	4753.9	0.5147	mg/L	0.00433	514.7	µg/L	4.33	0.84%
Li 670.784†	99051.8	0.5113	mg/L	0.00142	511.3	µg/L	1.42	0.28%
Sr 421.552†	878772.1	0.7208	mg/L	0.00149	720.8	µg/L	1.49	0.21%

Sequence No.: 21
Sample ID: 1202003-37
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 2/13/2012 10:54:57 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-37

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

Y 360.073	625272.9	98.14 %	0.786				0.80%
Ag 328.068†	37.7					9.11	24.17%
Al 308.215†	-17.9	-0.0202 mg/L	0.00602	-20.23 µg/L		6.021	29.76%
As 188.979†	4.0	0.0111 mg/L	0.00497	11.10 µg/L		4.974	44.81%
B 249.677†	290.2	0.0239 mg/L	0.00164	23.88 µg/L		1.635	6.85%
Ba 233.527†	1987.7	0.1188 mg/L	0.00140	118.8 µg/L		1.40	1.18%
Be 313.107†	21.5	0.0000 mg/L	0.00005	0.0304 µg/L		0.04609	151.46%
Ca 317.933†	643608.2	16.15 mg/L	0.054	16150 µg/L		54.0	0.33%
Cd 214.440†	7.6	0.0002 mg/L	0.00025	0.2196 µg/L		0.25113	114.35%
Co 228.616†	6.0	0.0010 mg/L	0.00059	0.9942 µg/L		0.59175	59.52%
Cr 205.560†	11.2	0.0020 mg/L	0.00027	1.963 µg/L		0.2703	13.77%
Cu 327.393†	805.4	0.0236 mg/L	0.00095	23.56 µg/L		0.949	4.03%
Fe 238.204†	1131.9	0.0441 mg/L	0.00086	44.10 µg/L		0.863	1.96%
K 766.490†	5981.3	0.8360 mg/L	0.01051	836.0 µg/L		10.51	1.26%
Mg 279.077†	12090.5	3.302 mg/L	0.0168	3302 µg/L		16.8	0.51%
Mn 257.610†	95.1	0.0007 mg/L	0.00009	0.7483 µg/L		0.09396	12.56%
Mo 202.031†	3.3	0.0010 mg/L	0.00246	1.021 µg/L		2.4610	241.01%
Na 589.592†	98874.3	5.667 mg/L	0.0163	5667 µg/L		16.3	0.29%
Ni 231.604†	-3.1	-0.0005 mg/L	0.00056	-0.4573 µg/L		0.55824	122.07%
Pb 220.353†	-5.5	-0.0038 mg/L	0.00373	-3.786 µg/L		3.7289	98.48%
Sb 206.836†	1.5	0.0011 mg/L	0.00165	1.091 µg/L		1.6526	151.42%
Se 196.026†	7.1	0.0141 mg/L	0.00879	14.10 µg/L		8.787	62.33%
Sn 189.927†	12.9	0.0065 mg/L	0.00578	6.518 µg/L		5.7836	88.73%
Ti 334.940†	61.2	0.0004 mg/L	0.00007	0.3932 µg/L		0.06888	17.52%
Tl 190.801†	4.6	0.0450 mg/L	0.03659	45.00 µg/L		36.587	81.31%
V 292.402†	19.5	0.0006 mg/L	0.00021	0.5593 µg/L		0.21109	37.74%
Zn 206.200†	54.0	0.0059 mg/L	0.00032	5.852 µg/L		0.3244	5.54%
Li 670.784†	1099.9	0.0057 mg/L	0.00018	5.678 µg/L		0.1786	3.15%
Sr 421.552†	103219.7	0.0847 mg/L	0.00039	84.66 µg/L		0.387	0.46%

Sequence No.: 22
Sample ID: IBL
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/13/2012 10:58:39 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: IBL

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	620370.6	97.37	%	1.000				1.03%
Ag 328.068†	85.7						34.61	40.36%
Unable to evaluate QC.								
Al 308.215†	-22.5	-0.0059	mg/L	0.00358	-5.935	µg/L	3.5834	60.37%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-2.4	-0.0058	mg/L	0.00472	-5.805	µg/L	4.7218	81.34%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	63.8	0.0052	mg/L	0.00139	5.247	µg/L	1.3904	26.50%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	3.6	0.0002	mg/L	0.00007	0.2137	µg/L	0.06887	32.22%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	12.8	0.0000	mg/L	0.00004	0.0181	µg/L	0.04015	221.91%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	277.0	0.0069	mg/L	0.00240	6.949	µg/L	2.4025	34.57%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 214.440†	9.1	0.0003	mg/L	0.00003	0.2563	µg/L	0.02721	10.62%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	-1.7	-0.0003	mg/L	0.00027	-0.2802	µg/L	0.26937	96.13%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	5.5	0.0010	mg/L	0.00091	0.9541	µg/L	0.90582	94.94%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 327.393†	4.2	0.0001	mg/L	0.00032	0.1295	µg/L	0.31596	244.06%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	15.9	0.0006	mg/L	0.00042	0.6203	µg/L	0.41701	67.22%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	314.3	0.0439	mg/L	0.00566	43.93	µg/L	5.664	12.89%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	-14.7	-0.0040	mg/L	0.00083	-4.017	µg/L	0.8274	20.60%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	26.7	0.0002	mg/L	0.00003	0.2097	µg/L	0.03350	15.98%
QC value within limits for Mn 257.610 Recovery = Not calculated								

Mo 202.031†	5.6	0.0018 mg/L	0.00092	1.767 µg/L	0.9214	52.15%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	406.6	0.0233 mg/L	0.00342	23.30 µg/L	3.417	14.67%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-6.6	-0.0010 mg/L	0.00122	-0.9810 µg/L	1.22206	124.58%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	5.9	0.0041 mg/L	0.00429	4.074 µg/L	4.2876	105.24%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	9.2	0.0150 mg/L	0.00250	14.95 µg/L	2.500	16.72%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	5.9	0.0116 mg/L	0.00897	11.62 µg/L	8.973	77.21%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	4.0	0.0089 mg/L	0.00130	8.942 µg/L	1.3043	14.59%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 334.940†	3.7	0.0000 mg/L	0.00025	0.0240 µg/L	0.24522	>999.9%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	1.1	0.0123 mg/L	0.01430	12.26 µg/L	14.299	116.62%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	10.2	0.0003 mg/L	0.00011	0.2935 µg/L	0.10557	35.97%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	11.8	0.0013 mg/L	0.00055	1.276 µg/L	0.5491	43.04%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Li 670.784†	264.9	0.0014 mg/L	0.00022	1.368 µg/L	0.2192	16.03%
QC value within limits for Li 670.784 Recovery = Not calculated						
Sr 421.552†	34.1	0.0000 mg/L	0.00001	0.0279 µg/L	0.01161	41.56%
QC value within limits for Sr 421.552 Recovery = Not calculated						

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 23
Sample ID: CCV@A/B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/13/2012 11:02:17 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV@A/B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 360.073	620714.0	97.42	%	0.258				0.26%
Ag 328.068†	-267.7						34.16	12.76%
Al 308.215†	38699.3	10.17	mg/L	0.079	10170	µg/L	78.7	0.77%
QC value within limits for Al 308.215 Recovery = 101.69%								
As 188.979†	2132.1	5.096	mg/L	0.0194	5096	µg/L	19.4	0.38%
QC value within limits for As 188.979 Recovery = 101.93%								
B 249.677†	31402.4	2.579	mg/L	0.0287	2579	µg/L	28.7	1.11%
QC value within limits for B 249.677 Recovery = 103.16%								
Ba 233.527†	42712.9	2.552	mg/L	0.0152	2552	µg/L	15.2	0.59%
QC value within limits for Ba 233.527 Recovery = 102.10%								
Be 313.107†	1850892.2	2.588	mg/L	0.0016	2588	µg/L	1.6	0.06%
QC value within limits for Be 313.107 Recovery = 103.50%								
Ca 317.933†	1034971.3	25.97	mg/L	0.038	25970	µg/L	38.0	0.15%
QC value within limits for Ca 317.933 Recovery = 103.86%								
Cd 214.440†	90872.6	2.541	mg/L	0.0070	2541	µg/L	7.0	0.28%
QC value within limits for Cd 214.440 Recovery = 101.65%								
Co 228.616†	15391.0	2.563	mg/L	0.0134	2563	µg/L	13.4	0.52%
QC value within limits for Co 228.616 Recovery = 102.52%								
Cr 205.560†	29749.7	5.191	mg/L	0.0204	5191	µg/L	20.4	0.39%
QC value within limits for Cr 205.560 Recovery = 103.82%								
Cu 327.393†	168750.4	5.192	mg/L	0.0487	5192	µg/L	48.7	0.94%
QC value within limits for Cu 327.393 Recovery = 103.84%								
Fe 238.204†	266961.3	10.40	mg/L	0.008	10400	µg/L	7.6	0.07%
QC value within limits for Fe 238.204 Recovery = 104.00%								
K 766.490†	181539.3	25.37	mg/L	0.027	25370	µg/L	26.5	0.10%
QC value within limits for K 766.490 Recovery = 101.50%								
Mg 279.077†	94347.4	25.77	mg/L	0.135	25770	µg/L	135.2	0.52%
QC value within limits for Mg 279.077 Recovery = 103.07%								
Mn 257.610†	660022.9	5.192	mg/L	0.0041	5192	µg/L	4.1	0.08%
QC value within limits for Mn 257.610 Recovery = 103.84%								
Mo 202.031†	1659.8	0.5199	mg/L	0.00026	519.9	µg/L	0.26	0.05%
QC value within limits for Mo 202.031 Recovery = 103.99%								
Na 589.592†	452666.8	25.94	mg/L	0.008	25940	µg/L	7.6	0.03%

QC value within limits for Na 589.592 Recovery = 103.78%

Ni 231.604†	35167.2	5.211 mg/L	0.0286	5211 µg/L	28.6	0.55%

QC value within limits for Ni 231.604 Recovery = 104.23%

Pb 220.353†	3675.4	2.517 mg/L	0.0037	2517 µg/L	3.7	0.15%

QC value within limits for Pb 220.353 Recovery = 100.66%

Sb 206.836†	1670.9	2.593 mg/L	0.0250	2593 µg/L	25.0	0.97%

QC value within limits for Sb 206.836 Recovery = 103.72%

Se 196.026†	1317.6	2.612 mg/L	0.0069	2612 µg/L	6.9	0.27%

QC value within limits for Se 196.026 Recovery = 104.50%

Sn 189.927†	1178.1	2.627 mg/L	0.0084	2627 µg/L	8.4	0.32%

QC value within limits for Sn 189.927 Recovery = 105.08%

Ti 334.940†	81459.1	0.5232 mg/L	0.00517	523.2 µg/L	5.17	0.99%

QC value within limits for Ti 334.940 Recovery = 104.64%

Tl 190.801†	240.8	2.563 mg/L	0.0405	2563 µg/L	40.5	1.58%

QC value within limits for Tl 190.801 Recovery = 102.50%

V 292.402†	45442.5	1.302 mg/L	0.0100	1302 µg/L	10.0	0.77%

QC value within limits for V 292.402 Recovery = 104.13%

Zn 206.200†	96052.3	10.41 mg/L	0.036	10410 µg/L	35.8	0.34%

QC value within limits for Zn 206.200 Recovery = 104.07%

Li 670.784†	483463.8	2.496 mg/L	0.0025	2496 µg/L	2.5	0.10%

QC value within limits for Li 670.784 Recovery = 99.83%

Sr 421.552†	3096626.8	2.540 mg/L	0.0157	2540 µg/L	15.7	0.62%

QC value within limits for Sr 421.552 Recovery = 101.59%

All analyte(s) passed QC.

Sequence No.: 24
Sample ID: 1202003-38
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 2/13/2012 11:06:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-38

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	628711.1	98.68	%	1.182				1.20%
Ag 328.068†	-1.3						27.83	>999.9%
Al 308.215†	83.8	-0.0047	mg/L	0.00664	-4.703	µg/L	6.6400	141.19%
As 188.979†	6.4	0.0183	mg/L	0.00582	18.33	µg/L	5.819	31.75%
B 249.677†	395.3	0.0325	mg/L	0.00310	32.49	µg/L	3.100	9.54%
Ba 233.527†	1161.4	0.0694	mg/L	0.00155	69.40	µg/L	1.553	2.24%
Be 313.107†	224.0	0.0003	mg/L	0.00008	0.3139	µg/L	0.08386	26.72%
Ca 317.933†	1110298.0	27.86	mg/L	0.115	27860	µg/L	115.2	0.41%
Cd 214.440†	9.0	0.0003	mg/L	0.00029	0.2505	µg/L	0.28663	114.40%
Co 228.616†	6.0	0.0010	mg/L	0.00085	0.9958	µg/L	0.84652	85.01%
Cr 205.560†	26.9	0.0047	mg/L	0.00104	4.696	µg/L	1.0409	22.16%
Cu 327.393†	430.7	0.0111	mg/L	0.00090	11.14	µg/L	0.900	8.08%
Fe 238.204†	1188.0	0.0463	mg/L	0.00216	46.28	µg/L	2.164	4.68%
K 766.490†	7638.0	1.068	mg/L	0.0143	1068	µg/L	14.3	1.34%
Mg 279.077†	24643.9	6.730	mg/L	0.0695	6730	µg/L	69.5	1.03%
Mn 257.610†	5095.1	0.0401	mg/L	0.00045	40.08	µg/L	0.450	1.12%
Mo 202.031†	4.2	0.0013	mg/L	0.00201	1.304	µg/L	2.0082	153.99%
Na 589.592†	89227.0	5.114	mg/L	0.0108	5114	µg/L	10.8	0.21%
Ni 231.604†	-4.2	-0.0006	mg/L	0.00066	-0.6253	µg/L	0.66260	105.97%
Pb 220.353†	-15.2	-0.0104	mg/L	0.00529	-10.41	µg/L	5.295	50.86%
Sb 206.836†	18.0	0.0264	mg/L	0.00562	26.43	µg/L	5.619	21.26%
Se 196.026†	9.2	0.0182	mg/L	0.00503	18.18	µg/L	5.027	27.65%
Sn 189.927†	22.5	0.0118	mg/L	0.00798	11.79	µg/L	7.984	67.69%
Ti 334.940†	70.9	0.0005	mg/L	0.00013	0.4556	µg/L	0.13474	29.57%
Tl 190.801†	7.6	0.0727	mg/L	0.01837	72.67	µg/L	18.369	25.28%
V 292.402†	18.0	0.0005	mg/L	0.00010	0.5141	µg/L	0.10087	19.62%
Zn 206.200†	84.8	0.0092	mg/L	0.00117	9.186	µg/L	1.1672	12.71%
Li 670.784†	1799.4	0.0093	mg/L	0.00015	9.289	µg/L	0.1544	1.66%
Sr 421.552†	257346.4	0.2111	mg/L	0.00036	211.1	µg/L	0.36	0.17%

Sequence No.: 25
Sample ID: 1202003-39
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 2/13/2012 11:10:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-39

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	641211.3	100.6	%	0.58				0.58%
Ag 328.068†	75.1						27.94	37.19%
Al 308.215†	8.9	0.0023	mg/L	0.00783	2.336	µg/L	7.8325	335.36%
As 188.979†	37.8	0.0902	mg/L	0.00371	90.24	µg/L	3.708	4.11%
B 249.677†	1548.7	0.1275	mg/L	0.00173	127.5	µg/L	1.73	1.35%
Ba 233.527†	3.1	0.0002	mg/L	0.00016	0.1854	µg/L	0.16030	86.48%
Be 313.107†	84.8	0.0001	mg/L	0.00002	0.1185	µg/L	0.02032	17.14%
Ca 317.933†	543.6	0.0136	mg/L	0.00168	13.64	µg/L	1.679	12.31%
Cd 214.440†	-2.5	-0.0001	mg/L	0.00022	-0.0701	µg/L	0.21791	310.89%
Co 228.616†	-8.0	-0.0013	mg/L	0.00048	-1.337	µg/L	0.4778	35.75%
Cr 205.560†	0.1	0.0000	mg/L	0.00094	0.0220	µg/L	0.93969	>999.9%
Cu 327.393†	-14.0	-0.0004	mg/L	0.00078	-0.4330	µg/L	0.78322	180.90%
Fe 238.204†	316.4	0.0123	mg/L	0.00033	12.33	µg/L	0.330	2.68%
K 766.490†	1211.2	0.1693	mg/L	0.01427	169.3	µg/L	14.27	8.43%
Mg 279.077†	15.1	0.0041	mg/L	0.00185	4.119	µg/L	1.8495	44.90%
Mn 257.610†	18.8	0.0001	mg/L	0.00003	0.1479	µg/L	0.03032	20.50%
Mo 202.031†	9.6	0.0030	mg/L	0.00075	3.019	µg/L	0.7488	24.80%
Na 589.592†	1639076.0	93.94	mg/L	0.027	93940	µg/L	26.9	0.03%
Ni 231.604†	-4.7	-0.0007	mg/L	0.00069	-0.7007	µg/L	0.69380	99.02%
Pb 220.353†	0.4	0.0003	mg/L	0.00292	0.2605	µg/L	2.91516	>999.9%
Sb 206.836†	2.7	0.0044	mg/L	0.00358	4.361	µg/L	3.5825	82.15%
Se 196.026†	1.2	0.0024	mg/L	0.00169	2.379	µg/L	1.6929	71.15%
Sn 189.927†	3.8	0.0085	mg/L	0.00394	8.528	µg/L	3.9399	46.20%
Ti 334.940†	15.0	0.0001	mg/L	0.00013	0.0964	µg/L	0.13195	136.89%
Tl 190.801†	-0.5	-0.0060	mg/L	0.02703	-5.994	µg/L	27.0289	450.94%
V 292.402†	7.7	0.0002	mg/L	0.00016	0.2200	µg/L	0.15859	72.07%
Zn 206.200†	11.4	0.0012	mg/L	0.00038	1.239	µg/L	0.3794	30.61%
Li 670.784†	617.3	0.0032	mg/L	0.00018	3.187	µg/L	0.1829	5.74%
Sr 421.552†	253.1	0.0002	mg/L	0.00004	0.2076	µg/L	0.04003	19.28%

Sequence No.: 26
Sample ID: 1202003-40
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 2/13/2012 11:15:21 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-40

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	637671.2	100.1	%	0.73				0.73%
Ag 328.068†	26.1						22.50	86.12%
Al 308.215†	-4.4	-0.0275	mg/L	0.00458	-27.50	µg/L	4.582	16.66%
As 188.979†	7.0	0.0197	mg/L	0.00667	19.70	µg/L	6.668	33.84%
B 249.677†	225.1	0.0185	mg/L	0.00120	18.49	µg/L	1.196	6.47%
Ba 233.527†	1125.1	0.0672	mg/L	0.00066	67.24	µg/L	0.655	0.97%
Be 313.107†	69.7	0.0001	mg/L	0.00008	0.0979	µg/L	0.08063	82.35%
Ca 317.933†	1091392.5	27.38	mg/L	0.126	27380	µg/L	125.8	0.46%
Cd 214.440†	-10.9	-0.0003	mg/L	0.00028	-0.3031	µg/L	0.28088	92.68%
Co 228.616†	-6.0	-0.0010	mg/L	0.00039	-0.9937	µg/L	0.38713	38.96%
Cr 205.560†	16.5	0.0029	mg/L	0.00044	2.880	µg/L	0.4376	15.19%
Cu 327.393†	168.8	0.0031	mg/L	0.00134	3.116	µg/L	1.3350	42.84%
Fe 238.204†	318.9	0.0124	mg/L	0.00034	12.42	µg/L	0.339	2.73%
K 766.490†	7376.2	1.031	mg/L	0.0132	1031	µg/L	13.2	1.28%
Mg 279.077†	24345.5	6.649	mg/L	0.0469	6649	µg/L	46.9	0.71%
Mn 257.610†	4858.9	0.0382	mg/L	0.00034	38.22	µg/L	0.335	0.88%
Mo 202.031†	2.9	0.0009	mg/L	0.00157	0.9115	µg/L	1.56810	172.03%
Na 589.592†	88620.8	5.079	mg/L	0.0118	5079	µg/L	11.8	0.23%
Ni 231.604†	-5.8	-0.0009	mg/L	0.00114	-0.8642	µg/L	1.13989	131.90%
Pb 220.353†	-16.7	-0.0115	mg/L	0.00541	-11.49	µg/L	5.411	47.10%
Sb 206.836†	4.6	0.0047	mg/L	0.00799	4.730	µg/L	7.9870	168.85%
Se 196.026†	7.9	0.0156	mg/L	0.00281	15.65	µg/L	2.807	17.93%
Sn 189.927†	23.3	0.0144	mg/L	0.00618	14.38	µg/L	6.180	42.98%
Ti 334.940†	21.9	0.0001	mg/L	0.00020	0.1405	µg/L	0.19931	141.87%
Tl 190.801†	8.8	0.0861	mg/L	0.00896	86.08	µg/L	8.962	10.41%
V 292.402†	13.7	0.0004	mg/L	0.00030	0.3935	µg/L	0.29677	75.41%

Zn 206.200†	20.7	0.0022	mg/L	0.00034	2.243	µg/L	0.3356	14.97%
Li 670.784†	1580.6	0.0082	mg/L	0.00021	8.160	µg/L	0.2060	2.52%
Sr 421.552†	254123.9	0.2084	mg/L	0.00052	208.4	µg/L	0.52	0.25%

Sequence No.: 27
Sample ID: 1202003-41
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 2/13/2012 11:18:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-41

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	635270.0	99.71	%	0.299				0.30%
Ag 328.068†	21.0						29.05	138.33%
Al 308.215†	-15.6	-0.0193	mg/L	0.00217	-19.26	µg/L	2.172	11.28%
As 188.979†	4.0	0.0111	mg/L	0.00802	11.13	µg/L	8.018	72.04%
B 249.677†	267.7	0.0220	mg/L	0.00063	22.03	µg/L	0.625	2.84%
Ba 233.527†	1948.9	0.1165	mg/L	0.00042	116.5	µg/L	0.42	0.36%
Be 313.107†	62.6	0.0001	mg/L	0.00005	0.0880	µg/L	0.04936	56.10%
Ca 317.933†	628187.9	15.76	mg/L	0.017	15760	µg/L	16.8	0.11%
Cd 214.440†	-6.8	-0.0002	mg/L	0.00015	-0.1830	µg/L	0.14897	81.39%
Co 228.616†	-4.2	-0.0007	mg/L	0.00108	-0.7001	µg/L	1.08451	154.91%
Cr 205.560†	12.9	0.0023	mg/L	0.00061	2.258	µg/L	0.6088	26.96%
Cu 327.393†	596.1	0.0172	mg/L	0.00144	17.15	µg/L	1.440	8.40%
Fe 238.204†	33.4	0.0013	mg/L	0.00028	1.300	µg/L	0.2765	21.27%
K 766.490†	5744.0	0.8028	mg/L	0.00223	802.8	µg/L	2.23	0.28%
Mg 279.077†	11814.4	3.227	mg/L	0.0125	3227	µg/L	12.5	0.39%
Mn 257.610†	-3.2	0.0000	mg/L	0.00004	-0.0254	µg/L	0.04160	163.63%
Mo 202.031†	4.5	0.0014	mg/L	0.00214	1.399	µg/L	2.1384	152.82%
Na 589.592†	97709.0	5.600	mg/L	0.0179	5600	µg/L	17.9	0.32%
Ni 231.604†	-9.4	-0.0014	mg/L	0.00071	-1.393	µg/L	0.7117	51.07%
Pb 220.353†	-13.6	-0.0094	mg/L	0.00184	-9.354	µg/L	1.8362	19.63%
Sb 206.836†	-0.1	-0.0015	mg/L	0.00753	-1.476	µg/L	7.5251	509.73%
Se 196.026†	1.2	0.0024	mg/L	0.00658	2.406	µg/L	6.5839	273.61%
Sn 189.927†	15.8	0.0137	mg/L	0.00354	13.70	µg/L	3.543	25.87%
Ti 334.940†	4.4	0.0000	mg/L	0.00008	0.0284	µg/L	0.07939	279.13%
Tl 190.801†	2.2	0.0191	mg/L	0.02324	19.14	µg/L	23.245	121.44%
V 292.402†	21.7	0.0006	mg/L	0.00030	0.6214	µg/L	0.29964	48.22%
Zn 206.200†	39.2	0.0043	mg/L	0.00039	4.251	µg/L	0.3943	9.27%
Li 670.784†	922.4	0.0048	mg/L	0.00039	4.762	µg/L	0.3881	8.15%
Sr 421.552†	102129.0	0.0838	mg/L	0.00028	83.77	µg/L	0.285	0.34%

Sequence No.: 28
Sample ID: BB20907-DUP4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 2/13/2012 11:22:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20907-DUP4

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	656192.5	103.0	%	0.49				0.48%
Ag 328.068†	-30.0						28.13	93.90%
Al 308.215†	-15.5	-0.0190	mg/L	0.00508	-19.02	µg/L	5.076	26.69%
As 188.979†	2.8	0.0081	mg/L	0.00475	8.124	µg/L	4.7486	58.45%
B 249.677†	244.1	0.0201	mg/L	0.00056	20.09	µg/L	0.558	2.78%
Ba 233.527†	1908.8	0.1141	mg/L	0.00076	114.1	µg/L	0.76	0.67%
Be 313.107†	51.6	0.0001	mg/L	0.00004	0.0726	µg/L	0.03503	48.24%
Ca 317.933†	618778.4	15.52	mg/L	0.027	15520	µg/L	26.6	0.17%
Cd 214.440†	-17.5	-0.0005	mg/L	0.00027	-0.4810	µg/L	0.27197	56.55%
Co 228.616†	-9.3	-0.0016	mg/L	0.00025	-1.555	µg/L	0.2512	16.16%
Cr 205.560†	13.1	0.0023	mg/L	0.00016	2.282	µg/L	0.1635	7.17%
Cu 327.393†	594.6	0.0171	mg/L	0.00109	17.12	µg/L	1.089	6.36%
Fe 238.204†	39.8	0.0016	mg/L	0.00035	1.552	µg/L	0.3505	22.58%
K 766.490†	5598.7	0.7825	mg/L	0.00646	782.5	µg/L	6.46	0.83%
Mg 279.077†	11648.0	3.181	mg/L	0.0088	3181	µg/L	8.8	0.28%
Mn 257.610†	-39.5	-0.0003	mg/L	0.00005	-0.3111	µg/L	0.04737	15.23%

Mo 202.031†	4.7	0.0015 mg/L	0.00057	1.457 µg/L	0.5734	39.36%
Na 589.592†	97121.5	5.566 mg/L	0.0072	5566 µg/L	7.2	0.13%
Ni 231.604†	-13.2	-0.0020 mg/L	0.00059	-1.961 µg/L	0.5927	30.23%
Pb 220.353†	-16.5	-0.0113 mg/L	0.00327	-11.31 µg/L	3.267	28.88%
Sb 206.836†	-5.2	-0.0098 mg/L	0.00625	-9.808 µg/L	6.2502	63.73%
Se 196.026†	5.9	0.0116 mg/L	0.00351	11.64 µg/L	3.509	30.14%
Sn 189.927†	14.5	0.0112 mg/L	0.00436	11.16 µg/L	4.358	39.05%
Ti 334.940†	-13.9	-0.0001 mg/L	0.00024	-0.0893 µg/L	0.23815	266.78%
Tl 190.801†	2.9	0.0272 mg/L	0.00759	27.25 µg/L	7.589	27.85%
V 292.402†	13.4	0.0004 mg/L	0.00010	0.3834 µg/L	0.09672	25.23%
Zn 206.200†	24.2	0.0026 mg/L	0.00022	2.625 µg/L	0.2250	8.57%
Li 670.784†	871.7	0.0045 mg/L	0.00021	4.500 µg/L	0.2119	4.71%
Sr 421.552†	102326.8	0.0839 mg/L	0.00022	83.93 µg/L	0.221	0.26%

Sequence No.: 29
Sample ID: 1202003-42
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 2/13/2012 11:26:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-42

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	652292.2	102.4	%	0.26				0.25%
Ag 328.068†	21.3						30.80	144.25%
Al 308.215†	-9.8	-0.0026	mg/L	0.00416	-2.604	µg/L	4.1617	159.81%
As 188.979†	35.0	0.0837	mg/L	0.00372	83.69	µg/L	3.718	4.44%
B 249.677†	1448.2	0.1192	mg/L	0.00153	119.2	µg/L	1.53	1.28%
Ba 233.527†	1.7	0.0001	mg/L	0.00032	0.1016	µg/L	0.32101	316.08%
Be 313.107†	62.4	0.0001	mg/L	0.00001	0.0872	µg/L	0.01431	16.41%
Ca 317.933†	534.7	0.0134	mg/L	0.00183	13.41	µg/L	1.830	13.64%
Cd 214.440†	-5.7	-0.0002	mg/L	0.00011	-0.1588	µg/L	0.11493	72.38%
Co 228.616†	-13.2	-0.0022	mg/L	0.00058	-2.206	µg/L	0.5814	26.36%
Cr 205.560†	2.1	0.0004	mg/L	0.00047	0.3672	µg/L	0.47471	129.28%
Cu 327.393†	-49.9	-0.0015	mg/L	0.00045	-1.537	µg/L	0.4486	29.18%
Fe 238.204†	233.7	0.0091	mg/L	0.00096	9.105	µg/L	0.9641	10.59%
K 766.490†	1046.2	0.1462	mg/L	0.00855	146.2	µg/L	8.55	5.85%
Mg 279.077†	17.7	0.0048	mg/L	0.00379	4.834	µg/L	3.7936	78.47%
Mn 257.610†	-1.6	0.0000	mg/L	0.00010	-0.0125	µg/L	0.10417	834.75%
Mo 202.031†	5.6	0.0018	mg/L	0.00163	1.752	µg/L	1.6320	93.15%
Na 589.592†	1632832.0	93.58	mg/L	0.495	93580	µg/L	495.3	0.53%
Ni 231.604†	-5.4	-0.0008	mg/L	0.00024	-0.7933	µg/L	0.24311	30.65%
Pb 220.353†	-4.1	-0.0028	mg/L	0.00418	-2.794	µg/L	4.1790	149.55%
Sb 206.836†	-4.3	-0.0070	mg/L	0.00614	-7.009	µg/L	6.1358	87.54%
Se 196.026†	1.8	0.0036	mg/L	0.00332	3.574	µg/L	3.3152	92.76%
Sn 189.927†	0.0	0.0001	mg/L	0.00488	0.0730	µg/L	4.88050	>999.9%
Ti 334.940†	-7.1	0.0000	mg/L	0.00008	-0.0457	µg/L	0.08262	180.91%
Tl 190.801†	-3.0	-0.0332	mg/L	0.01887	-33.18	µg/L	18.868	56.86%
V 292.402†	13.4	0.0004	mg/L	0.00028	0.3837	µg/L	0.27612	71.96%
Zn 206.200†	-4.5	-0.0005	mg/L	0.00030	-0.4848	µg/L	0.29767	61.41%
Li 670.784†	545.6	0.0028	mg/L	0.00038	2.816	µg/L	0.3799	13.49%
Sr 421.552†	224.4	0.0002	mg/L	0.00001	0.1841	µg/L	0.01407	7.64%

Sequence No.: 30
Sample ID: 1202003-43
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 2/13/2012 11:31:22 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-43

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	639969.3	100.4	%	0.54				0.54%
Ag 328.068†	18.0						28.71	159.35%
Al 308.215†	1.0	-0.0149	mg/L	0.00473	-14.90	µg/L	4.730	31.74%
As 188.979†	1.7	0.0054	mg/L	0.00253	5.436	µg/L	2.5336	46.61%
B 249.677†	238.2	0.0196	mg/L	0.00046	19.60	µg/L	0.462	2.36%
Ba 233.527†	1918.8	0.1147	mg/L	0.00079	114.7	µg/L	0.79	0.69%

Be 313.107†	24.6	0.0000	mg/L	0.00000	0.0347	µg/L	0.00280	8.07%
Ca 317.933†	628585.5	15.77	mg/L	0.062	15770	µg/L	61.9	0.39%
Cd 214.440†	-4.7	-0.0001	mg/L	0.00011	-0.1048	µg/L	0.10952	104.50%
Co 228.616†	-5.6	-0.0009	mg/L	0.00109	-0.9394	µg/L	1.08668	115.68%
Cr 205.560†	9.3	0.0016	mg/L	0.00037	1.619	µg/L	0.3700	22.86%
Cu 327.393†	2835.7	0.0861	mg/L	0.00136	86.08	µg/L	1.357	1.58%
Fe 238.204†	34.6	0.0013	mg/L	0.00034	1.350	µg/L	0.3435	25.45%
K 766.490†	6910.6	0.9659	mg/L	0.00939	965.9	µg/L	9.39	0.97%
Mg 279.077†	11826.3	3.230	mg/L	0.0406	3230	µg/L	40.6	1.26%
Mn 257.610†	-1.3	0.0000	mg/L	0.00009	-0.0099	µg/L	0.09037	913.87%
Mo 202.031†	0.8	0.0003	mg/L	0.00119	0.2505	µg/L	1.18596	473.51%
Na 589.592†	98532.8	5.647	mg/L	0.0348	5647	µg/L	34.8	0.62%
Ni 231.604†	-5.7	-0.0008	mg/L	0.00030	-0.8395	µg/L	0.29614	35.28%
Pb 220.353†	-9.9	-0.0068	mg/L	0.00131	-6.793	µg/L	1.3088	19.27%
Sb 206.836†	1.2	0.0007	mg/L	0.00601	0.6916	µg/L	6.00706	868.53%
Se 196.026†	4.7	0.0093	mg/L	0.00493	9.320	µg/L	4.9305	52.91%
Sn 189.927†	15.9	0.0140	mg/L	0.00637	13.98	µg/L	6.372	45.58%
Ti 334.940†	1.4	0.0000	mg/L	0.00006	0.0089	µg/L	0.05573	628.80%
Tl 190.801†	2.7	0.0246	mg/L	0.03656	24.64	µg/L	36.555	148.38%
V 292.402†	12.0	0.0003	mg/L	0.00029	0.3423	µg/L	0.28817	84.19%
Zn 206.200†	31.8	0.0034	mg/L	0.00046	3.443	µg/L	0.4637	13.47%
Li 670.784†	879.1	0.0045	mg/L	0.00016	4.538	µg/L	0.1570	3.46%
Sr 421.552†	100857.6	0.0827	mg/L	0.00055	82.72	µg/L	0.549	0.66%

Sequence No.: 31
Sample ID: BB20907-MS4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 34
Date Collected: 2/13/2012 11:35:01 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20907-MS4

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	644045.5	101.1	%	0.41				0.40%
Ag 328.068†	2477.4						27.22	1.10%
Al 308.215†	7648.9	1.990	mg/L	0.0173	1990	µg/L	17.3	0.87%
As 188.979†	217.9	0.5300	mg/L	0.00393	530.0	µg/L	3.93	0.74%
B 249.677†	6439.7	0.5294	mg/L	0.00503	529.4	µg/L	5.03	0.95%
Ba 233.527†	36145.0	2.160	mg/L	0.0137	2160	µg/L	13.7	0.63%
Be 313.107†	37166.7	0.0520	mg/L	0.00039	52.04	µg/L	0.386	0.74%
Ca 317.933†	1028122.5	25.79	mg/L	0.097	25790	µg/L	97.4	0.38%
Cd 214.440†	1737.6	0.0485	mg/L	0.00039	48.47	µg/L	0.387	0.80%
Co 228.616†	3028.9	0.5044	mg/L	0.00189	504.4	µg/L	1.89	0.37%
Cr 205.560†	2954.7	0.5162	mg/L	0.00147	516.2	µg/L	1.47	0.28%
Cu 327.393†	19409.8	0.5955	mg/L	0.00628	595.5	µg/L	6.28	1.05%
Fe 238.204†	131848.4	5.137	mg/L	0.0306	5137	µg/L	30.6	0.60%
K 766.490†	149669.2	20.92	mg/L	0.075	20920	µg/L	75.4	0.36%
Mg 279.077†	49028.8	13.39	mg/L	0.077	13390	µg/L	76.9	0.57%
Mn 257.610†	66216.0	0.5209	mg/L	0.00335	520.9	µg/L	3.35	0.64%
Mo 202.031†	1671.1	0.5235	mg/L	0.00162	523.5	µg/L	1.62	0.31%
Na 589.592†	276080.4	15.82	mg/L	0.011	15820	µg/L	10.8	0.07%
Ni 231.604†	3428.9	0.5081	mg/L	0.00435	508.1	µg/L	4.35	0.86%
Pb 220.353†	694.2	0.4761	mg/L	0.00495	476.1	µg/L	4.95	1.04%
Sb 206.836†	342.7	0.5373	mg/L	0.01014	537.3	µg/L	10.14	1.89%
Se 196.026†	267.8	0.5309	mg/L	0.00925	530.9	µg/L	9.25	1.74%
Sn 189.927†	252.1	0.5338	mg/L	0.00571	533.8	µg/L	5.71	1.07%
Ti 334.940†	81832.2	0.5256	mg/L	0.00390	525.6	µg/L	3.90	0.74%
Tl 190.801†	54.2	0.5597	mg/L	0.00907	559.7	µg/L	9.07	1.62%
V 292.402†	17858.6	0.5115	mg/L	0.00455	511.5	µg/L	4.55	0.89%
Zn 206.200†	4741.2	0.5134	mg/L	0.00360	513.4	µg/L	3.60	0.70%
Li 670.784†	97139.6	0.5015	mg/L	0.00294	501.5	µg/L	2.94	0.59%
Sr 421.552†	724603.4	0.5943	mg/L	0.00027	594.3	µg/L	0.27	0.05%

Sequence No.: 32
Sample ID: 1202003-44
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 35
Date Collected: 2/13/2012 11:38:45 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-44

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	650739.8	102.1	%	0.80				0.78%
Ag 328.068†	31.7						27.37	86.24%
Al 308.215†	-22.8	-0.0060	mg/L	0.00324	-5.999	µg/L	3.2377	53.97%
As 188.979†	0.3	0.0008	mg/L	0.00680	0.7771	µg/L	6.80165	875.30%
B 249.677†	82.0	0.0068	mg/L	0.00096	6.750	µg/L	0.9616	14.24%
Ba 233.527†	5.0	0.0003	mg/L	0.00027	0.2961	µg/L	0.26606	89.86%
Be 313.107†	44.1	0.0001	mg/L	0.00003	0.0617	µg/L	0.02601	42.17%
Ca 317.933†	203.7	0.0051	mg/L	0.00149	5.109	µg/L	1.4924	29.21%
Cd 214.440†	-14.1	-0.0004	mg/L	0.00010	-0.3922	µg/L	0.10085	25.71%
Co 228.616†	-12.2	-0.0020	mg/L	0.00126	-2.036	µg/L	1.2592	61.84%
Cr 205.560†	-0.2	0.0000	mg/L	0.00036	-0.0352	µg/L	0.35609	>999.9%
Cu 327.393†	-28.7	-0.0009	mg/L	0.00006	-0.8850	µg/L	0.05765	6.51%
Fe 238.204†	75.1	0.0029	mg/L	0.00101	2.927	µg/L	1.0145	34.67%
K 766.490†	130.2	0.0182	mg/L	0.00983	18.20	µg/L	9.834	54.03%
Mg 279.077†	23.0	0.0063	mg/L	0.00032	6.272	µg/L	0.3160	5.04%
Mn 257.610†	-55.4	-0.0004	mg/L	0.00005	-0.4359	µg/L	0.05011	11.50%
Mo 202.031†	3.1	0.0010	mg/L	0.00154	0.9816	µg/L	1.54214	157.10%
Na 589.592†	648.7	0.0372	mg/L	0.00489	37.18	µg/L	4.889	13.15%
Ni 231.604†	-7.9	-0.0012	mg/L	0.00063	-1.171	µg/L	0.6301	53.82%
Pb 220.353†	-5.0	-0.0035	mg/L	0.00600	-3.451	µg/L	6.0018	173.92%
Sb 206.836†	-6.1	-0.0099	mg/L	0.00468	-9.882	µg/L	4.6842	47.40%
Se 196.026†	1.0	0.0020	mg/L	0.00317	1.993	µg/L	3.1729	159.17%
Sn 189.927†	-1.6	-0.0035	mg/L	0.00440	-3.513	µg/L	4.4016	125.30%
Ti 334.940†	-6.1	0.0000	mg/L	0.00013	-0.0394	µg/L	0.13036	330.76%
Tl 190.801†	-2.8	-0.0307	mg/L	0.02122	-30.67	µg/L	21.224	69.19%
V 292.402†	3.3	0.0001	mg/L	0.00042	0.0938	µg/L	0.41542	442.90%
Zn 206.200†	-8.3	-0.0009	mg/L	0.00016	-0.9038	µg/L	0.15622	17.28%
Li 670.784†	-168.6	-0.0009	mg/L	0.00037	-0.8705	µg/L	0.37182	42.71%
Sr 421.552†	67.3	0.0001	mg/L	0.00002	0.0552	µg/L	0.01685	30.51%

Sequence No.: 33
Sample ID: 1202003-45
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 36
Date Collected: 2/13/2012 11:42:26 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-45

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	636970.5	99.97	%	0.537				0.54%
Ag 328.068†	2.1						29.41	>999.9%
Al 308.215†	-20.9	-0.0055	mg/L	0.00478	-5.502	µg/L	4.7752	86.79%
As 188.979†	1.8	0.0043	mg/L	0.00225	4.257	µg/L	2.2458	52.76%
B 249.677†	84.5	0.0070	mg/L	0.00115	6.954	µg/L	1.1530	16.58%
Ba 233.527†	2.5	0.0001	mg/L	0.00025	0.1489	µg/L	0.24549	164.82%
Be 313.107†	31.6	0.0000	mg/L	0.00002	0.0442	µg/L	0.01995	45.14%
Ca 317.933†	5.2	0.0001	mg/L	0.00257	0.1296	µg/L	2.56511	>999.9%
Cd 214.440†	-6.6	-0.0002	mg/L	0.00002	-0.1839	µg/L	0.01816	9.87%
Co 228.616†	-7.4	-0.0012	mg/L	0.00092	-1.233	µg/L	0.9206	74.67%
Cr 205.560†	0.9	0.0002	mg/L	0.00090	0.1593	µg/L	0.90008	565.15%
Cu 327.393†	-41.5	-0.0013	mg/L	0.00136	-1.278	µg/L	1.3568	106.14%
Fe 238.204†	9.7	0.0004	mg/L	0.00027	0.3796	µg/L	0.27471	72.37%
K 766.490†	103.0	0.0144	mg/L	0.00402	14.40	µg/L	4.023	27.94%
Mg 279.077†	15.3	0.0042	mg/L	0.00242	4.166	µg/L	2.4205	58.10%
Mn 257.610†	-38.3	-0.0003	mg/L	0.00005	-0.3014	µg/L	0.04861	16.13%
Mo 202.031†	1.1	0.0003	mg/L	0.00085	0.3440	µg/L	0.84797	246.47%
Na 589.592†	650.1	0.0373	mg/L	0.00115	37.26	µg/L	1.153	3.10%
Ni 231.604†	-3.3	-0.0005	mg/L	0.00080	-0.4873	µg/L	0.80415	165.02%
Pb 220.353†	0.8	0.0005	mg/L	0.00084	0.5446	µg/L	0.83823	153.91%
Sb 206.836†	0.7	0.0012	mg/L	0.00485	1.173	µg/L	4.8457	413.02%
Se 196.026†	3.9	0.0077	mg/L	0.00460	7.730	µg/L	4.5950	59.45%
Sn 189.927†	1.4	0.0033	mg/L	0.00283	3.250	µg/L	2.8276	87.00%
Ti 334.940†	-8.5	-0.0001	mg/L	0.00014	-0.0543	µg/L	0.14153	260.50%
Tl 190.801†	-1.7	-0.0187	mg/L	0.01696	-18.72	µg/L	16.961	90.60%
V 292.402†	3.6	0.0001	mg/L	0.00007	0.1038	µg/L	0.06831	65.81%
Zn 206.200†	-2.1	-0.0002	mg/L	0.00023	-0.2285	µg/L	0.22512	98.50%

Li 670.784†	-165.9	-0.0009 mg/L	0.00023	-0.8566 µg/L	0.22841	26.67%
Sr 421.552†	-54.9	0.0000 mg/L	0.00002	-0.0450 µg/L	0.02299	51.09%

Sequence No.: 34 **Autosampler Location: 1**
Sample ID: IBL **Date Collected: 2/13/2012 11:46:07 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: IBL

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	650036.3	102.0	%	0.40				0.39%
Ag 328.068†	11.1						48.72	437.61%
Unable to evaluate QC.								
Al 308.215†	-23.5	-0.0062	mg/L	0.00057	-6.200	µg/L	0.5673	9.15%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	0.9	0.0021	mg/L	0.00640	2.059	µg/L	6.4028	310.92%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	36.9	0.0030	mg/L	0.00051	3.036	µg/L	0.5136	16.92%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-0.4	0.0000	mg/L	0.00016	-0.0255	µg/L	0.16350	641.06%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-1.9	0.0000	mg/L	0.00006	-0.0028	µg/L	0.06003	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	19.4	0.0005	mg/L	0.00077	0.4858	µg/L	0.76511	157.50%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 214.440†	-10.2	-0.0003	mg/L	0.00009	-0.2839	µg/L	0.08736	30.77%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	-13.7	-0.0023	mg/L	0.00151	-2.274	µg/L	1.5072	66.29%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	-3.0	-0.0005	mg/L	0.00116	-0.5292	µg/L	1.15864	218.94%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 327.393†	-13.3	-0.0004	mg/L	0.00102	-0.4088	µg/L	1.01737	248.84%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	1.2	0.0000	mg/L	0.00015	0.0482	µg/L	0.14839	307.77%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	82.6	0.0115	mg/L	0.01229	11.55	µg/L	12.287	106.39%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	10.1	0.0028	mg/L	0.00123	2.771	µg/L	1.2276	44.31%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-44.3	-0.0003	mg/L	0.00004	-0.3482	µg/L	0.04063	11.67%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	3.0	0.0010	mg/L	0.00053	0.9519	µg/L	0.53002	55.68%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	172.8	0.0099	mg/L	0.00167	9.903	µg/L	1.6650	16.81%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-9.9	-0.0015	mg/L	0.00028	-1.460	µg/L	0.2813	19.26%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-0.7	-0.0005	mg/L	0.00150	-0.4954	µg/L	1.50389	303.57%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-1.4	-0.0023	mg/L	0.00546	-2.302	µg/L	5.4594	237.12%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.5	-0.0010	mg/L	0.01181	-1.025	µg/L	11.8145	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	0.9	0.0021	mg/L	0.00169	2.101	µg/L	1.6874	80.30%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	3.7	0.0000	mg/L	0.00009	0.0239	µg/L	0.08624	360.53%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-1.6	-0.0174	mg/L	0.01722	-17.41	µg/L	17.220	98.93%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	7.5	0.0002	mg/L	0.00055	0.2143	µg/L	0.54511	254.39%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	-0.9	-0.0001	mg/L	0.00045	-0.0947	µg/L	0.45003	475.40%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Li 670.784†	42.0	0.0002	mg/L	0.00038	0.2166	µg/L	0.38072	175.78%
QC value within limits for Li 670.784 Recovery = Not calculated								
Sr 421.552†	-17.5	0.0000	mg/L	0.00001	-0.0144	µg/L	0.01140	79.27%
QC value within limits for Sr 421.552 Recovery = Not calculated								

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 35
Sample ID: CCV@A/B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/13/2012 11:49:45 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV@A/B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	635042.2	99.67	%	0.424				0.43%
Ag 328.068†	-285.0						16.74	5.87%
Al 308.215†	38029.4	9.993	mg/L	0.1070	9993	µg/L	107.0	1.07%
QC value within limits for Al 308.215 Recovery = 99.93%								
As 188.979†	2103.6	5.028	mg/L	0.0298	5028	µg/L	29.8	0.59%
QC value within limits for As 188.979 Recovery = 100.56%								
B 249.677†	30703.9	2.522	mg/L	0.0209	2522	µg/L	20.9	0.83%
QC value within limits for B 249.677 Recovery = 100.87%								
Ba 233.527†	41942.1	2.506	mg/L	0.0234	2506	µg/L	23.4	0.93%
QC value within limits for Ba 233.527 Recovery = 100.25%								
Be 313.107†	1821999.2	2.547	mg/L	0.0064	2547	µg/L	6.4	0.25%
QC value within limits for Be 313.107 Recovery = 101.89%								
Ca 317.933†	1014074.8	25.44	mg/L	0.042	25440	µg/L	42.2	0.17%
QC value within limits for Ca 317.933 Recovery = 101.77%								
Cd 214.440†	89222.3	2.495	mg/L	0.0166	2495	µg/L	16.6	0.67%
QC value within limits for Cd 214.440 Recovery = 99.81%								
Co 228.616†	15030.2	2.503	mg/L	0.0216	2503	µg/L	21.6	0.86%
QC value within limits for Co 228.616 Recovery = 100.12%								
Cr 205.560†	29069.0	5.072	mg/L	0.0446	5072	µg/L	44.6	0.88%
QC value within limits for Cr 205.560 Recovery = 101.44%								
Cu 327.393†	165025.8	5.078	mg/L	0.0543	5078	µg/L	54.3	1.07%
QC value within limits for Cu 327.393 Recovery = 101.55%								
Fe 238.204†	260090.1	10.13	mg/L	0.100	10130	µg/L	100.3	0.99%
QC value within limits for Fe 238.204 Recovery = 101.33%								
K 766.490†	177396.6	24.80	mg/L	0.258	24800	µg/L	257.6	1.04%
QC value within limits for K 766.490 Recovery = 99.18%								
Mg 279.077†	92575.4	25.28	mg/L	0.219	25280	µg/L	218.6	0.86%
QC value within limits for Mg 279.077 Recovery = 101.13%								
Mn 257.610†	647758.9	5.096	mg/L	0.0111	5096	µg/L	11.1	0.22%
QC value within limits for Mn 257.610 Recovery = 101.91%								
Mo 202.031†	1642.4	0.5145	mg/L	0.00366	514.5	µg/L	3.66	0.71%
QC value within limits for Mo 202.031 Recovery = 102.90%								
Na 589.592†	446179.6	25.57	mg/L	0.073	25570	µg/L	72.9	0.29%
QC value within limits for Na 589.592 Recovery = 102.29%								
Ni 231.604†	34441.7	5.104	mg/L	0.0448	5104	µg/L	44.8	0.88%
QC value within limits for Ni 231.604 Recovery = 102.08%								
Pb 220.353†	3588.8	2.457	mg/L	0.0089	2457	µg/L	8.9	0.36%
QC value within limits for Pb 220.353 Recovery = 98.29%								
Sb 206.836†	1647.3	2.557	mg/L	0.0234	2557	µg/L	23.4	0.92%
QC value within limits for Sb 206.836 Recovery = 102.29%								
Se 196.026†	1303.0	2.583	mg/L	0.0188	2583	µg/L	18.8	0.73%
QC value within limits for Se 196.026 Recovery = 103.34%								
Sn 189.927†	1147.2	2.558	mg/L	0.0118	2558	µg/L	11.8	0.46%
QC value within limits for Sn 189.927 Recovery = 102.31%								
Ti 334.940†	80284.5	0.5156	mg/L	0.00648	515.6	µg/L	6.48	1.26%
QC value within limits for Ti 334.940 Recovery = 103.13%								
Tl 190.801†	236.5	2.518	mg/L	0.0320	2518	µg/L	32.0	1.27%
QC value within limits for Tl 190.801 Recovery = 100.71%								
V 292.402†	44497.9	1.275	mg/L	0.0142	1275	µg/L	14.2	1.11%
QC value within limits for V 292.402 Recovery = 101.96%								
Zn 206.200†	94145.8	10.20	mg/L	0.052	10200	µg/L	52.4	0.51%
QC value within limits for Zn 206.200 Recovery = 102.00%								
Li 670.784†	475314.3	2.454	mg/L	0.0017	2454	µg/L	1.7	0.07%
QC value within limits for Li 670.784 Recovery = 98.15%								
Sr 421.552†	3055980.3	2.507	mg/L	0.0051	2507	µg/L	5.1	0.20%
QC value within limits for Sr 421.552 Recovery = 100.26%								

All analyte(s) passed QC.

Sequence No.: 36 Autosampler Location: 37

Sample ID: 1202003-46
Analyst:
Initial Sample Wt:
Dilution:

Date Collected: 2/13/2012 11:53:44 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-46

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	654789.0	102.8	%	0.83				0.81%
Ag 328.068†	-72.2						24.33	33.69%
Al 308.215†	-8.0	-0.0288	mg/L	0.01030	-28.75	µg/L	10.300	35.82%
As 188.979†	5.4	0.0159	mg/L	0.00761	15.94	µg/L	7.614	47.78%
B 249.677†	355.3	0.0292	mg/L	0.00228	29.20	µg/L	2.279	7.81%
Ba 233.527†	1126.3	0.0673	mg/L	0.00065	67.30	µg/L	0.645	0.96%
Be 313.107†	179.9	0.0003	mg/L	0.00005	0.2522	µg/L	0.04897	19.42%
Ca 317.933†	1103957.5	27.70	mg/L	0.188	27700	µg/L	188.1	0.68%
Cd 214.440†	-17.4	-0.0005	mg/L	0.00018	-0.4845	µg/L	0.17545	36.21%
Co 228.616†	-12.2	-0.0020	mg/L	0.00044	-2.029	µg/L	0.4365	21.51%
Cr 205.560†	23.0	0.0040	mg/L	0.00035	4.016	µg/L	0.3479	8.66%
Cu 327.393†	58.5	-0.0003	mg/L	0.00104	-0.3020	µg/L	1.04033	344.48%
Fe 238.204†	324.6	0.0126	mg/L	0.00032	12.65	µg/L	0.324	2.56%
K 766.490†	7321.9	1.023	mg/L	0.0162	1023	µg/L	16.2	1.59%
Mg 279.077†	24418.2	6.669	mg/L	0.0685	6669	µg/L	68.5	1.03%
Mn 257.610†	4869.0	0.0383	mg/L	0.00027	38.30	µg/L	0.270	0.71%
Mo 202.031†	1.4	0.0004	mg/L	0.00129	0.4463	µg/L	1.29365	289.86%
Na 589.592†	90306.3	5.176	mg/L	0.0216	5176	µg/L	21.6	0.42%
Ni 231.604†	-5.0	-0.0007	mg/L	0.00032	-0.7473	µg/L	0.32338	43.27%
Pb 220.353†	-23.5	-0.0162	mg/L	0.00546	-16.16	µg/L	5.460	33.79%
Sb 206.836†	6.9	0.0084	mg/L	0.00701	8.379	µg/L	7.0066	83.62%
Se 196.026†	8.2	0.0162	mg/L	0.00772	16.20	µg/L	7.719	47.65%
Sn 189.927†	19.1	0.0044	mg/L	0.00257	4.425	µg/L	2.5734	58.16%
Ti 334.940†	-17.1	-0.0001	mg/L	0.00005	-0.1098	µg/L	0.05387	49.06%
Tl 190.801†	7.3	0.0702	mg/L	0.00955	70.18	µg/L	9.549	13.61%
V 292.402†	24.3	0.0007	mg/L	0.00019	0.6966	µg/L	0.18758	26.93%
Zn 206.200†	29.3	0.0032	mg/L	0.00051	3.175	µg/L	0.5064	15.95%
Li 670.784†	1689.9	0.0087	mg/L	0.00018	8.724	µg/L	0.1797	2.06%
Sr 421.552†	259187.2	0.2126	mg/L	0.00062	212.6	µg/L	0.62	0.29%

Sequence No.: 37
Sample ID: 1202003-47
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 2/13/2012 11:57:27 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-47

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	643435.9	101.0	%	0.26				0.26%
Ag 328.068†	-114.8						29.31	25.54%
Al 308.215†	-22.1	-0.0276	mg/L	0.00785	-27.63	µg/L	7.845	28.39%
As 188.979†	39.0	0.0891	mg/L	0.00529	89.10	µg/L	5.286	5.93%
B 249.677†	1715.4	0.1403	mg/L	0.00183	140.3	µg/L	1.83	1.30%
Ba 233.527†	8097.7	0.4839	mg/L	0.00224	483.9	µg/L	2.24	0.46%
Be 313.107†	15.5	0.0000	mg/L	0.00005	0.0221	µg/L	0.05140	233.05%
Ca 317.933†	904177.1	22.68	mg/L	0.017	22680	µg/L	17.0	0.07%
Cd 214.440†	-2.4	-0.0002	mg/L	0.00009	-0.2054	µg/L	0.09163	44.62%
Co 228.616†	-8.0	-0.0013	mg/L	0.00102	-1.330	µg/L	1.0239	76.96%
Cr 205.560†	11.9	0.0026	mg/L	0.00150	2.605	µg/L	1.4960	57.42%
Cu 327.393†	-46.8	-0.0032	mg/L	0.00117	-3.164	µg/L	1.1688	36.94%
Fe 238.204†	90485.4	3.525	mg/L	0.0185	3525	µg/L	18.5	0.52%
K 766.490†	13145.9	1.837	mg/L	0.0033	1837	µg/L	3.3	0.18%
Mg 279.077†	14042.3	3.835	mg/L	0.0166	3835	µg/L	16.6	0.43%
Mn 257.610†	111484.2	0.8770	mg/L	0.00497	877.0	µg/L	4.97	0.57%
Mo 202.031†	5.2	0.0016	mg/L	0.00060	1.619	µg/L	0.5950	36.76%
Na 589.592†	983470.3	56.37	mg/L	0.094	56370	µg/L	93.9	0.17%
Ni 231.604†	-11.8	-0.0017	mg/L	0.00017	-1.743	µg/L	0.1677	9.62%
Pb 220.353†	-12.2	-0.0082	mg/L	0.00253	-8.212	µg/L	2.5255	30.75%
Sb 206.836†	1.4	-0.0023	mg/L	0.00931	-2.346	µg/L	9.3128	397.01%
Se 196.026†	3.2	0.0062	mg/L	0.00624	6.247	µg/L	6.2384	99.86%

Sn 189.927†	18.7	0.0105	mg/L	0.00864	10.48	µg/L	8.643	82.47%
Ti 334.940†	-22.4	-0.0001	mg/L	0.00006	-0.1436	µg/L	0.06040	42.05%
Tl 190.801†	7.1	0.0649	mg/L	0.02272	64.95	µg/L	22.715	34.97%
V 292.402†	35.4	0.0010	mg/L	0.00008	1.014	µg/L	0.0754	7.43%
Zn 206.200†	9.1	0.0010	mg/L	0.00027	0.9888	µg/L	0.26618	26.92%
Li 670.784†	25025.4	0.1292	mg/L	0.00071	129.2	µg/L	0.71	0.55%
Sr 421.552†	911730.7	0.7478	mg/L	0.00115	747.8	µg/L	1.15	0.15%

Sequence No.: 38
Sample ID: BS Li @25
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 2/13/2012 12:02:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BS Li @25

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	656590.5	103.1	%	0.28				0.27%
Ag 328.068†	-19.6						20.91	106.92%
Al 308.215†	12.9	0.0034	mg/L	0.00827	3.412	µg/L	8.2661	242.24%
As 188.979†	0.7	0.0017	mg/L	0.00275	1.709	µg/L	2.7465	160.72%
B 249.677†	66.6	0.0055	mg/L	0.00108	5.482	µg/L	1.0753	19.61%
Ba 233.527†	-4.5	-0.0003	mg/L	0.00046	-0.2695	µg/L	0.46059	170.88%
Be 313.107†	40.9	0.0001	mg/L	0.00004	0.0571	µg/L	0.04273	74.84%
Ca 317.933†	-91.3	-0.0023	mg/L	0.00096	-2.292	µg/L	0.9599	41.89%
Cd 214.440†	-17.4	-0.0005	mg/L	0.00013	-0.4867	µg/L	0.12938	26.58%
Co 228.616†	-15.2	-0.0025	mg/L	0.00061	-2.530	µg/L	0.6099	24.11%
Cr 205.560†	-2.5	-0.0004	mg/L	0.00025	-0.4316	µg/L	0.25252	58.51%
Cu 327.393†	-39.5	-0.0012	mg/L	0.00077	-1.214	µg/L	0.7731	63.67%
Fe 238.204†	-12.9	-0.0005	mg/L	0.00014	-0.5013	µg/L	0.14404	28.73%
K 766.490†	-3.4	-0.0005	mg/L	0.00413	-0.4785	µg/L	4.12784	862.59%
Mg 279.077†	18.7	0.0051	mg/L	0.00341	5.120	µg/L	3.4096	66.59%
Mn 257.610†	-75.1	-0.0006	mg/L	0.00002	-0.5905	µg/L	0.02132	3.61%
Mo 202.031†	0.7	0.0002	mg/L	0.00101	0.2285	µg/L	1.01106	442.45%
Na 589.592†	287.8	0.0165	mg/L	0.00514	16.49	µg/L	5.141	31.17%
Ni 231.604†	-8.6	-0.0013	mg/L	0.00111	-1.278	µg/L	1.1121	87.04%
Pb 220.353†	-2.5	-0.0017	mg/L	0.00423	-1.730	µg/L	4.2346	244.76%
Sb 206.836†	-8.6	-0.0140	mg/L	0.00868	-14.01	µg/L	8.684	61.97%
Se 196.026†	2.8	0.0055	mg/L	0.00021	5.460	µg/L	0.2146	3.93%
Sn 189.927†	0.8	0.0018	mg/L	0.00635	1.812	µg/L	6.3480	350.28%
Ti 334.940†	-39.6	-0.0003	mg/L	0.00024	-0.2544	µg/L	0.24048	94.54%
Tl 190.801†	-2.7	-0.0297	mg/L	0.01870	-29.73	µg/L	18.698	62.89%
V 292.402†	2.6	0.0001	mg/L	0.00022	0.0752	µg/L	0.22206	295.44%
Zn 206.200†	-8.7	-0.0009	mg/L	0.00029	-0.9433	µg/L	0.29262	31.02%
Li 670.784†	4694.5	0.0242	mg/L	0.00032	24.23	µg/L	0.325	1.34%
Sr 421.552†	-30.8	0.0000	mg/L	0.00003	-0.0253	µg/L	0.02564	101.38%

Sequence No.: 39
Sample ID: BS Li @25
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 2/13/2012 12:06:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BS Li @25

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	655701.2	102.9	%	0.36				0.35%
Ag 328.068†	-25.1						39.41	157.15%
Al 308.215†	-8.5	-0.0022	mg/L	0.00267	-2.236	µg/L	2.6664	119.28%
As 188.979†	0.5	0.0012	mg/L	0.01109	1.196	µg/L	11.0876	927.40%
B 249.677†	54.6	0.0045	mg/L	0.00018	4.496	µg/L	0.1776	3.95%
Ba 233.527†	2.2	0.0001	mg/L	0.00018	0.1304	µg/L	0.18204	139.59%
Be 313.107†	24.6	0.0000	mg/L	0.00003	0.0344	µg/L	0.02678	77.77%
Ca 317.933†	-248.7	-0.0062	mg/L	0.00244	-6.240	µg/L	2.4385	39.08%
Cd 214.440†	-18.9	-0.0005	mg/L	0.00005	-0.5293	µg/L	0.05115	9.66%
Co 228.616†	-12.9	-0.0021	mg/L	0.00101	-2.141	µg/L	1.0059	46.99%
Cr 205.560†	0.7	0.0001	mg/L	0.00055	0.1279	µg/L	0.55385	432.99%
Cu 327.393†	-58.6	-0.0018	mg/L	0.00083	-1.804	µg/L	0.8258	45.77%

Fe 238.204†	-8.8	-0.0003	mg/L	0.00020	-0.3436	µg/L	0.20134 58.59%
K 766.490†	-54.1	-0.0076	mg/L	0.00235	-7.559	µg/L	2.3543 31.15%
Mg 279.077†	9.7	0.0026	mg/L	0.00454	2.648	µg/L	4.5375 171.38%
Mn 257.610†	-67.5	-0.0005	mg/L	0.00003	-0.5309	µg/L	0.03165 5.96%
Mo 202.031†	4.6	0.0014	mg/L	0.00105	1.432	µg/L	1.0503 73.35%
Na 589.592†	94.0	0.0054	mg/L	0.00262	5.389	µg/L	2.6225 48.67%
Ni 231.604†	-8.9	-0.0013	mg/L	0.00093	-1.320	µg/L	0.9256 70.12%
Pb 220.353†	-1.7	-0.0012	mg/L	0.00282	-1.196	µg/L	2.8230 235.97%
Sb 206.836†	-4.9	-0.0079	mg/L	0.00320	-7.926	µg/L	3.2021 40.40%
Se 196.026†	4.2	0.0084	mg/L	0.00312	8.351	µg/L	3.1167 37.32%
Sn 189.927†	0.3	0.0006	mg/L	0.00534	0.6069	µg/L	5.33546 879.12%
Ti 334.940†	-2.7	0.0000	mg/L	0.00005	-0.0175	µg/L	0.05452 311.87%
Tl 190.801†	-2.3	-0.0252	mg/L	0.00760	-25.16	µg/L	7.597 30.19%
V 292.402†	10.5	0.0003	mg/L	0.00020	0.2996	µg/L	0.19719 65.82%
Zn 206.200†	-5.7	-0.0006	mg/L	0.00035	-0.6218	µg/L	0.34501 55.48%
Li 670.784†	4663.8	0.0241	mg/L	0.00062	24.08	µg/L	0.616 2.56%
Sr 421.552†	-64.1	-0.0001	mg/L	0.00002	-0.0526	µg/L	0.02003 38.07%

Sequence No.: 40
Sample ID: BS Li @25
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 2/13/2012 12:09:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BS Li @25

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	641746.4	100.7	%	0.55				0.55%
Ag 328.068†	27.1						21.52	79.39%
Al 308.215†	-10.5	-0.0028	mg/L	0.00684	-2.773	µg/L	6.8402	246.69%
As 188.979†	0.1	0.0003	mg/L	0.01106	0.2746	µg/L	11.06342	>999.9%
B 249.677†	52.6	0.0043	mg/L	0.00068	4.327	µg/L	0.6850	15.83%
Ba 233.527†	-1.2	-0.0001	mg/L	0.00002	-0.0694	µg/L	0.02485	35.80%
Be 313.107†	56.5	0.0001	mg/L	0.00002	0.0789	µg/L	0.01980	25.08%
Ca 317.933†	-142.3	-0.0036	mg/L	0.00134	-3.571	µg/L	1.3407	37.55%
Cd 214.440†	-12.7	-0.0004	mg/L	0.00004	-0.3535	µg/L	0.03937	11.14%
Co 228.616†	-11.0	-0.0018	mg/L	0.00037	-1.839	µg/L	0.3682	20.02%
Cr 205.560†	1.0	0.0002	mg/L	0.00059	0.1694	µg/L	0.58767	346.95%
Cu 327.393†	-37.6	-0.0012	mg/L	0.00055	-1.158	µg/L	0.5543	47.85%
Fe 238.204†	-2.9	-0.0001	mg/L	0.00036	-0.1144	µg/L	0.35519	310.48%
K 766.490†	0.2	0.0000	mg/L	0.00380	0.0247	µg/L	3.79858	>999.9%
Mg 279.077†	-3.4	-0.0009	mg/L	0.00181	-0.9273	µg/L	1.81462	195.68%
Mn 257.610†	-57.0	-0.0004	mg/L	0.00005	-0.4486	µg/L	0.05194	11.58%
Mo 202.031†	1.3	0.0004	mg/L	0.00062	0.3920	µg/L	0.61682	157.36%
Na 589.592†	28.8	0.0017	mg/L	0.00092	1.651	µg/L	0.9190	55.65%
Ni 231.604†	-6.0	-0.0009	mg/L	0.00045	-0.8948	µg/L	0.44510	49.74%
Pb 220.353†	0.0	0.0000	mg/L	0.00367	0.0058	µg/L	3.67077	>999.9%
Sb 206.836†	-7.0	-0.0114	mg/L	0.00526	-11.41	µg/L	5.259	46.09%
Se 196.026†	5.8	0.0114	mg/L	0.00569	11.43	µg/L	5.692	49.82%
Sn 189.927†	1.0	0.0023	mg/L	0.00694	2.284	µg/L	6.9421	303.97%
Ti 334.940†	12.0	0.0001	mg/L	0.00012	0.0769	µg/L	0.11913	154.95%
Tl 190.801†	-4.1	-0.0455	mg/L	0.01645	-45.47	µg/L	16.449	36.18%
V 292.402†	0.8	0.0000	mg/L	0.00013	0.0236	µg/L	0.12923	547.23%
Zn 206.200†	-4.4	-0.0005	mg/L	0.00047	-0.4759	µg/L	0.47463	99.74%
Li 670.784†	4654.9	0.0240	mg/L	0.00032	24.03	µg/L	0.316	1.31%
Sr 421.552†	-40.5	0.0000	mg/L	0.00003	-0.0333	µg/L	0.02936	88.30%

Sequence No.: 41
Sample ID: BS Li @25
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 42
Date Collected: 2/13/2012 12:13:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BS Li @25

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	638178.9	100.2	%	0.62				0.62%
Ag 328.068†	39.2						29.67	75.71%

Al 308.215†	-17.0	-0.0045	mg/L	0.00301	-4.476	µg/L	3.0114 67.28%
As 188.979†	0.5	0.0013	mg/L	0.00635	1.253	µg/L	6.3535 506.87%
B 249.677†	39.6	0.0033	mg/L	0.00025	3.258	µg/L	0.2451 7.52%
Ba 233.527†	-1.0	-0.0001	mg/L	0.00007	-0.0576	µg/L	0.06727 116.76%
Be 313.107†	44.3	0.0001	mg/L	0.00006	0.0620	µg/L	0.05509 88.87%
Ca 317.933†	-148.9	-0.0037	mg/L	0.00324	-3.736	µg/L	3.2434 86.83%
Cd 214.440†	-10.9	-0.0003	mg/L	0.00016	-0.3040	µg/L	0.16321 53.69%
Co 228.616†	-13.3	-0.0022	mg/L	0.00104	-2.218	µg/L	1.0404 46.90%
Cr 205.560†	1.4	0.0002	mg/L	0.00098	0.2470	µg/L	0.97683 395.51%
Cu 327.393†	-30.3	-0.0009	mg/L	0.00010	-0.9337	µg/L	0.10108 10.83%
Fe 238.204†	-9.5	-0.0004	mg/L	0.00015	-0.3705	µg/L	0.14688 39.65%
K 766.490†	103.0	0.0144	mg/L	0.00597	14.39	µg/L	5.969 41.48%
Mg 279.077†	-0.9	-0.0003	mg/L	0.00223	-0.2502	µg/L	2.22719 890.15%
Mn 257.610†	-52.2	-0.0004	mg/L	0.00010	-0.4107	µg/L	0.10249 24.96%
Mo 202.031†	3.3	0.0010	mg/L	0.00109	1.040	µg/L	1.0856 104.41%
Na 589.592†	32.4	0.0019	mg/L	0.00120	1.854	µg/L	1.1982 64.62%
Ni 231.604†	-5.7	-0.0008	mg/L	0.00070	-0.8449	µg/L	0.70080 82.94%
Pb 220.353†	-7.2	-0.0049	mg/L	0.00371	-4.929	µg/L	3.7104 75.28%
Sb 206.836†	-3.4	-0.0055	mg/L	0.00387	-5.467	µg/L	3.8656 70.71%
Se 196.026†	1.9	0.0038	mg/L	0.00842	3.844	µg/L	8.4245 219.15%
Sn 189.927†	0.7	0.0016	mg/L	0.00102	1.565	µg/L	1.0159 64.90%
Ti 334.940†	-8.1	-0.0001	mg/L	0.00009	-0.0518	µg/L	0.09406 181.73%
Tl 190.801†	-1.8	-0.0200	mg/L	0.01001	-19.97	µg/L	10.009 50.12%
V 292.402†	11.9	0.0003	mg/L	0.00035	0.3414	µg/L	0.34571 101.27%
Zn 206.200†	-4.2	-0.0005	mg/L	0.00065	-0.4540	µg/L	0.64572 142.23%
Li 670.784†	4784.1	0.0247	mg/L	0.00019	-24.70	µg/L	0.186 0.75%
Sr 421.552†	-74.7	-0.0001	mg/L	0.00003	-0.0613	µg/L	0.02512 41.01%

Sequence No.: 42
Sample ID: IBL
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/13/2012 12:16:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: IBL

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	639960.7	100.4	%	1.09				1.09%
Ag 328.068†	8.2						27.62	338.10%
Unable to evaluate QC.								
Al 308.215†	-24.3	-0.0064	mg/L	0.00265	-6.396	µg/L	2.6547	41.51%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	1.7	0.0040	mg/L	0.00334	4.026	µg/L	3.3403	82.97%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	37.1	0.0031	mg/L	0.00035	3.052	µg/L	0.3463	11.35%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	1.9	0.0001	mg/L	0.00030	0.1115	µg/L	0.29660	266.05%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	30.7	0.0000	mg/L	0.00005	0.0428	µg/L	0.05440	126.97%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	6.6	0.0002	mg/L	0.00420	0.1645	µg/L	4.20371	>999.9%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 214.440†	-4.2	-0.0001	mg/L	0.00011	-0.1162	µg/L	0.10614	91.34%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	-7.3	-0.0012	mg/L	0.00034	-1.218	µg/L	0.3367	27.63%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	-2.2	-0.0004	mg/L	0.00106	-0.3903	µg/L	1.05855	271.23%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 327.393†	-19.0	-0.0006	mg/L	0.00059	-0.5856	µg/L	0.58874	100.54%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	-2.6	-0.0001	mg/L	0.00013	-0.1007	µg/L	0.12655	125.62%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	59.8	0.0084	mg/L	0.00566	8.364	µg/L	5.6583	67.65%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	0.0	0.0000	mg/L	0.00300	0.0110	µg/L	2.99857	>999.9%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-26.0	-0.0002	mg/L	0.00008	-0.2043	µg/L	0.07887	38.60%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	3.0	0.0010	mg/L	0.00019	0.9504	µg/L	0.19193	20.19%
QC value within limits for Mo 202.031 Recovery = Not calculated								

Na 589.592†	99.8	0.0057 mg/L	0.00429	5.717 µg/L	4.2904	75.04%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-3.4	-0.0005 mg/L	0.00018	-0.5061 µg/L	0.17791	35.15%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	4.3	0.0029 mg/L	0.00449	2.942 µg/L	4.4917	152.69%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	0.1	0.0003 mg/L	0.00618	0.2514 µg/L	6.18284	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	3.2	0.0063 mg/L	0.00965	6.299 µg/L	9.6507	153.20%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	3.9	0.0088 mg/L	0.00856	8.790 µg/L	8.5622	97.41%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 334.940†	-3.5	0.0000 mg/L	0.00025	-0.0224 µg/L	0.24584	>999.9%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-2.9	-0.0315 mg/L	0.02703	-31.53 µg/L	27.034	85.73%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	2.7	0.0001 mg/L	0.00038	0.0767 µg/L	0.38132	497.25%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	4.6	0.0005 mg/L	0.00032	0.5025 µg/L	0.32385	64.44%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Li 670.784†	47.9	0.0002 mg/L	0.00013	0.2475 µg/L	0.12921	52.20%
QC value within limits for Li 670.784 Recovery = Not calculated						
Sr 421.552†	-14.5	0.0000 mg/L	0.00003	-0.0119 µg/L	0.02851	240.26%
QC value within limits for Sr 421.552 Recovery = Not calculated						

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 43
Sample ID: CCV@A/B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/13/2012 12:20:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV@A/B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	628912.3	98.71	%	0.477				0.48%
Ag 328.068†	-290.0						12.37	4.27%
Al 308.215†	38580.9	10.14	mg/L	0.086	10140	µg/L	86.0	0.85%
QC value within limits for Al 308.215 Recovery = 101.38%								
As 188.979†	2129.1	5.089	mg/L	0.0085	5089	µg/L	8.5	0.17%
QC value within limits for As 188.979 Recovery = 101.78%								
B 249.677†	31230.9	2.565	mg/L	0.0222	2565	µg/L	22.2	0.86%
QC value within limits for B 249.677 Recovery = 102.60%								
Ba 233.527†	42391.8	2.533	mg/L	0.0167	2533	µg/L	16.7	0.66%
QC value within limits for Ba 233.527 Recovery = 101.33%								
Be 313.107†	1842624.9	2.576	mg/L	0.0033	2576	µg/L	3.3	0.13%
QC value within limits for Be 313.107 Recovery = 103.04%								
Ca 317.933†	1024600.0	25.71	mg/L	0.055	25710	µg/L	55.1	0.21%
QC value within limits for Ca 317.933 Recovery = 102.82%								
Cd 214.440†	89868.5	2.513	mg/L	0.0176	2513	µg/L	17.6	0.70%
QC value within limits for Cd 214.440 Recovery = 100.53%								
Co 228.616†	15220.4	2.535	mg/L	0.0248	2535	µg/L	24.8	0.98%
QC value within limits for Co 228.616 Recovery = 101.38%								
Cr 205.560†	29518.4	5.151	mg/L	0.0490	5151	µg/L	49.0	0.95%
QC value within limits for Cr 205.560 Recovery = 103.01%								
Cu 327.393†	167469.0	5.153	mg/L	0.0460	5153	µg/L	46.0	0.89%
QC value within limits for Cu 327.393 Recovery = 103.06%								
Fe 238.204†	265354.6	10.34	mg/L	0.025	10340	µg/L	24.5	0.24%
QC value within limits for Fe 238.204 Recovery = 103.38%								
K 766.490†	180676.6	25.25	mg/L	0.030	25250	µg/L	29.7	0.12%
QC value within limits for K 766.490 Recovery = 101.01%								
Mg 279.077†	93497.7	25.53	mg/L	0.206	25530	µg/L	206.3	0.81%
QC value within limits for Mg 279.077 Recovery = 102.14%								
Mn 257.610†	657635.1	5.173	mg/L	0.0073	5173	µg/L	7.3	0.14%
QC value within limits for Mn 257.610 Recovery = 103.46%								
Mo 202.031†	1660.2	0.5201	mg/L	0.00289	520.1	µg/L	2.89	0.56%
QC value within limits for Mo 202.031 Recovery = 104.01%								
Na 589.592†	452923.8	25.96	mg/L	0.031	25960	µg/L	30.6	0.12%
QC value within limits for Na 589.592 Recovery = 103.84%								
Ni 231.604†	34918.7	5.174	mg/L	0.0444	5174	µg/L	44.4	0.86%

QC value within limits for Ni 231.604 Recovery = 103.49%						
Pb 220.353†	3641.1	2.493 mg/L	0.0098	2493 µg/L	9.8	0.39%
QC value within limits for Pb 220.353 Recovery = 99.72%						
Sb 206.836†	1677.8	2.605 mg/L	0.0205	2605 µg/L	20.5	0.79%
QC value within limits for Sb 206.836 Recovery = 104.21%						
Se 196.026†	1320.4	2.618 mg/L	0.0141	2618 µg/L	14.1	0.54%
QC value within limits for Se 196.026 Recovery = 104.72%						
Sn 189.927†	1152.7	2.570 mg/L	0.0252	2570 µg/L	25.2	0.98%
QC value within limits for Sn 189.927 Recovery = 102.79%						
Ti 334.940†	81162.5	0.5213 mg/L	0.00545	521.3 µg/L	5.45	1.05%
QC value within limits for Ti 334.940 Recovery = 104.26%						
Tl 190.801†	239.8	2.552 mg/L	0.0175	2552 µg/L	17.5	0.68%
QC value within limits for Tl 190.801 Recovery = 102.08%						
V 292.402†	45140.1	1.293 mg/L	0.0102	1293 µg/L	10.2	0.79%
QC value within limits for V 292.402 Recovery = 103.43%						
Zn 206.200†	94896.1	10.28 mg/L	0.044	10280 µg/L	43.8	0.43%
QC value within limits for Zn 206.200 Recovery = 102.82%						
Li 670.784†	482338.1	2.490 mg/L	0.0007	2490 µg/L	0.7	0.03%
QC value within limits for Li 670.784 Recovery = 99.60%						
Sr 421.552†	3125422.0	2.563 mg/L	0.0012	2563 µg/L	1.2	0.04%
QC value within limits for Sr 421.552 Recovery = 102.54%						

All analyte(s) passed QC.

2-10

ICP-AES METALS Technical Review Checklist

(200.7, 6010) Hardness_____

For Internal Use Only

Site Name: Dimock WO#: 1202003

Analyst: JR Dorsey Date given to Reviewer: 2/10/12

Matrix (circle): Solid / ~~Aqueous~~ / Other _____ SOP R3QA159-021511 / R3QA155-021511

(If TCLP is run: SOP R3QA135-021011)

Program (circle): ~~Superfund~~ / RCRA / Compliance NPDES or SDWA / Other: _____

The signature below indicates the following: 13-31

- This data meets the needs of the customer according to the request.
- The analysis was performed as per the SOP, or exceptions documented.
- All documentation needed to recreate the analyses has been reviewed.
- Data Review status set to Peer Reviewed in Element.

Peer Reviewer signature _____ Date accepted 2-14-12

If any data for this case is stored with another case file, give Site Name and WO#_____

Peer Reviewer Completes Section Below:

General:	YES	NO	N/A	Comments
Raw data is identified with sample ID's, site name, WO#, analyst name, date of analysis.	✓			
Quality Control:				
First CCV ±5% and RSD <3;	✓			
All other CCV ±10% , every 10 samples and end of run;	✓			
For Compliance samples (SDWA and NPDES):				
SCV ±5% (each time, including PTs)	✓			
All other samples SCV ±10%			✓	
LCV ±30%;	✓			
IBL < |Reporting limit|, analyzed with each CCV ;	✓			
BS (LCS) ±15%;	✓			
SRM (soils) within vendor acceptance limits;			✓	
BLK < |Reporting limit| (if >Reporting Limit **and** >1/10 of sample - must qualify)	✓			
MS [±30%] unless spike is <30% of sample value;	✓			
RPDs from DUP ≤20% aqueous & 35% soils;	✓			
Sample results < CAL or within documented linear range;	✓			

Interference Checks:

Spectral overlays or 2nd wavelength used or interfering elements not present above CAL	✓			
IFA recovery at ±20%;	✓			
Non-interfering elements ± | Reporting limit | or calculated range from 200.7;	✓			

Calculations/Report:

Calculations and transcriptions checked.	✓			
Element Draft Report reviewed.	✓			
Deviations and problems documented.	✓			

NOTE: When soils are being reported, the *sample qualifier* 'dry' or 'wet' must be entered so that it appears in the header of the Element report. This will signify that the data was report 'wet weight' or 'dry weight' as appropriate.

Additional Comments by Peer Reviewer:

Analyst Ensures that the Data Case File is Complete and Accurate:

- ✓ Bench sheet (TCLP prep log)
- ✓ IEC tables
- ✓ Instrument run log
- ✓ Standard/Reagent Prep log
- ✓ TV sheets
- ___ Element Peer Review report
- ✓ Raw data
- ✓ Data status set to analyzed

Additional Comments by Analyst on data issues:

DIM0216291 DIM0216614

On-Demand Data Checklist
(used in addition to routine TRC)
For Internal Use Only

Parameter: Li, Sr, Sn + Ti
Procedure/Method/Reference: 200.7

Site Name: Dimock WO#: 1202003
Analyst: JR Dorsey

The signature below indicates the following:
• The analysis was performed as per the On-Demand requirements below.

Peer Reviewer signature [signature] Date accepted 2:14·12

Peer Reviewer Completes Section Below:

This is a special request which falls outside our routine protocols. Therefore, these samples were analyzed and the quality control (QC) were evaluated based on the "On Demand" criteria. These protocols include all the QC checks as per routine analyses plus special verification of the performance of the analytical method at the reported quantitation limit/s. These protocols are specified in the EPA Region III OASQA Laboratory Quality Manual, current version.

Quality Control:	**YES**	**NO**	**N/A**	**Comments**
A written procedure or reference must be available for the method being performed and referenced in the narrative. If the method to be performed is unique, the procedures must be fully documented.	✓			
Calibration of the instrumentation or analytical procedure must be according to the method or procedure.	✓			
Calibration verified by analysis of second source standard (SCV, SRM), if available. Concentration must be in the range of the calibration. Results must be within the method, procedure, client or in-house limits.	✓			
Analysis of one method blank (BLK) with each batch. Ideally, the results should be less than the expected quantitation levels set by the method, procedure, or in-house requirements.	✓			
Analysis of one matrix spike (MS) with each batch. For samples or parameters which do not lend themselves to matrix spiking, a BS or SRM sample must be analyzed. Results of spikes must be within the method, procedure, client or in-house limits.	✓			
Analysis of one duplicate analyses (DUP) or a quality control sample such as an SRM or BS with each batch. If duplicate analyses is not possible, e.g, insufficient sample quantity, a quality control sample must be analyzed in duplicate, if available. Results of duplicate analyses must be				

within the method, procedure, client or in-house limits. ✓

At least one blank spike (BS) must be carried through the entire method and analyzed with each batch. The concentration of the BS should be at the quantitation level or at the level of the expected sample results, if known. Results of the BS must be within the method, procedure, client or in-house limits. ✓

Any additional quality control items, such as surrogates, internal standards, etc., which the referenced method or procedure requires should be analyzed. Results must be within the method or, procedure limits. ✓

The analyst must document the impact on the usability of the reported data by applying qualifier codes if applicable and including a summary in the case file. ✓

Additional Comments:

DIM0216291 DIM0216616

EPA Region 3 - OASQA - METALS - SAMPLE PREPARATION/TEMPERATURE LOG

BB20803 bch_metals.rpt

Project: DAS R33907

Work Order No: 1202003

Site Name: Dimock Residential Groundwater

Analysis: Total Metals by 200.7
Total Metals by 200.8

Matrix: Water

Location: Analyst
EPA #3 Shelf 2B

Client: OSWER - Emergency Response

Account#: 2012T03N303DC6A3TARS00

Method/SOP: EPA 200.7/R3QA159
EPA 200.8/R3QA116

Comments from WO:

Analyst: JLD Oasey	Solid samples are dried and prepared according to digestion SOP.	Certificate of Analysis Log#: 2
Sample Prep Date: 2/9/12	BS/MS spike Soln Bar Code: 12713/12714	HNO3 Bar Code: 11152 Vol. used 1 mL
DI Water Resistivity > 18 (MΩ-cm) (Y) / N	BS/MS ICP-MS Spike Units: (µL)	HCL Bar Code: 11148 Vol. used .5 mL
Hot Block1Time/Temp start: 8:30 / 90 °C	BS/MS ICP Spike Units: (µL)	Reagent purity correct (Y) / N
Hot Block1 Time/Temp stop: 2:00 / 95 °C	Pipets Log# 11 Balance Log# 1	SRM ID — Bar Code —
Digestion SOP: R3-QA155		

Li spk

0.5 mL of 10,000 ppm stock BC# 11808 into 100 mL

200.7 – .5 mL added

200.8 – .05 mL added

EPA Region 3 - OASQA - METALS - SAMPLE PREPARATION/TEMPERATURE LOG

BB20803 bch_metals.rpt

LabNumber	Cont ID	Sample Type	pH	Initial (mL)	Final (mL)	Spike1	Spike1 Amount µl	Spike2	Spike2 Amount µl	SourceID	ExtractionComments	Observations
1202003-13	D	SAM	<2	50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-14	D	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-15	D	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-16	D	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-17	D	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-18	D	FRB		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-19	D	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-20	D	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-24	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-25	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-26	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-27	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-28	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-29	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-30	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-31	A	FRB	✓	50	50						71/71 Drinking Water (Total/Dissolved)	
BB20803-BLK1				50	50					-		
BB20803-BLK2				50	50					-		
BB20803-BS1				50	50	0600208	50	0600209	50	-		
BB20803-BS2				50	50	0600208	500	0600209	500	-		
BB20803-DUP1				50	50					1202003-14		
BB20803-DUP2				50	50					1202003-14		
BB20803-DUP3				50	50					1202003-26		

EPA Region 3 - OASQA - METALS - SAMPLE PREPARATION/TEMPERATURE LOG

BB20803 bch_metals.rpt

LabNumber	Cont ID	Sample Type	pH	Initial (mL)	Final (mL)	Spike1	Spike1 Amount µl	Spike2	Spike2 Amount µl	SourceID	ExtractionComments	Observations
BB20803-DUP4				50	50					1202003-26		
BB20803-MS1				50	50	0600208	50	0600209	50	1202003-17		
BB20803-MS2				50	50	0600208	500	0600209	500	1202003-17		
BB20803-MS3				50	50	0600208	50	0600209	50	1202003-28		
BB20803-MS4				50	50	0600208	500	0600209	500	1202003-28		

RUN LOG FOR 3300DV OPTIMA
DIMOCK 1202003

JR DORSEY 02/10/2012

JRDorsey 2/10/12

IBL
CALA
CALB
IBL
LCV LI/SR
LCV Li @ ~~50~~ 5 ppb
LCV Li @ 50 ppb
LCV
CCV@A/B
SCV@LVM – made wrong, remake
SCV@LVM
IFA@1
IFA@2
IFA@3
LCV Li @ 50
BB20803-BLK2
BB20803-BS2
1202003-13
1202003-14
BB20803-DUP2
1202003-15
1202003-16
1202003-17
BB20803-MS2
IBL
CCV@A/B
1202003-18
1202003-19
1202003-20
1202003-24
1202003-25
1202003-26
BB20803-DUP4
1202003-27
1202003-28
BB20803-MS4
IBL
CCV@A/B
1202003-29
1202003-30
1202003-31
IBL
CCV@A/B

OASQA TRUE VALUES for ICP Standards and QC

CAL stock	ICP	CCV ±5% (ppm)	SCV ±5%/±10% (ppm) (First time ±5%, all others ±10%)	LCV ±30% (ppm)	BS/MS ±15/30% (ppm) (based on 0.5ml stock to 50 mL)	IFA1 ± 20% (ppm)	IFA2 ± 20% (ppm)	IFA2 ±20% (ppm)
AG	**Ag**	0.100	0.100	0.010	0.050			
B	**Al**	10.00	4.00	0.200	2.00	250 ((ag),as,cd, pb,sb,tl,zn)		
B	**As**	5.00	4.00	0.200	0.500			
A	**Ba**	2.50	4.00	0.200	2.00			
A	**Be**	2.50	4.00	0.005	0.050			
A	**B**	2.50	4.00	0.200	0.500			
B	**Ca**	25.00	4.00	0.500	10.00	250(al,b,cu,sn)		
A	**Cd**	2.50	4.00	0.005	0.050			
A	**Co**	2.50	4.00	0.050	0.500			
B	**Cr**	5.00	4.00	0.010	0.500			50 (as,be,cd,sb,zn)
B	**Cu**	5.00	4.00	0.025	0.500			20 (ag,pb,(cd))
B	**Fe**	10.00	4.00	0.100	5.00		250(as,ag,cd,cr,ni, pb,sb,tl,zn)	
B	**K**	25.00	40.00	2.000	20.00			
	Li	2.50*	4.00	0.200*	0.500			
B	**Mg**	25.00	4.00	0.500	10.00		250	
B	**Mn**	5.00	4.00	0.015	0.500			50 (b)
A	**Mo**	0.500	4.00	0.200	0.500			
B	**Na**	25.00	4.00	1.000	10.00		250	
B	**Ni**	5.00	4.00	0.040	0.500	50 (cd,cr,pb,sb)		
A	**Pb**	2.50	4.00	0.050	0.500			
A	**Sb**	2.50	4.00	0.060	0.500			
A	**Se**	2.50	4.00	0.200	0.500			
A	**Sn**	2.50	1.00*	0.200	0.500			
	Sr	2.50*	4.00	0.200*	0.500			
A	**Ti**	0.500	4.00	0.200	0.500			
A	**Tl**	2.50	4.00	0.200	0.500			
	U				0.500			
A	**V**	1.25	4.00	0.050	0.500			
B	**Zn**	10.00	4.00	0.020	0.500			

* need to be added separately

( ) = most likely analytes to be interfered with

TCLP ppm levels (As-5, Ba-100, Cd-1, Cr-5, Pb-5, Se-1, Ag-5)

IEC File Last Saved: 1/5/2012 2:35:27 PM
Printed On: 2/10/2012 1:09:38 PM

Results Data Set Name: DV09818
Method Name: IEC IFA rechec
Results Library: C:\pe\Administrator\Results\Results.md

Interfering Analytes

	Analytes	Al 308.215	Ca 317.933	Cr 205.560	Cu 327.393
1	**Ag 328.068**	0.23	0	0	0.5
2	**Al 308.215**	n/a	0.961621	0	0
3	**As 188.979**	-0.1	0	-6	3
4	**B 249.677**	0	0	0	0
6	**Be 313.107**	0	0	-0.2	0
8	**Cd 214.440**	0.18	0	-0.5	-0.3
10	**Cr 205.560**	0	0	n/a	0
11	**Cu 327.393**	0	0.0759573	0	n/a
19	**Pb 220.353**	0.1	0	0.4	0
20	**Sb 206.836**	0.9	0	15	0
22	**Sn 189.927**	0	1.4	0	0
24	**Tl 190.801**	3.2	0	0	0
27	**Zn 206.200**	0.1	0	0.7	0

IEC File Last Sayed: 1/5/2012 2:35:27 PM
Printed On: 2/10/2012 1:09:38 PM

Results Data Set Name: DV09818
Method Name: IEC IFA rechec
Results Library: C:\pe\Administrator\Results\Results.md

Interfering Analytes

	Analytes	Fe 238.204	Mg 279.077	Mn 257.610	Ni 231.604
1	**Ag 328.068**	-0.55	0	0	-0.1
2	**Al 308.215**	0	0	0	0
3	**As 188.979**	0.2	-0.5	6.2	0
4	**B 249.677**	0	0	1	0
6	**Be 313.107**	0	0	0	0
8	**Cd 214.440**	0.04	0	0	-0.1
10	**Cr 205.560**	-0.15	0	0	0.5
11	**Cu 327.393**	0	0	0	0
19	**Pb 220.353**	-0.05	0	0	0.8
20	**Sb 206.836**	0.6	0.4	1	2.4
22	**Sn 189.927**	0	0	0	0
24	**Tl 190.801**	2	1.6	0	0
27	**Zn 206.200**	0	0	0	0

IEC File Last Saved: 1/5/2012 2:35:27 PM
Printed On: 2/10/2012 1:09:38 PM

Results Data Set Name: DV09818
Method Name: IEC IFA rechec
Results Library: C:\pe\Administrator\Results\Results.md

Interfering Analytes

	Analytes	Ti 334.940
1	**Ag 328.068**	0
2	**Al 308.215**	0
3	**As 188.979**	-10
4	**B 249.677**	0
6	**Be 313.107**	0
8	**Cd 214.440**	0
10	**Cr 205.560**	0
11	**Cu 327.393**	0
19	**Pb 220.353**	0
20	**Sb 206.836**	-0.8
22	**Sn 189.927**	0
24	**Tl 190.801**	0
27	**Zn 206.200**	0

EPA - OASQA - ICP Standard/Reagent Preparation

Perkin Elmer 3300 OPTIMA

Analyst: JR Donsey Date: 2/10/12 Pipets Logbook # SNB11

Run Filename: DV120210 (all electronic files saved using Run Filename) SOP #: R3-QA159

SITE/WO#: Dimock 1202003 Reagent Purity checked ✓

SCV in 2% nitric / 2% HCl matrix (**made daily**): or alternate matrix of _____
(diluted with IBL)

* Stock Solution	Expiration Date	Stock Conc	Vendor	Bar Code	Stock Volume	Final Volume	Final Conc	Check if used
QC-7A	1-12	100 mg/L 1000 mg/L (K)	Spex	13852	0.5 ml	12.5 ml	see TV sheet	✓
QC-21	1-12	100 mg/L	Spex	13853	0.5ml	12.5 ml	see TV sheet	✓
QC-7A (Ag)	1-12	50 mg/L	Spex	13853	0.05ml	25 ml	0.100 mg/L	

* See Certificate of Analysis for analytes.

Internal Standard in 2% nitric matrix (made as needed...no expiration date applicable)

Stock Solution	Stock Conc	Vendor	Bar Code	Stock Volume	Nitric Volume	Final Volume	Final Conc
Yttrium	1000 mg/L	High Purity	4004	5 mL	10 mL	500 mL	10mg/L

Calibration Standards (CAL) and IBL in 2% nitric / 2% HCl matrix (2 mL acid per 100 mL solution) or alternate matrix of _____

	* Stock Soln and Conc	Vendor	Bar Code	Stock Volume	Final Volume	Final Conc	Date made/ Preparer	Check if used
IBL	na	na	na	na	1000 mL	na	made daily	√
CAL A	CAL STD A-R Solution A+B (see certificate)	High Purity	11004 11002	10 mL A 10 mL B	1000 ml	see TV sheet	3/11 jrd	
CAL B	CAL STD B: Solution A+B (see certificate)	High Purity	11010 11002	10 mL A 10 mL B	1000 ml	see TV sheet	10/11 jrd	
CAL AG	Silver 1000 mg/L	High Purity	11884	0.02 mL	100 ml	0.20 mg/L		
CAL BS								
CAL A	CAL STD A-R Solution A+B (see certificate)	High Purity	11004 11002	2.5 mL A 2.5 mL B	200 ml	see TV sheet	2/2/12 jrd	✓
	Li @ 10,000 ppm Sr @1000 ppm	High Purity High Purity	11008 11882	0.1ml 1.0 ml				
CAL B	CAL STD B: Solution A+B (see certificate)	High Purity	11010 11002	2.5 mL A 2.5 mL B	200 ml	see TV sheet	2/2/12 jrd	✓

* See Certificate of Analysis for analytes and initial concentrations.

EPA - OASQA - ICP Standard/Reagent Preparation
Perkin Elmer 3300 OPTIMA

Other QC standards in 2% nitric / 2% HCl matrix (2 mL acid per 100 mL solution) or alternate matrix of _____

	*Stock Soln and Concentration	Vendor	Bar Code	Stock Volume	Final Volume	Final Conc	Date made/ Preparer	Check if used
LCV (10:1)	EPA-CRDL-RR (See certificate) + 1000 mg/L (Ag)	High Purity EM	5759 3355 (Ag)	0.5 mL 0.01mL	100 mL 100 mL	See below^ 0.1 mg/L	1/11 JRD	✓
^LCV made daily by diluting the LCV(10:1) solution by 10X using the IBL. See TV sheet for final concs.								
LCV ~~(Ag)~~	Li & Sr	Dilute	SC4 20X	TV =	.200 ppm		Jrd 2/10/12 ppb	✓
		Dilute	Above 4X	TV = 50 ppb		Dilute	10X TV=10	✓
IFA 1	10,000 mg/L Ca 10,000 mg/L Al 10,000 mg/L Ni	High Purity High Purity High Purity	10171 11887 5971	5 mL 5 mL 1 mL	200 mL	250 mg/L 250 mg/L 50 mg/L	1/2012 jrd	✓
IFA 2	10,000 mg/L Na 10,000 mg/L Mg 10,000 mg/L Fe	High Purity High Purity High Purity	11808 10172 11886	5 mL 5 mL 5 mL	200 mL	250 mg/L 250 mg/L 250 mg/L	6/11 rc	✓
IFA 3	10,000 mg/L Mn 10,000 mg/L Cu 10,000 mg/L Cr	High Purity High Purity High Purity	5974 5972 5973	1 mL 0.4 mL 1 mL	200 mL	50 mg/L 20 mg/L 50 mg/L	1/2012 jrd	✓

* See Certificate of Analysis for analytes and initial concentrations.

Check standards (made daily) Matrix will be the same as the Calibration Standards (CAL) and IBL (lcb)

CCV Solution ID	Prepared by diluting 1:1	Final Conc	Check if used
CCV AB	CAL A plus CAL B	see TV sheet	✓
CCV AG	CAL AG plus IBL	0.10 mg/L	
CCV BS	CAL BS plus IBL	2.5 mg/L	

Reagent Acid Stocks

	Vendor	Bar Code		Vendor	Bar Code
Nitric Acid	Fisher	11152	HCl Acid	Fisher	11148

Certificates of Analysis Logbook # _____SNB 2_____

Comments:_____

_____

_____

J. Dimock 2/10/12

Analysis Begun

Start Time: 2/10/2012 9:19:40 AM
Logged In Analyst: Optima
Spectrometer Model: Optima 3300 DV, S/N 069N9033001
Plasma On Time: 2/10/2012 8:02:25 AM
Technique: ICP Continuous
Autosampler Model: AS-91

120203
Dimock

Sample Information File: C:\pe\Administrator\Sample Information\BA20301.sif
Batch ID: BB20803
Results Data Set: DV120210
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: IBL
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 2/10/2012 9:19:40 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: IBL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	620428.8	7465.64	1.20%	100.0	%
Ag 328.068†	1133.4	20.12	1.78%	[0.00]	mg/L
Al 308.215†	329.3	18.76	5.70%	[0.00]	mg/L
As 188.979†	-0.5	1.53	288.74%	[0.00]	mg/L
B 249.677†	-24.5	6.53	26.65%	[0.00]	mg/L
Ba 233.527†	30.8	4.66	15.14%	[0.00]	mg/L
Be 313.107†	-702.1	28.73	4.09%	[0.00]	mg/L
Ca 317.933†	7484.4	62.43	0.83%	[0.00]	mg/L
Cd 214.440†	280.6	8.87	3.16%	[0.00]	mg/L
Co 228.616†	170.9	5.06	2.96%	[0.00]	mg/L
Cr 205.560†	-0.4	0.14	31.55%	[0.00]	mg/L
Cu 327.393†	-63.9	23.58	36.89%	[0.00]	mg/L
Fe 238.204†	38.8	9.12	23.47%	[0.00]	mg/L
K 766.490†	2582.4	59.07	2.29%	[0.00]	mg/L
Mg 279.077†	-156.5	14.22	9.09%	[0.00]	mg/L
Mn 257.610†	731.9	15.70	2.15%	[0.00]	mg/L
Mo 202.031†	27.0	5.10	18.87%	[0.00]	mg/L
Na 589.592†	1568.3	31.99	2.04%	[0.00]	mg/L
Ni 231.604†	11.4	2.97	25.94%	[0.00]	mg/L
Pb 220.353†	60.8	3.83	6.30%	[0.00]	mg/L
Sb 206.836†	156.6	6.05	3.86%	[0.00]	mg/L
Se 196.026†	40.7	2.29	5.63%	[0.00]	mg/L
Sn 189.927†	15.3	1.16	7.56%	[0.00]	mg/L
Ti 334.940†	421.3	35.31	8.38%	[0.00]	mg/L
Tl 190.801†	37.6	3.45	9.20%	[0.00]	mg/L
V 292.402†	14.0	4.75	33.88%	[0.00]	mg/L
Zn 206.200†	175.7	4.27	2.43%	[0.00]	mg/L
Li 670.784†	1001.9	27.36	2.73%	[0.00]	mg/L
Sr 421.552†	5.5	19.10	344.75%	[0.00]	mg/L

Sequence No.: 2
Sample ID: CALA
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 2/10/2012 9:23:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	618819.5	4116.11	0.67%	99.74	%
B 249.677†	61849.7	403.15	0.65%	[5.00]	mg/L
Ba 233.527†	85591.5	373.91	0.44%	[5.00]	mg/L
Be 313.107†	3606830.0	51909.87	1.44%	[5.00]	mg/L
Cd 214.440†	184759.4	1180.35	0.64%	[5.00]	mg/L
Co 228.616†	30632.6	123.32	0.40%	[5.00]	mg/L
Mo 202.031†	3269.5	36.81	1.13%	[1.00]	mg/L

Pb 220.353†	7454.5	40.89	0.55%	[5.00] mg/L
Sb 206.836†	3134.3	34.55	1.10%	[5.00] mg/L
Se 196.026†	2588.1	20.88	0.81%	[5.00] mg/L
Sn 189.927†	2238.2	11.39	0.51%	[5.00] mg/L
Ti 334.940†	159246.9	479.79	0.30%	[1.00] mg/L
Tl 190.801†	474.1	2.43	0.51%	[5.00] mg/L
V 292.402†	89297.9	89.08	0.10%	[2.5] mg/L
Li 670.784†	967651.5	2387.51	0.25%	[5] mg/L
Sr 421.552†	6058223.5	113085.32	1.87%	[5] mg/L

Sequence No.: 3
Sample ID: CALB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/10/2012 9:27:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALB

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	612362.4	5453.95	0.89%	98.70	%
Al 308.215†	77006.8	398.95	0.52%	[20.0]	mg/L
As 188.979†	4248.4	27.43	0.65%	[10.0]	mg/L
Ca 317.933†	2014312.7	13741.12	0.68%	[50.0]	mg/L
Cr 205.560†	57983.6	493.38	0.85%	[10.0]	mg/L
Cu 327.393†	327400.1	1097.97	0.34%	[10.0]	mg/L
Fe 238.204†	521065.5	3591.28	0.69%	[20.0]	mg/L
K 766.490†	359759.7	1120.25	0.31%	[50.0]	mg/L
Mg 279.077†	185190.5	1534.80	0.83%	[50.0]	mg/L
Mn 257.610†	1286963.5	7716.93	0.60%	[10.0]	mg/L
Na 589.592†	880603.7	3539.23	0.40%	[50.0]	mg/L
Ni 231.604†	68138.4	576.48	0.85%	[10.0]	mg/L
Zn 206.200†	187380.4	2083.84	1.11%	[20.0]	mg/L

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

Autosampler Location: 1
Date Collected: 2/10/2012 9:29:59 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: IBL

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	606751.3	97.80	%	0.890				0.91%
Ag 328.068†	6.9						13.04	188.73%
Unable to evaluate QC.								
Al 308.215†	7.5	0.0019	mg/L	0.00442	1.931	µg/L	4.4200	228.91%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	0.5	0.0012	mg/L	0.01829	1.176	µg/L	18.2919	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	212.9	0.0172	mg/L	0.00210	17.21	µg/L	2.105	12.23%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	3.5	0.0002	mg/L	0.00023	0.2042	µg/L	0.22585	110.59%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	67.7	0.0001	mg/L	0.00000	0.0941	µg/L	0.00378	4.02%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	261.6	0.0065	mg/L	0.00194	6.494	µg/L	1.9367	29.82%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 214.440†	10.4	0.0003	mg/L	0.00021	0.2846	µg/L	0.20805	73.10%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	9.5	0.0016	mg/L	0.00012	1.551	µg/L	0.1245	8.03%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	5.9	0.0010	mg/L	0.00116	1.010	µg/L	1.1630	115.18%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 327.393†	208.9	0.0064	mg/L	0.00177	6.382	µg/L	1.7725	27.78%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	66.1	0.0025	mg/L	0.00132	2.538	µg/L	1.3187	51.96%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	331.5	0.0461	mg/L	0.00086	46.07	µg/L	0.859	1.87%

QC value within limits for K 766.490 Recovery = Not calculated

Mg 279.077†	-3.4	-0.0009	mg/L	0.00187	-0.9309	µg/L	1.87099 200.99%

QC value within limits for Mg 279.077 Recovery = Not calculated

Mn 257.610†	119.1	0.0009	mg/L	0.00031	0.9257	µg/L	0.31118 33.62%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031†	0.5	0.0001	mg/L	0.00139	0.1449	µg/L	1.39275 961.32%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592†	585.6	0.0333	mg/L	0.00760	33.25	µg/L	7.597 22.85%

QC value within limits for Na 589.592 Recovery = Not calculated

Ni 231.604†	10.2	0.0015	mg/L	0.00163	1.502	µg/L	1.6343 108.80%

QC value within limits for Ni 231.604 Recovery = Not calculated

Pb 220.353†	3.9	0.0026	mg/L	0.00417	2.621	µg/L	4.1732 159.25%

QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.836†	9.1	0.0144	mg/L	0.01226	14.44	µg/L	12.258 84.87%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026†	1.7	0.0033	mg/L	0.00532	3.348	µg/L	5.3188 158.87%

QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.927†	0.7	0.0016	mg/L	0.00297	1.645	µg/L	2.9734 180.81%

QC value within limits for Sn 189.927 Recovery = Not calculated

Ti 334.940†	30.0	0.0002	mg/L	0.00023	0.1882	µg/L	0.22891 121.63%

QC value within limits for Ti 334.940 Recovery = Not calculated

Tl 190.801†	1.9	0.0197	mg/L	0.02735	19.75	µg/L	27.354 138.51%

QC value within limits for Tl 190.801 Recovery = Not calculated

V 292.402†	-2.8	-0.0001	mg/L	0.00032	-0.0784	µg/L	0.32415 413.19%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 206.200†	79.3	0.0085	mg/L	0.00179	8.464	µg/L	1.7869 21.11%

QC value within limits for Zn 206.200 Recovery = Not calculated

Li 670.784†	315.5	0.0016	mg/L	0.00020	1.630	µg/L	0.1998 12.26%

QC value within limits for Li 670.784 Recovery = Not calculated

Sr 421.552†	105.7	0.0001	mg/L	0.00002	0.0872	µg/L	0.02150 24.66%

QC value within limits for Sr 421.552 Recovery = Not calculated

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 5
Sample ID: LCV LI/SR
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/10/2012 9:33:36 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCV LI/SR

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	620049.7	99.94	%	0.741				0.74%
Ag 328.068†	5794.2						77.63	1.34%
Al 308.215†	764.2	0.1983	mg/L	0.00493	198.3	µg/L	4.93	2.49%
As 188.979†	86.1	0.2041	mg/L	0.00352	204.1	µg/L	3.52	1.73%
B 249.677†	2766.4	0.2234	mg/L	0.00394	223.4	µg/L	3.94	1.76%
Ba 233.527†	3562.3	0.2081	mg/L	0.00200	208.1	µg/L	2.00	0.96%
Be 313.107†	147233.9	0.2041	mg/L	0.00042	204.1	µg/L	0.42	0.20%
Ca 317.933†	8597.2	0.2134	mg/L	0.00414	213.4	µg/L	4.14	1.94%
Cd 214.440†	7500.7	0.2031	mg/L	0.00201	203.1	µg/L	2.01	0.99%
Co 228.616†	1270.1	0.2073	mg/L	0.00038	207.3	µg/L	0.38	0.18%
Cr 205.560†	1219.8	0.2103	mg/L	0.00204	210.3	µg/L	2.04	0.97%
Cu 327.393†	7041.9	0.2151	mg/L	0.00158	215.1	µg/L	1.58	0.73%
Fe 238.204†	5493.8	0.2109	mg/L	0.00178	210.9	µg/L	1.78	0.85%
K 766.490†	14750.5	2.050	mg/L	0.0231	2050	µg/L	23.1	1.13%
Mg 279.077†	780.5	0.2107	mg/L	0.00076	210.7	µg/L	0.76	0.36%
Mn 257.610†	27323.5	0.2123	mg/L	0.00198	212.3	µg/L	1.98	0.93%
Mo 202.031†	666.7	0.2039	mg/L	0.00396	203.9	µg/L	3.96	1.94%
Na 589.592†	3865.2	0.2195	mg/L	0.00384	219.5	µg/L	3.84	1.75%
Ni 231.604†	1452.0	0.2131	mg/L	0.00125	213.1	µg/L	1.25	0.59%
Pb 220.353†	306.6	0.2054	mg/L	0.00227	205.4	µg/L	2.27	1.10%
Sb 206.836†	135.8	0.2125	mg/L	0.00797	212.5	µg/L	7.97	3.75%
Se 196.026†	108.6	0.2098	mg/L	0.00321	209.8	µg/L	3.21	1.53%
Sn 189.927†	-2.3	-0.0054	mg/L	0.00292	-5.408	µg/L	2.9239	54.07%
Ti 334.940†	32073.8	0.2014	mg/L	0.00174	201.4	µg/L	1.74	0.86%
Tl 190.801†	22.7	0.2379	mg/L	0.02448	237.9	µg/L	24.48	10.29%
V 292.402†	7164.7	0.2006	mg/L	0.00305	200.6	µg/L	3.05	1.52%
Zn 206.200†	2000.6	0.2134	mg/L	0.00180	213.4	µg/L	1.80	0.84%
Li 670.784†	39677.6	0.2050	mg/L	0.00040	205.0	µg/L	0.40	0.19%

QC value within limits for Li 670.784 Recovery = 102.51%

Sr 421.552†	251858.7	0.2079 mg/L	0.00032	207.9 µg/L	0.32	0.15%

QC value within limits for Sr 421.552 Recovery = 103.93%

All analyte(s) passed QC.

User canceled analysis.

Analysis Begun

Start Time: 2/10/2012 9:37:37 AM **Plasma On Time: 2/10/2012 8:02:25 AM**
Logged In Analyst: Optima **Technique: ICP Continuous**
Spectrometer Model: Optima 3300 DV, S/N 069N9033001Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\BA20301.sif
Batch ID: BB20803
Results Data Set: DV120210
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 12 **Autosampler Location: 39**
Sample ID: LCV Li @ 50 **Date Collected: 2/10/2012 9:37:37 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LCV Li @ 50

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	614670.4	99.07	%	0.305				0.31%
Ag 328.068†	174.6						30.96	17.73%
Al 308.215†	22.0	0.0057	mg/L	0.00795	5.715	µg/L	7.9451	139.02%
As 188.979†	1.1	0.0027	mg/L	0.00380	2.683	µg/L	3.8010	141.67%
B 249.677†	135.2	0.0109	mg/L	0.00026	10.92	µg/L	0.259	2.37%
Ba 233.527†	90.8	0.0053	mg/L	0.00028	5.306	µg/L	0.2836	5.35%
Be 313.107†	3656.4	0.0051	mg/L	0.00003	5.070	µg/L	0.0350	0.69%
Ca 317.933†	314.6	0.0078	mg/L	0.00058	7.810	µg/L	0.5809	7.44%
Cd 214.440†	187.7	0.0051	mg/L	0.00012	5.083	µg/L	0.1224	2.41%
Co 228.616†	29.5	0.0048	mg/L	0.00045	4.813	µg/L	0.4533	9.42%
Cr 205.560†	35.7	0.0062	mg/L	0.00098	6.154	µg/L	0.9819	15.95%
Cu 327.393†	192.8	0.0059	mg/L	0.00127	5.887	µg/L	1.2693	21.56%
Fe 238.204†	149.3	0.0057	mg/L	0.00014	5.732	µg/L	0.1414	2.47%
K 766.490†	450.4	0.0626	mg/L	0.00678	62.59	µg/L	6.780	10.83%
Mg 279.077†	13.7	0.0037	mg/L	0.00147	3.710	µg/L	1.4664	39.53%
Mn 257.610†	677.3	0.0053	mg/L	0.00008	5.263	µg/L	0.0804	1.53%
Mo 202.031†	17.4	0.0053	mg/L	0.00141	5.336	µg/L	1.4124	26.47%
Na 589.592†	164.2	0.0093	mg/L	0.00135	9.326	µg/L	1.3484	14.46%
Ni 231.604†	36.6	0.0054	mg/L	0.00037	5.376	µg/L	0.3666	6.82%
Pb 220.353†	8.5	0.0057	mg/L	0.00445	5.718	µg/L	4.4456	77.75%
Sb 206.836†	5.4	0.0086	mg/L	0.00194	8.567	µg/L	1.9415	22.66%
Se 196.026†	8.1	0.0157	mg/L	0.00955	15.70	µg/L	9.552	60.82%
Sn 189.927†	-2.2	-0.0048	mg/L	0.00695	-4.843	µg/L	6.9485	143.48%
Ti 334.940†	796.6	0.0050	mg/L	0.00012	5.002	µg/L	0.1211	2.42%
Tl 190.801†	1.6	0.0168	mg/L	0.01529	16.80	µg/L	15.285	91.01%
V 292.402†	173.0	0.0048	mg/L	0.00038	4.845	µg/L	0.3835	7.92%
Zn 206.200†	63.3	0.0068	mg/L	0.00060	6.756	µg/L	0.5984	8.86%
Li 670.784†	1075.3	0.0056	mg/L	0.00026	5.556	µg/L	0.2626	4.73%
Sr 421.552†	6265.2	0.0052	mg/L	0.00005	5.171	µg/L	0.0509	0.98%

User canceled analysis.

Analysis Begun

Start Time: 2/10/2012 9:43:05 AM **Plasma On Time: 2/10/2012 8:02:25 AM**
Logged In Analyst: Optima **Technique: ICP Continuous**
Spectrometer Model: Optima 3300 DV, S/N 069N9033001Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\BA20301.sif
Batch ID: BB20803
Results Data Set: DV120210
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 12
Sample ID: LCV Li @ 50
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 2/10/2012 9:43:06 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCV Li @ 50

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	625554.6	100.8	%	0.35				0.35%
Ag 328.068†	1443.3						25.12	1.74%
Al 308.215†	185.9	0.0482	mg/L	0.00748	48.23	µg/L	7.475	15.50%
As 188.979†	19.4	0.0460	mg/L	0.00651	46.00	µg/L	6.511	14.16%
B 249.677†	686.5	0.0554	mg/L	0.00147	55.45	µg/L	1.471	2.65%
Ba 233.527†	870.1	0.0508	mg/L	0.00046	50.83	µg/L	0.464	0.91%
Be 313.107†	36129.6	0.0501	mg/L	0.00034	50.10	µg/L	0.337	0.67%
Ca 317.933†	2292.2	0.0569	mg/L	0.00063	56.90	µg/L	0.629	1.11%
Cd 214.440†	1818.0	0.0492	mg/L	0.00037	49.23	µg/L	0.366	0.74%
Co 228.616†	309.5	0.0505	mg/L	0.00199	50.52	µg/L	1.988	3.94%
Cr 205.560†	301.6	0.0520	mg/L	0.00054	51.99	µg/L	0.543	1.04%
Cu 327.393†	1702.0	0.0520	mg/L	0.00092	51.98	µg/L	0.918	1.77%
Fe 238.204†	1344.1	0.0516	mg/L	0.00064	51.59	µg/L	0.640	1.24%
K 766.490†	3638.7	0.5057	mg/L	0.00647	505.7	µg/L	6.47	1.28%
Mg 279.077†	182.0	0.0491	mg/L	0.00457	49.13	µg/L	4.568	9.30%
Mn 257.610†	6687.8	0.0520	mg/L	0.00019	51.97	µg/L	0.188	0.36%
Mo 202.031†	162.8	0.0498	mg/L	0.00184	49.80	µg/L	1.844	3.70%
Na 589.592†	959.4	0.0545	mg/L	0.00304	54.47	µg/L	3.041	5.58%
Ni 231.604†	348.3	0.0511	mg/L	0.00060	51.12	µg/L	0.596	1.17%
Pb 220.353†	78.0	0.0522	mg/L	0.00209	52.22	µg/L	2.093	4.01%
Sb 206.836†	32.3	0.0505	mg/L	0.00309	50.53	µg/L	3.090	6.12%
Se 196.026†	29.8	0.0575	mg/L	0.00388	57.49	µg/L	3.882	6.75%
Sn 189.927†	-2.0	-0.0045	mg/L	0.00399	-4.458	µg/L	3.9927	89.57%
Ti 334.940†	7892.9	0.0496	mg/L	0.00049	49.56	µg/L	0.491	0.99%
Tl 190.801†	8.6	0.0901	mg/L	0.01637	90.11	µg/L	16.372	18.17%
V 292.402†	1748.4	0.0489	mg/L	0.00111	48.95	µg/L	1.112	2.27%
Zn 206.200†	492.5	0.0525	mg/L	0.00072	52.53	µg/L	0.721	1.37%
Li 670.784†	9719.9	0.0502	mg/L	0.00042	50.22	µg/L	0.419	0.83%
Sr 421.552†	62188.0	0.0513	mg/L	0.00037	51.33	µg/L	0.370	0.72%

User canceled analysis.

Analysis Begun

Start Time: 2/10/2012 9:46:42 AM
Logged In Analyst: Optima
Spectrometer Model: Optima 3300 DV, S/N 069N9033001

Plasma On Time: 2/10/2012 8:02:25 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\BA20301.sif
Batch ID: BB20803
Results Data Set: DV120210
Results Library: C:\pe\Administrator\Results\Results.mdb

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

Autosampler Location: 6
Date Collected: 2/10/2012 9:46:42 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	614914.8	99.11	%	0.467				0.47%
Ag 328.068†	556.2						59.43	10.68%
Unable to evaluate QC.								
Al 308.215†	825.4	0.2138	mg/L	0.01079	213.8	µg/L	10.79	5.05%
QC value within limits for Al 308.215 Recovery = 106.92%								
As 188.979†	91.2	0.2169	mg/L	0.00765	216.9	µg/L	7.65	3.53%
QC value within limits for As 188.979 Recovery = 108.45%								

B 249.677†	2602.2	0.2103 mg/L	0.00350	210.3 µg/L	3.50	1.67%
QC value within limits for B 249.677 Recovery = 105.17%						
Ba 233.527†	3657.6	0.2137 mg/L	0.00204	213.7 µg/L	2.04	0.96%
QC value within limits for Ba 233.527 Recovery = 106.83%						
Be 313.107†	4046.3	0.0056 mg/L	0.00010	5.612 µg/L	0.1037	1.85%
QC value within limits for Be 313.107 Recovery = 112.23%						
Ca 317.933†	22243.1	0.5521 mg/L	0.00511	552.1 µg/L	5.11	0.93%
QC value within limits for Ca 317.933 Recovery = 110.43%						
Cd 214.440†	186.8	0.0050 mg/L	0.00008	5.030 µg/L	0.0814	1.62%
QC value within limits for Cd 214.440 Recovery = 100.61%						
Co 228.616†	332.3	0.0542 mg/L	0.00104	54.24 µg/L	1.039	1.92%
QC value within limits for Co 228.616 Recovery = 108.49%						
Cr 205.560†	67.6	0.0117 mg/L	0.00090	11.65 µg/L	0.896	7.69%
QC value within limits for Cr 205.560 Recovery = 116.51%						
Cu 327.393†	926.1	0.0282 mg/L	0.00133	28.24 µg/L	1.332	4.71%
QC value within limits for Cu 327.393 Recovery = 112.98%						
Fe 238.204†	2913.3	0.1118 mg/L	0.00034	111.8 µg/L	0.34	0.31%
QC value within limits for Fe 238.204 Recovery = 111.82%						
K 766.490†	15232.2	2.117 mg/L	0.0311	2117 µg/L	31.1	1.47%
QC value within limits for K 766.490 Recovery = 105.85%						
Mg 279.077†	2023.6	0.5464 mg/L	0.01546	546.4 µg/L	15.46	2.83%
QC value within limits for Mg 279.077 Recovery = 109.27%						
Mn 257.610†	2117.1	0.0165 mg/L	0.00006	16.45 µg/L	0.060	0.36%
QC value within limits for Mn 257.610 Recovery = 109.67%						
Mo 202.031†	694.1	0.2123 mg/L	0.00318	212.3 µg/L	3.18	1.50%
QC value within limits for Mo 202.031 Recovery = 106.14%						
Na 589.592†	18767.6	1.066 mg/L	0.0137	1066 µg/L	13.7	1.29%
QC value within limits for Na 589.592 Recovery = 106.56%						
Ni 231.604†	305.8	0.0449 mg/L	0.00112	44.88 µg/L	1.122	2.50%
QC value within limits for Ni 231.604 Recovery = 112.21%						
Pb 220.353†	77.0	0.0516 mg/L	0.00210	51.60 µg/L	2.096	4.06%
QC value within limits for Pb 220.353 Recovery = 103.21%						
Sb 206.836†	43.4	0.0687 mg/L	0.00597	68.65 µg/L	5.969	8.70%
QC value within limits for Sb 206.836 Recovery = 114.42%						
Se 196.026†	114.9	0.2219 mg/L	0.00607	221.9 µg/L	6.07	2.73%
QC value within limits for Se 196.026 Recovery = 110.96%						
Sn 189.927†	97.4	0.2169 mg/L	0.00956	216.9 µg/L	9.56	4.41%
QC value within limits for Sn 189.927 Recovery = 108.44%						
Ti 334.940†	33238.5	0.2087 mg/L	0.00282	208.7 µg/L	2.82	1.35%
QC value within limits for Ti 334.940 Recovery = 104.36%						
Tl 190.801†	21.3	0.2226 mg/L	0.03678	222.6 µg/L	36.78	16.52%
QC value within limits for Tl 190.801 Recovery = 111.29%						
V 292.402†	1767.1	0.0495 mg/L	0.00029	49.47 µg/L	0.290	0.59%
QC value within limits for V 292.402 Recovery = 98.94%						
Zn 206.200†	220.0	0.0235 mg/L	0.00025	23.45 µg/L	0.246	1.05%
QC value within limits for Zn 206.200 Recovery = 117.26%						
Li 670.784†	86.3	0.0004 mg/L	0.00037	0.4459 µg/L	0.37481	84.06%
QC value within limits for Li 670.784 Recovery = Not calculated						
Sr 421.552†	90.6	0.0001 mg/L	0.00003	0.0747 µg/L	0.02661	35.61%
QC value within limits for Sr 421.552 Recovery = Not calculated						

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 7
Sample ID: CCV@A/B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/10/2012 9:50:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV@A/B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	609192.3	98.19	%	1.259				1.28%
Ag 328.068†	-338.9						24.90	7.35%
Al 308.215†	38433.3	9.957	mg/L	0.2206	9957	µg/L	220.6	2.22%
QC value within limits for Al 308.215 Recovery = 99.57%								
As 188.979†	2131.7	5.018	mg/L	0.0702	5018	µg/L	70.2	1.40%
QC value within limits for As 188.979 Recovery = 100.36%								
B 249.677†	30940.5	2.496	mg/L	0.0598	2496	µg/L	59.8	2.40%
QC value within limits for B 249.677 Recovery = 99.85%								
Ba 233.527†	42411.7	2.478	mg/L	0.0449	2478	µg/L	44.9	1.81%

QC value within limits for Ba 233.527 Recovery = 99.10%						
Be 313.107†	1815741.8	2.518 mg/L	0.0219	2518 µg/L	21.9	0.87%
QC value within limits for Be 313.107 Recovery = 100.72%						
Ca 317.933†	1026595.8	25.48 mg/L	0.254	25480 µg/L	253.7	1.00%
QC value within limits for Ca 317.933 Recovery = 101.93%						
Cd 214.440†	91007.8	2.465 mg/L	0.0424	2465 µg/L	42.4	1.72%
QC value within limits for Cd 214.440 Recovery = 98.61%						
Co 228.616†	15159.7	2.474 mg/L	0.0479	2474 µg/L	47.9	1.93%
QC value within limits for Co 228.616 Recovery = 98.98%						
Cr 205.560†	29566.2	5.098 mg/L	0.1022	5098 µg/L	102.2	2.00%
QC value within limits for Cr 205.560 Recovery = 101.96%						
Cu 327.393†	165500.2	5.053 mg/L	0.1093	5053 µg/L	109.3	2.16%
QC value within limits for Cu 327.393 Recovery = 101.06%						
Fe 238.204†	264245.3	10.14 mg/L	0.196	10140 µg/L	195.8	1.93%
QC value within limits for Fe 238.204 Recovery = 101.42%						
K 766.490†	179368.8	24.93 mg/L	0.546	24930 µg/L	546.0	2.19%
QC value within limits for K 766.490 Recovery = 99.72%						
Mg 279.077†	93983.5	25.37 mg/L	0.475	25370 µg/L	475.0	1.87%
QC value within limits for Mg 279.077 Recovery = 101.50%						
Mn 257.610†	652619.1	5.071 mg/L	0.0513	5071 µg/L	51.3	1.01%
QC value within limits for Mn 257.610 Recovery = 101.42%						
Mo 202.031†	1654.9	0.5062 mg/L	0.00531	506.2 µg/L	5.31	1.05%
QC value within limits for Mo 202.031 Recovery = 101.23%						
Na 589.592†	443385.2	25.18 mg/L	0.252	25180 µg/L	252.3	1.00%
QC value within limits for Na 589.592 Recovery = 100.70%						
Ni 231.604†	34948.6	5.129 mg/L	0.0932	5129 µg/L	93.2	1.82%
QC value within limits for Ni 231.604 Recovery = 102.58%						
Pb 220.353†	3667.3	2.453 mg/L	0.0314	2453 µg/L	31.4	1.28%
QC value within limits for Pb 220.353 Recovery = 98.13%						
Sb 206.836†	1657.0	2.525 mg/L	0.0571	2525 µg/L	57.1	2.26%
QC value within limits for Sb 206.836 Recovery = 100.98%						
Se 196.026†	1316.9	2.544 mg/L	0.0268	2544 µg/L	26.8	1.05%
QC value within limits for Se 196.026 Recovery = 101.76%						
Sn 189.927†	1148.1	2.529 mg/L	0.0420	2529 µg/L	42.0	1.66%
QC value within limits for Sn 189.927 Recovery = 101.17%						
Ti 334.940†	80407.8	0.5049 mg/L	0.01089	504.9 µg/L	10.89	2.16%
QC value within limits for Ti 334.940 Recovery = 100.99%						
Tl 190.801†	247.4	2.516 mg/L	0.0412	2516 µg/L	41.2	1.64%
QC value within limits for Tl 190.801 Recovery = 100.64%						
V 292.402†	44960.5	1.259 mg/L	0.0266	1259 µg/L	26.6	2.11%
QC value within limits for V 292.402 Recovery = 100.70%						
Zn 206.200†	96186.2	10.26 mg/L	0.174	10260 µg/L	173.7	1.69%
QC value within limits for Zn 206.200 Recovery = 102.62%						
Li 670.784†	473147.9	2.445 mg/L	0.0116	2445 µg/L	11.6	0.48%
QC value within limits for Li 670.784 Recovery = 97.79%						
Sr 421.552†	3021719.9	2.494 mg/L	0.0242	2494 µg/L	24.2	0.97%
QC value within limits for Sr 421.552 Recovery = 99.76%						

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: SCV@LVM
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 2/10/2012 9:54:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SCV@LVM

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	607037.5	97.84	%	0.483				0.49%
Ag 328.068†	107549.5						2063.02	1.92%
Al 308.215†	15732.6	4.082	mg/L	0.0122	4082	µg/L	12.2	0.30%
QC value within limits for Al 308.215 Recovery = 102.05%								
As 188.979†	1754.3	4.158	mg/L	0.0221	4158	µg/L	22.1	0.53%
QC value within limits for As 188.979 Recovery = 103.96%								
B 249.677†	54513.8	4.403	mg/L	0.0124	4403	µg/L	12.4	0.28%
QC value greater than the upper limit for B 249.677 Recovery = 110.07%								
Ba 233.527†	72173.5	4.216	mg/L	0.0146	4216	µg/L	14.6	0.35%
QC value greater than the upper limit for Ba 233.527 Recovery = 105.40%								
Be 313.107†	2993625.3	4.151	mg/L	0.0143	4151	µg/L	14.3	0.34%
QC value within limits for Be 313.107 Recovery = 103.77%								

Ca 317.933†	172165.9	4.274 mg/L	0.0152	4274 µg/L	15.2	0.35%
QC value greater than the upper limit for Ca 317.933 Recovery = 106.84%						
Cd 214.440†	152363.8	4.126 mg/L	0.0186	4126 µg/L	18.6	0.45%
QC value within limits for Cd 214.440 Recovery = 103.16%						
Co 228.616†	25910.7	4.229 mg/L	0.0077	4229 µg/L	7.7	0.18%
QC value greater than the upper limit for Co 228.616 Recovery = 105.73%						
Cr 205.560†	24749.2	4.267 mg/L	0.0031	4267 µg/L	3.1	0.07%
QC value greater than the upper limit for Cr 205.560 Recovery = 106.67%						
Cu 327.393†	140718.2	4.298 mg/L	0.0094	4298 µg/L	9.4	0.22%
QC value greater than the upper limit for Cu 327.393 Recovery = 107.44%						
Fe 238.204†	111222.6	4.269 mg/L	0.0144	4269 µg/L	14.4	0.34%
QC value greater than the upper limit for Fe 238.204 Recovery = 106.73%						
K 766.490†	296677.3	41.23 mg/L	0.104	41230 µg/L	104.3	0.25%
QC value within limits for K 766.490 Recovery = 103.08%						
Mg 279.077†	15682.8	4.234 mg/L	0.0165	4234 µg/L	16.5	0.39%
QC value greater than the upper limit for Mg 279.077 Recovery = 105.86%						
Mn 257.610†	549875.7	4.273 mg/L	0.0116	4273 µg/L	11.6	0.27%
QC value greater than the upper limit for Mn 257.610 Recovery = 106.82%						
Mo 202.031†	13648.9	4.175 mg/L	0.0156	4175 µg/L	15.6	0.37%
QC value within limits for Mo 202.031 Recovery = 104.36%						
Na 589.592†	76508.5	4.344 mg/L	0.0022	4344 µg/L	2.2	0.05%
QC value greater than the upper limit for Na 589.592 Recovery = 108.60%						
Ni 231.604†	29364.6	4.310 mg/L	0.0078	4310 µg/L	7.8	0.18%
QC value greater than the upper limit for Ni 231.604 Recovery = 107.74%						
Pb 220.353†	6153.2	4.122 mg/L	0.0216	4122 µg/L	21.6	0.52%
QC value within limits for Pb 220.353 Recovery = 103.05%						
Sb 206.836†	2774.1	4.342 mg/L	0.0277	4342 µg/L	27.7	0.64%
QC value greater than the upper limit for Sb 206.836 Recovery = 108.55%						
Se 196.026†	2149.1	4.152 mg/L	0.0167	4152 µg/L	16.7	0.40%
QC value within limits for Se 196.026 Recovery = 103.79%						
Sn 189.927†	-10.6	-0.0296 mg/L	0.00457	-29.56 µg/L	4.574	15.47%
Ti 334.940†	653578.1	4.104 mg/L	0.0061	4104 µg/L	6.1	0.15%
QC value within limits for Ti 334.940 Recovery = 102.60%						
Tl 190.801†	404.6	4.238 mg/L	0.0323	4238 µg/L	32.3	0.76%
QC value greater than the upper limit for Tl 190.801 Recovery = 105.95%						
V 292.402†	145826.6	4.083 mg/L	0.0113	4083 µg/L	11.3	0.28%
QC value within limits for V 292.402 Recovery = 102.06%						
Zn 206.200†	40520.0	4.321 mg/L	0.0164	4321 µg/L	16.4	0.38%
QC value greater than the upper limit for Zn 206.200 Recovery = 108.04%						
Li 670.784†	785453.4	4.059 mg/L	0.0047	4059 µg/L	4.7	0.12%
QC value within limits for Li 670.784 Recovery = 101.46%						
Sr 421.552†	5090953.9	4.202 mg/L	0.0237	4202 µg/L	23.7	0.56%
QC value greater than the upper limit for Sr 421.552 Recovery = 105.04%						

QC Failed. Continue with analysis.
User canceled analysis.

Analysis Begun

Start Time: 2/10/2012 10:03:12 AM **Plasma On Time: 2/10/2012 8:02:25 AM**
Logged In Analyst: Optima **Technique: ICP Continuous**
Spectrometer Model: Optima 3300 DV, S/N 069N9033001Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\BA20301.sif
Batch ID: BB20803
Results Data Set: DV120210
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 8 **Autosampler Location: 10**
Sample ID: SCV@LVM **Date Collected: 2/10/2012 10:03:12 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: SCV@LVM

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	604178.2	97.38	%	0.526				0.54%
Ag 328.068†	103185.7						858.18	0.83%
Al 308.215†	15123.0	3.924	mg/L	0.0066	3924	µg/L	6.6	0.17%

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   QC value within limits for Al 308.215  Recovery = 98.09%
As 188.979†          1704.0       4.039 mg/L        0.0392        4039 µg/L          39.2   0.97%
   QC value within limits for As 188.979  Recovery = 100.97%
B 249.677†          52125.7       4.210 mg/L        0.0375        4210 µg/L          37.5   0.89%
   QC value greater than the upper limit for B 249.677  Recovery = 105.24%
Ba 233.527†         70416.1       4.114 mg/L        0.0292        4114 µg/L          29.2   0.71%
   QC value within limits for Ba 233.527  Recovery = 102.84%
Be 313.107†       2893972.7       4.013 mg/L        0.0258        4013 µg/L          25.8   0.64%
   QC value within limits for Be 313.107  Recovery = 100.32%
Ca 317.933†        168138.7       4.174 mg/L        0.0427        4174 µg/L          42.7   1.02%
   QC value within limits for Ca 317.933  Recovery = 104.34%
Cd 214.440†        148981.7       4.035 mg/L        0.0316        4035 µg/L          31.6   0.78%
   QC value within limits for Cd 214.440  Recovery = 100.87%
Co 228.616†         25268.9       4.125 mg/L        0.0284        4125 µg/L          28.4   0.69%
   QC value within limits for Co 228.616  Recovery = 103.11%
Cr 205.560†         24038.1       4.144 mg/L        0.0233        4144 µg/L          23.3   0.56%
   QC value within limits for Cr 205.560  Recovery = 103.60%
Cu 327.393†        136810.6       4.178 mg/L        0.0407        4178 µg/L          40.7   0.98%
   QC value within limits for Cu 327.393  Recovery = 104.46%
Fe 238.204†        108309.0       4.157 mg/L        0.0313        4157 µg/L          31.3   0.75%
   QC value within limits for Fe 238.204  Recovery = 103.93%
K 766.490†         288770.6       40.13 mg/L         0.450       40130 µg/L         450.0   1.12%
   QC value within limits for K 766.490  Recovery = 100.33%
Mg 279.077†         15281.7       4.126 mg/L        0.0362        4126 µg/L          36.2   0.88%
   QC value within limits for Mg 279.077  Recovery = 103.15%
Mn 257.610†        534974.5       4.157 mg/L        0.0314        4157 µg/L          31.4   0.76%
   QC value within limits for Mn 257.610  Recovery = 103.92%
Mo 202.031†         13256.3       4.054 mg/L        0.0263        4054 µg/L          26.3   0.65%
   QC value within limits for Mo 202.031  Recovery = 101.36%
Na 589.592†         72949.4       4.142 mg/L        0.0295        4142 µg/L          29.5   0.71%
   QC value within limits for Na 589.592  Recovery = 103.55%
Ni 231.604†         28585.8       4.195 mg/L        0.0188        4195 µg/L          18.8   0.45%
   QC value within limits for Ni 231.604  Recovery = 104.88%
Pb 220.353†          5969.5       3.999 mg/L        0.0511        3999 µg/L          51.1   1.28%
   QC value within limits for Pb 220.353  Recovery = 99.97%
Sb 206.836†          2692.0       4.214 mg/L        0.0497        4214 µg/L          49.7   1.18%
   QC value greater than the upper limit for Sb 206.836  Recovery = 105.34%
Se 196.026†          2088.7       4.035 mg/L        0.0387        4035 µg/L          38.7   0.96%
   QC value within limits for Se 196.026  Recovery = 100.88%
Sn 189.927†           -10.9     -0.0301 mg/L       0.00512       -30.13 µg/L         5.123  17.00%
Ti 334.940†        635662.0       3.992 mg/L        0.0265        3992 µg/L          26.5   0.67%
   QC value within limits for Ti 334.940  Recovery = 99.79%
Tl 190.801†           393.3       4.121 mg/L        0.0189        4121 µg/L          18.9   0.46%
   QC value within limits for Tl 190.801  Recovery = 103.02%
V 292.402†         141688.1       3.967 mg/L        0.0379        3967 µg/L          37.9   0.96%
   QC value within limits for V 292.402  Recovery = 99.17%
Zn 206.200†         39601.5       4.224 mg/L        0.0373        4224 µg/L          37.3   0.88%
   QC value greater than the upper limit for Zn 206.200  Recovery = 105.59%
Li 670.784†        760327.2       3.929 mg/L        0.0411        3929 µg/L          41.1   1.05%
   QC value within limits for Li 670.784  Recovery = 98.22%
Sr 421.552†       4898693.8       4.043 mg/L        0.0190        4043 µg/L          19.0   0.47%
   QC value within limits for Sr 421.552  Recovery = 101.08%
QC Failed.  Continue with analysis.
User canceled analysis.

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

Start Time: 2/10/2012 10:07:41 AM                Plasma On Time: 2/10/2012 8:02:25 AM
Logged In Analyst: Optima                        Technique: ICP Continuous
Spectrometer Model: Optima 3300 DV, S/N 069N9033001Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\BA20301.sif
Batch ID: BB20803
Results Data Set: DV120210
Results Library: C:\pe\Administrator\Results\Results.mdb

================================================================================
Sequence No.: 9                                  Autosampler Location: 13
Sample ID: IFA@1                                 Date Collected: 2/10/2012 10:07:41 AM
Analyst:                                         Data Type: Original
Initial Sample Wt:                               Initial Sample Vol:
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Dilution: Sample Prep Vol:

Mean Data: IFA@1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	592632.2	95.52	%	0.241				0.25%
Ag 328.068†	718.7						270.76	37.68%
Unable to evaluate QC.								
Al 308.215†	979252.9	254.1	mg/L	1.52	254100	µg/L	1518.7	0.60%
QC value within limits for Al 308.215 Recovery = 101.63%								
As 188.979†	26.6	0.0881	mg/L	0.01252	88.12	µg/L	12.515	14.20%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	303.6	0.0245	mg/L	0.00384	24.54	µg/L	3.840	15.65%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	64.0	0.0037	mg/L	0.00053	3.740	µg/L	0.5333	14.26%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	99.7	0.0001	mg/L	0.00020	0.1415	µg/L	0.20146	142.42%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	10477888.9	260.1	mg/L	1.32	260100	µg/L	1318.4	0.51%
QC value within limits for Ca 317.933 Recovery = 104.03%								
Cd 214.440†	1417.7	-0.0025	mg/L	0.00028	-2.456	µg/L	0.2801	11.41%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	230.6	0.0376	mg/L	0.00020	37.64	µg/L	0.203	0.54%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	92.5	-0.0088	mg/L	0.00043	-8.803	µg/L	0.4309	4.89%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 327.393†	-41.7	-0.0210	mg/L	0.00142	-21.03	µg/L	1.423	6.77%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	136.8	0.0053	mg/L	0.00060	5.250	µg/L	0.5984	11.40%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	580.8	0.0807	mg/L	0.00160	80.72	µg/L	1.601	1.98%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	-31.5	-0.0085	mg/L	0.00365	-8.506	µg/L	3.6516	42.93%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	401.1	0.0031	mg/L	0.00011	3.116	µg/L	0.1110	3.56%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-0.0	0.0000	mg/L	0.00186	-0.0115	µg/L	1.85995	>999.9%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	338.0	0.0192	mg/L	0.00063	19.19	µg/L	0.626	3.26%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	337332.3	49.51	mg/L	0.218	49510	µg/L	218.2	0.44%
QC value within limits for Ni 231.604 Recovery = 99.01%								
Pb 220.353†	96.4	-0.0004	mg/L	0.00563	-0.3896	µg/L	5.63416	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	216.0	-0.0034	mg/L	0.00375	-3.408	µg/L	3.7530	110.11%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	77.8	0.1504	mg/L	0.01006	150.4	µg/L	10.06	6.69%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	139.8	-0.0519	mg/L	0.01526	-51.87	µg/L	15.262	29.42%
Ti 334.940†	202.2	0.0013	mg/L	0.00020	1.270	µg/L	0.2031	15.99%
Tl 190.801†	88.9	0.1242	mg/L	0.03079	124.2	µg/L	30.79	24.80%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	98.0	0.0027	mg/L	0.00028	2.743	µg/L	0.2800	10.21%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	242.3	0.0004	mg/L	0.00055	0.4206	µg/L	0.54895	130.53%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Li 670.784†	725.0	0.0037	mg/L	0.00049	3.746	µg/L	0.4852	12.95%
QC value within limits for Li 670.784 Recovery = Not calculated								
Sr 421.552†	2242.2	0.0019	mg/L	0.00018	1.851	µg/L	0.1770	9.57%
QC value within limits for Sr 421.552 Recovery = Not calculated								

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 10 Autosampler Location: 14
Sample ID: IFA@2 Date Collected: 2/10/2012 10:13:13 AM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: IFA@2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	573800.6	92.48	%	0.930				1.01%
Ag 328.068†	-7040.9						123.92	1.76%
Unable to evaluate QC.								
Al 308.215†	35.7	0.0093	mg/L	0.01038	9.256	µg/L	10.3771	112.11%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	0.2	0.0860	mg/L	0.01527	85.98	µg/L	15.274	17.77%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-1601.9	-0.1295	mg/L	0.00073	-129.5	µg/L	0.73	0.57%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	1795.7	0.1049	mg/L	0.00044	104.9	µg/L	0.44	0.42%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	96.7	0.0001	mg/L	0.00005	0.1276	µg/L	0.05213	40.84%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	567.7	0.0141	mg/L	0.00468	14.09	µg/L	4.677	33.19%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 214.440†	297.9	-0.0019	mg/L	0.00014	-1.855	µg/L	0.1386	7.47%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	259.0	0.0423	mg/L	0.00173	42.28	µg/L	1.730	4.09%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	-185.7	0.0051	mg/L	0.00080	5.102	µg/L	0.8040	15.76%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 327.393†	100.9	0.0031	mg/L	0.00077	3.081	µg/L	0.7700	24.99%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	6448535.1	247.5	mg/L	3.77	247500	µg/L	3765.9	1.52%
QC value within limits for Fe 238.204 Recovery = 99.01%								
K 766.490†	1650.2	0.2293	mg/L	0.02231	229.3	µg/L	22.31	9.73%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	1001630.1	270.4	mg/L	2.56	270400	µg/L	2559.7	0.95%
QC value within limits for Mg 279.077 Recovery = 108.17%								
Mn 257.610†	1570.3	0.0122	mg/L	0.00018	12.20	µg/L	0.178	1.46%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	22.4	0.0069	mg/L	0.00145	6.861	µg/L	1.4545	21.20%
Na 589.592†	4626533.8	262.7	mg/L	4.63	262700	µg/L	4633.8	1.76%
QC value within limits for Na 589.592 Recovery = 105.08%								
Ni 231.604†	21.5	0.0031	mg/L	0.00089	3.149	µg/L	0.8879	28.20%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	27.2	0.0306	mg/L	0.00129	30.63	µg/L	1.294	4.22%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	151.7	-0.0142	mg/L	0.00463	-14.21	µg/L	4.630	32.57%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	71.3	0.1378	mg/L	0.00504	137.8	µg/L	5.04	3.66%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	30.1	0.0671	mg/L	0.00778	67.12	µg/L	7.780	11.59%
Ti 334.940†	970.9	0.0061	mg/L	0.00003	6.097	µg/L	0.0335	0.55%
Tl 190.801†	93.5	0.0583	mg/L	0.02621	58.27	µg/L	26.208	44.98%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	1140.5	0.0319	mg/L	0.00049	31.93	µg/L	0.491	1.54%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	64.3	0.0069	mg/L	0.00019	6.888	µg/L	0.1931	2.80%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Li 670.784†	1356.8	0.0070	mg/L	0.00058	7.011	µg/L	0.5788	8.26%
QC value within limits for Li 670.784 Recovery = Not calculated								
Sr 421.552†	500.3	0.0004	mg/L	0.00001	0.4129	µg/L	0.01301	3.15%
QC value within limits for Sr 421.552 Recovery = Not calculated								

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 11
Sample ID: IFA@3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 2/10/2012 10:18:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: IFA@3

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	607920.4	97.98	%	0.685				0.70%
Ag 328.068†	922.0						52.59	5.70%
Unable to evaluate QC.								

Al 308.215†	259.3	0.0673 mg/L	0.00725	67.33 µg/L	7.247	10.76%
QC value within limits for Al 308.215 Recovery = Not calculated						
As 188.979†	-6.4	-0.3235 mg/L	0.00823	-323.5 µg/L	8.23	2.55%
QC value less than the lower limit for As 188.979 Recovery = Not calculated						
B 249.677†	326.4	-0.0254 mg/L	0.00107	-25.40 µg/L	1.069	4.21%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	20.1	0.0012 mg/L	0.00004	1.175 µg/L	0.0436	3.71%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-4071.0	-0.0003 mg/L	0.00012	-0.3239 µg/L	0.11665	36.01%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	935.0	0.0232 mg/L	0.00493	23.21 µg/L	4.933	21.26%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 214.440†	-1487.3	-0.0123 mg/L	0.00055	-12.29 µg/L	0.548	4.46%
QC value less than the lower limit for Cd 214.440 Recovery = Not calculated						
Co 228.616†	46.3	0.0076 mg/L	0.00137	7.558 µg/L	1.3734	18.17%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 205.560†	154222.0	26.60 mg/L	0.273	26600 µg/L	273.0	1.03%
QC value less than the lower limit for Cr 205.560 Recovery = 53.20%						
Cu 327.393†	1601695.8	48.92 mg/L	0.127	48920 µg/L	127.5	0.26%
QC value greater than the upper limit for Cu 327.393 Recovery = 244.61%						
Fe 238.204†	262.8	0.0101 mg/L	0.00314	10.09 µg/L	3.137	31.10%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	483.7	0.0672 mg/L	0.00894	67.22 µg/L	8.939	13.30%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 279.077†	-1353.0	-0.3653 mg/L	0.00791	-365.3 µg/L	7.91	2.17%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	6665409.8	51.79 mg/L	0.082	51790 µg/L	82.2	0.16%
QC value within limits for Mn 257.610 Recovery = 103.58%						
Mo 202.031†	10.2	0.0031 mg/L	0.00115	3.116 µg/L	1.1505	36.92%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	1757.7	0.0998 mg/L	0.01576	99.80 µg/L	15.757	15.79%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	43.1	0.0063 mg/L	0.00034	6.333 µg/L	0.3435	5.42%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	126.1	0.0739 mg/L	0.00710	73.93 µg/L	7.098	9.60%
QC value greater than the upper limit for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	296.8	0.0227 mg/L	0.00621	22.72 µg/L	6.215	27.35%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	31.1	0.0600 mg/L	0.00423	60.01 µg/L	4.234	7.05%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	4.3	0.0097 mg/L	0.00488	9.666 µg/L	4.8769	50.45%
Ti 334.940†	1833.5	0.0115 mg/L	0.00014	11.51 µg/L	0.136	1.18%
Tl 190.801†	15.4	0.1631 mg/L	0.01041	163.1 µg/L	10.41	6.38%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	283.2	0.0079 mg/L	0.00081	7.928 µg/L	0.8134	10.26%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	295.3	0.0129 mg/L	0.00187	12.90 µg/L	1.867	14.47%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Li 670.784†	357.6	0.0018 mg/L	0.00025	1.848 µg/L	0.2478	13.41%
QC value within limits for Li 670.784 Recovery = Not calculated						
Sr 421.552†	-74.2	-0.0001 mg/L	0.00003	-0.0612 µg/L	0.02844	46.47%
QC value within limits for Sr 421.552 Recovery = Not calculated						

QC Failed. Continue with analysis.

Sequence No.: 12
Sample ID: LCV Li @ 50
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 2/10/2012 10:24:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCV Li @ 50

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	607623.1	97.94	%	0.874				0.89%
Ag 328.068†	1635.9						44.64	2.73%
Al 308.215†	211.0	0.0547	mg/L	0.00361	54.74	µg/L	3.609	6.59%
As 188.979†	17.6	0.0416	mg/L	0.01303	41.64	µg/L	13.028	31.29%
B 249.677†	654.8	0.0529	mg/L	0.01350	52.88	µg/L	13.505	25.54%
Ba 233.527†	779.9	0.0456	mg/L	0.01154	45.56	µg/L	11.539	25.33%
Be 313.107†	36900.9	0.0512	mg/L	0.00045	51.16	µg/L	0.449	0.88%

Ca 317.933†	2464.6	0.0612 mg/L	0.00136	61.18 µg/L	1.362	2.23%
Cd 214.440†	1660.6	0.0450 mg/L	0.01037	44.98 µg/L	10.368	23.05%
Co 228.616†	287.8	0.0470 mg/L	0.00895	46.98 µg/L	8.951	19.05%
Cr 205.560†	278.2	0.0480 mg/L	0.01210	47.97 µg/L	12.101	25.23%
Cu 327.393†	2181.2	0.0666 mg/L	0.00138	66.62 µg/L	1.385	2.08%
Fe 238.204†	1267.3	0.0486 mg/L	0.01105	48.64 µg/L	11.047	22.71%
K 766.490†	3928.7	0.5460 mg/L	0.01687	546.0 µg/L	16.87	3.09%
Mg 279.077†	159.3	0.0430 mg/L	0.01908	43.00 µg/L	19.081	44.37%
Mn 257.610†	7145.7	0.0555 mg/L	0.00033	55.52 µg/L	0.327	0.59%
Mo 202.031†	147.7	0.0452 mg/L	0.00973	45.17 µg/L	9.733	21.55%
Na 589.592†	1365.3	0.0775 mg/L	0.00298	77.52 µg/L	2.982	3.85%
Ni 231.604†	320.0	0.0470 mg/L	0.01118	46.96 µg/L	11.180	23.81%
Pb 220.353†	73.1	0.0490 mg/L	0.00823	48.97 µg/L	8.230	16.80%
Sb 206.836†	41.3	0.0649 mg/L	0.01578	64.90 µg/L	15.784	24.32%
Se 196.026†	30.6	0.0591 mg/L	0.01134	59.14 µg/L	11.336	19.17%
Sn 189.927†	0.8	0.0016 mg/L	0.00749	1.633 µg/L	7.4862	458.50%
Ti 334.940†	8129.3	0.0510 mg/L	0.00029	51.05 µg/L	0.292	0.57%
Tl 190.801†	8.7	0.0911 mg/L	0.03250	91.10 µg/L	32.498	35.67%
V 292.402†	1820.1	0.0510 mg/L	0.00105	50.95 µg/L	1.049	2.06%
Zn 206.200†	446.8	0.0477 mg/L	0.00979	47.65 µg/L	9.785	20.54%
Li 670.784†	9842.6	0.0509 mg/L	0.00044	50.86 µg/L	0.439	0.86%
Sr 421.552†	63560.5	0.0525 mg/L	0.00007	52.46 µg/L	0.067	0.13%

Sequence No.: 13
Sample ID: BB20803-BLK2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 2/10/2012 10:27:49 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20803-BLK2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	606559.6	97.76	%	0.561				0.57%
Ag 328.068†	88.7						11.81	13.32%
Al 308.215†	7.5	0.0019	mg/L	0.00742	1.932	µg/L	7.4233	384.28%
As 188.979†	1.0	0.0024	mg/L	0.00464	2.388	µg/L	4.6351	194.12%
B 249.677†	66.8	0.0054	mg/L	0.00040	5.403	µg/L	0.4034	7.47%
Ba 233.527†	-3.4	-0.0002	mg/L	0.00018	-0.1987	µg/L	0.17548	88.31%
Be 313.107†	73.3	0.0001	mg/L	0.00007	0.1015	µg/L	0.06625	65.28%
Ca 317.933†	234.2	0.0058	mg/L	0.00383	5.813	µg/L	3.8300	65.89%
Cd 214.440†	1.7	0.0000	mg/L	0.00011	0.0471	µg/L	0.10841	230.27%
Co 228.616†	0.6	0.0001	mg/L	0.00086	0.1029	µg/L	0.86492	840.64%
Cr 205.560†	-4.7	-0.0008	mg/L	0.00063	-0.8110	µg/L	0.62995	77.68%
Cu 327.393†	167.3	0.0051	mg/L	0.00065	5.109	µg/L	0.6529	12.78%
Fe 238.204†	37.3	0.0014	mg/L	0.00010	1.431	µg/L	0.1019	7.12%
K 766.490†	194.6	0.0270	mg/L	0.01077	27.05	µg/L	10.768	39.81%
Mg 279.077†	8.9	0.0024	mg/L	0.00262	2.413	µg/L	2.6249	108.77%
Mn 257.610†	8.9	0.0001	mg/L	0.00005	0.0688	µg/L	0.04667	67.84%
Mo 202.031†	3.4	0.0010	mg/L	0.00070	1.034	µg/L	0.7019	67.87%
Na 589.592†	213.9	0.0121	mg/L	0.00110	12.15	µg/L	1.099	9.05%
Ni 231.604†	3.3	0.0005	mg/L	0.00052	0.4865	µg/L	0.52430	107.76%
Pb 220.353†	2.4	0.0016	mg/L	0.00223	1.596	µg/L	2.2270	139.56%
Sb 206.836†	1.0	0.0016	mg/L	0.00634	1.554	µg/L	6.3382	407.80%
Se 196.026†	1.2	0.0024	mg/L	0.00237	2.397	µg/L	2.3698	98.85%
Sn 189.927†	-2.0	-0.0045	mg/L	0.00323	-4.452	µg/L	3.2310	72.58%
Ti 334.940†	10.2	0.0001	mg/L	0.00025	0.0638	µg/L	0.25318	396.64%
Tl 190.801†	0.7	0.0074	mg/L	0.02080	7.426	µg/L	20.7986	280.06%
V 292.402†	10.2	0.0003	mg/L	0.00058	0.2853	µg/L	0.58301	204.35%
Zn 206.200†	2.8	0.0003	mg/L	0.00047	0.3043	µg/L	0.46717	153.54%
Li 670.784†	-28.8	-0.0001	mg/L	0.00009	-0.1490	µg/L	0.08872	59.55%
Sr 421.552†	41.4	0.0000	mg/L	0.00001	0.0342	µg/L	0.00921	26.95%

Sequence No.: 14
Sample ID: BB20803-BS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 2/10/2012 10:31:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20803-BS2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	610306.0	98.37	%	0.507				0.52%
Ag 328.068†	2682.1						37.36	1.39%
Al 308.215†	7843.0	2.027	mg/L	0.0236	2027	µg/L	23.6	1.17%
As 188.979†	219.7	0.5251	mg/L	0.00442	525.1	µg/L	4.42	0.84%
B 249.677†	6328.1	0.5110	mg/L	0.00604	511.0	µg/L	6.04	1.18%
Ba 233.527†	35348.3	2.065	mg/L	0.0134	2065	µg/L	13.4	0.65%
Be 313.107†	37929.3	0.0527	mg/L	0.00041	52.69	µg/L	0.415	0.79%
Ca 317.933†	422477.4	10.49	mg/L	0.038	10490	µg/L	38.3	0.37%
Cd 214.440†	1847.1	0.0499	mg/L	0.00019	49.89	µg/L	0.189	0.38%
Co 228.616†	3154.7	0.5149	mg/L	0.00318	514.9	µg/L	3.18	0.62%
Cr 205.560†	3060.3	0.5283	mg/L	0.00453	528.3	µg/L	4.53	0.86%
Cu 327.393†	17443.7	0.5320	mg/L	0.00311	532.0	µg/L	3.11	0.58%
Fe 238.204†	135753.4	5.211	mg/L	0.0384	5211	µg/L	38.4	0.74%
K 766.490†	146571.0	20.37	mg/L	0.069	20370	µg/L	69.1	0.34%
Mg 279.077†	38901.3	10.50	mg/L	0.071	10500	µg/L	70.8	0.67%
Mn 257.610†	67787.7	0.5267	mg/L	0.00316	526.7	µg/L	3.16	0.60%
Mo 202.031†	1739.8	0.5321	mg/L	0.00615	532.1	µg/L	6.15	1.16%
Na 589.592†	184727.0	10.49	mg/L	0.036	10490	µg/L	36.2	0.34%
Ni 231.604†	3607.7	0.5295	mg/L	0.00325	529.5	µg/L	3.25	0.61%
Pb 220.353†	748.5	0.5015	mg/L	0.00631	501.5	µg/L	6.31	1.26%
Sb 206.836†	354.0	0.5463	mg/L	0.00723	546.3	µg/L	7.23	1.32%
Se 196.026†	275.4	0.5321	mg/L	0.00838	532.1	µg/L	8.38	1.58%
Sn 189.927†	246.6	0.5362	mg/L	0.01453	536.2	µg/L	14.53	2.71%
Ti 334.940†	83856.5	0.5266	mg/L	0.00415	526.6	µg/L	4.15	0.79%
Tl 190.801†	56.4	0.5616	mg/L	0.01289	561.6	µg/L	12.89	2.30%
V 292.402†	18187.3	0.5092	mg/L	0.00243	509.2	µg/L	2.43	0.48%
Zn 206.200†	4998.0	0.5329	mg/L	0.00403	532.9	µg/L	4.03	0.76%
Li 670.784†	97323.0	0.5029	mg/L	0.00153	502.9	µg/L	1.53	0.30%
Sr 421.552†	631972.6	0.5216	mg/L	0.00142	521.6	µg/L	1.42	0.27%

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Sequence No.: 15
Sample ID: 1202003-13
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 2/10/2012 10:35:19 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-13

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	616351.9	99.34	%	0.423				0.43%
Ag 328.068†	65.2						9.26	14.22%
Al 308.215†	1.6	-0.0011	mg/L	0.00571	-1.094	µg/L	5.7069	521.50%
As 188.979†	3.0	0.0074	mg/L	0.00241	7.415	µg/L	2.4129	32.54%
B 249.677†	508.6	0.0411	mg/L	0.00136	41.12	µg/L	1.358	3.30%
Ba 233.527†	323.0	0.0189	mg/L	0.00034	18.87	µg/L	0.342	1.81%
Be 313.107†	40.0	0.0001	mg/L	0.00003	0.0553	µg/L	0.03049	55.10%
Ca 317.933†	62914.6	1.562	mg/L	0.0074	1562	µg/L	7.4	0.47%
Cd 214.440†	2.8	0.0001	mg/L	0.00006	0.0807	µg/L	0.05936	73.57%
Co 228.616†	-2.5	-0.0004	mg/L	0.00033	-0.3999	µg/L	0.33412	83.55%
Cr 205.560†	-3.2	-0.0006	mg/L	0.00039	-0.5587	µg/L	0.39427	70.58%
Cu 327.393†	447.5	0.0136	mg/L	0.00032	13.55	µg/L	0.316	2.33%
Fe 238.204†	135.3	0.0052	mg/L	0.00032	5.192	µg/L	0.3170	6.11%
K 766.490†	2191.4	0.3046	mg/L	0.00361	304.6	µg/L	3.61	1.19%
Mg 279.077†	2328.5	0.6287	mg/L	0.00533	628.7	µg/L	5.33	0.85%
Mn 257.610†	73.4	0.0006	mg/L	0.00006	0.5703	µg/L	0.06398	11.22%
Mo 202.031†	1.6	0.0005	mg/L	0.00022	0.4996	µg/L	0.21908	43.85%
Na 589.592†	1137711.0	64.60	mg/L	0.199	64600	µg/L	198.5	0.31%
Ni 231.604†	4.4	0.0007	mg/L	0.00106	0.6513	µg/L	1.05635	162.18%
Pb 220.353†	-3.0	-0.0020	mg/L	0.00854	-2.034	µg/L	8.5442	420.07%
Sb 206.836†	0.7	0.0009	mg/L	0.00747	0.9339	µg/L	7.46905	799.75%
Se 196.026†	3.5	0.0068	mg/L	0.00380	6.770	µg/L	3.7985	56.11%
Sn 189.927†	1.4	0.0009	mg/L	0.00488	0.9240	µg/L	4.87884	528.02%
Ti 334.940†	-5.8	0.0000	mg/L	0.00016	-0.0364	µg/L	0.15573	428.12%
Tl 190.801†	4.2	0.0433	mg/L	0.02007	43.28	µg/L	20.071	46.37%
V 292.402†	9.8	0.0003	mg/L	0.00002	0.2755	µg/L	0.02421	8.79%
Zn 206.200†	16.8	0.0018	mg/L	0.00065	1.789	µg/L	0.6491	36.28%
Li 670.784†	5135.9	0.0265	mg/L	0.00025	26.54	µg/L	0.246	0.93%

Sr 421.552†	38922.9	0.0321	mg/L	0.00026	32.12	µg/L	0.255	0.79%

Sequence No.: 16
Sample ID: 1202003-14
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 2/10/2012 10:40:28 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-14

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	620580.5	100.0	%	0.25				0.25%
Ag 328.068†	-1.5						33.94	>999.9%
Al 308.215†	5.7	-0.0296	mg/L	0.00460	-29.61	µg/L	4.598	15.53%
As 188.979†	3.9	0.0136	mg/L	0.00344	13.59	µg/L	3.445	25.36%
B 249.677†	801.2	0.0648	mg/L	0.00103	64.77	µg/L	1.031	1.59%
Ba 233.527†	8559.3	0.5000	mg/L	0.00085	500.0	µg/L	0.85	0.17%
Be 313.107†	-19.8	0.0000	mg/L	0.00006	-0.0268	µg/L	0.05796	216.52%
Ca 317.933†	1302258.7	32.33	mg/L	0.119	32330	µg/L	119.0	0.37%
Cd 214.440†	-9.5	-0.0003	mg/L	0.00007	-0.2544	µg/L	0.07308	28.73%
Co 228.616†	-6.8	-0.0011	mg/L	0.00085	-1.107	µg/L	0.8455	76.36%
Cr 205.560†	20.7	0.0036	mg/L	0.00038	3.567	µg/L	0.3825	10.72%
Cu 327.393†	137.1	0.0017	mg/L	0.00089	1.732	µg/L	0.8868	51.21%
Fe 238.204†	91.8	0.0035	mg/L	0.00016	3.522	µg/L	0.1623	4.61%
K 766.490†	11367.8	1.580	mg/L	0.0134	1580	µg/L	13.4	0.85%
Mg 279.077†	32182.0	8.689	mg/L	0.0053	8689	µg/L	5.3	0.06%
Mn 257.610†	231.4	0.0018	mg/L	0.00004	1.798	µg/L	0.0436	2.43%
Mo 202.031†	-1.2	-0.0004	mg/L	0.00159	-0.3709	µg/L	1.58710	427.92%
Na 589.592†	448428.4	25.46	mg/L	0.134	25460	µg/L	134.4	0.53%
Ni 231.604†	-0.7	-0.0001	mg/L	0.00027	-0.1094	µg/L	0.26743	244.46%
Pb 220.353†	-23.0	-0.0154	mg/L	0.00390	-15.45	µg/L	3.904	25.27%
Sb 206.836†	0.1	-0.0034	mg/L	0.00617	-3.374	µg/L	6.1681	182.80%
Se 196.026†	5.1	0.0098	mg/L	0.00715	9.819	µg/L	7.1534	72.86%
Sn 189.927†	22.4	0.0048	mg/L	0.00468	4.778	µg/L	4.6799	97.95%
Ti 334.940†	-15.0	-0.0001	mg/L	0.00013	-0.0942	µg/L	0.12800	135.85%
Tl 190.801†	11.6	0.1086	mg/L	0.01982	108.6	µg/L	19.82	18.26%
V 292.402†	9.7	0.0003	mg/L	0.00039	0.2721	µg/L	0.38639	141.99%
Zn 206.200†	31.3	0.0033	mg/L	0.00024	3.342	µg/L	0.2409	7.21%
Li 670.784†	7188.2	0.0371	mg/L	0.00019	37.14	µg/L	0.189	0.51%
Sr 421.552†	1058274.3	0.8734	mg/L	0.00557	873.4	µg/L	5.57	0.64%

Sequence No.: 17
Sample ID: BB20803-DUP2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 2/10/2012 10:44:07 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20803-DUP2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	626147.8	100.9	%	1.27				1.26%
Ag 328.068†	-16.5						10.40	63.04%
Al 308.215†	8.4	-0.0293	mg/L	0.00372	-29.33	µg/L	3.721	12.69%
As 188.979†	4.1	0.0141	mg/L	0.00683	14.14	µg/L	6.832	48.31%
B 249.677†	809.0	0.0654	mg/L	0.00081	65.40	µg/L	0.808	1.23%
Ba 233.527†	8623.1	0.5037	mg/L	0.00664	503.7	µg/L	6.64	1.32%
Be 313.107†	35.8	0.0001	mg/L	0.00003	0.0505	µg/L	0.03294	65.23%
Ca 317.933†	1320028.0	32.77	mg/L	0.404	32770	µg/L	404.0	1.23%
Cd 214.440†	-16.7	-0.0004	mg/L	0.00002	-0.4491	µg/L	0.01767	3.93%
Co 228.616†	-8.5	-0.0014	mg/L	0.00044	-1.379	µg/L	0.4397	31.88%
Cr 205.560†	23.9	0.0041	mg/L	0.00103	4.115	µg/L	1.0302	25.03%
Cu 327.393†	138.5	0.0017	mg/L	0.00097	1.740	µg/L	0.9722	55.87%
Fe 238.204†	115.2	0.0044	mg/L	0.00038	4.422	µg/L	0.3796	8.58%
K 766.490†	11388.7	1.583	mg/L	0.0299	1583	µg/L	29.9	1.89%
Mg 279.077†	32534.2	8.784	mg/L	0.0934	8784	µg/L	93.4	1.06%
Mn 257.610†	214.6	0.0017	mg/L	0.00011	1.667	µg/L	0.1077	6.46%
Mo 202.031†	-3.7	-0.0011	mg/L	0.00122	-1.139	µg/L	1.2214	107.23%
Na 589.592†	455498.7	25.86	mg/L	0.248	25860	µg/L	248.5	0.96%

Ni 231.604†	-4.2	-0.0006	mg/L	0.00070	-0.6179	µg/L	0.70365 113.87%
Pb 220.353†	-23.0	-0.0155	mg/L	0.00287	-15.45	µg/L	2.871 18.58%
Sb 206.836†	2.3	0.0001	mg/L	0.00404	0.1103	µg/L	4.04116 >999.9%
Se 196.026†	9.6	0.0186	mg/L	0.01455	18.62	µg/L	14.550 78.13%
Sn 189.927†	24.1	0.0080	mg/L	0.01014	7.991	µg/L	10.1384 126.88%
Ti 334.940†	-1.9	0.0000	mg/L	0.00003	-0.0119	µg/L	0.03084 260.16%
Tl 190.801†	11.3	0.1054	mg/L	0.01647	105.4	µg/L	16.47 15.62%
V 292.402†	-3.8	-0.0001	mg/L	0.00020	-0.1070	µg/L	0.20247 189.23%
Zn 206.200†	28.8	0.0031	mg/L	0.00024	3.073	µg/L	0.2353 7.66%
Li 670.784†	7214.5	0.0373	mg/L	0.00039	37.28	µg/L	0.395 1.06%
Sr 421.552†	1077871.0	0.8896	mg/L	0.00822	889.6	µg/L	8.22 0.92%

Sequence No.: 18
Sample ID: 1202003-15
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 2/10/2012 10:47:48 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-15

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	617996.8	99.61	%	0.639				0.64%
Ag 328.068†	-30.7						58.85	191.48%
Al 308.215†	31.9	-0.0253	mg/L	0.00802	-25.34	µg/L	8.020	31.65%
As 188.979†	5.9	0.0179	mg/L	0.01407	17.85	µg/L	14.065	78.79%
B 249.677†	798.1	0.0645	mg/L	0.00034	64.51	µg/L	0.345	0.53%
Ba 233.527†	2007.0	0.1172	mg/L	0.00097	117.2	µg/L	0.97	0.83%
Be 313.107†	-16.1	0.0000	mg/L	0.00005	-0.0216	µg/L	0.05174	239.36%
Ca 317.933†	1408910.4	34.97	mg/L	0.094	34970	µg/L	93.9	0.27%
Cd 214.440†	-8.7	-0.0002	mg/L	0.00012	-0.2354	µg/L	0.12201	51.84%
Co 228.616†	-0.9	-0.0002	mg/L	0.00107	-0.1523	µg/L	1.07250	704.34%
Cr 205.560†	19.5	0.0034	mg/L	0.00080	3.373	µg/L	0.7990	23.69%
Cu 327.393†	40.2	-0.0014	mg/L	0.00026	-1.429	µg/L	0.2563	17.93%
Fe 238.204†	309.6	0.0119	mg/L	0.00033	11.88	µg/L	0.335	2.82%
K 766.490†	12464.6	1.732	mg/L	0.0043	1732	µg/L	4.3	0.25%
Mg 279.077†	29109.9	7.859	mg/L	0.0513	7859	µg/L	51.3	0.65%
Mn 257.610†	1319.6	0.0103	mg/L	0.00014	10.25	µg/L	0.145	1.41%
Mo 202.031†	-2.3	-0.0007	mg/L	0.00033	-0.7065	µg/L	0.33220	47.02%
Na 589.592†	246913.9	14.02	mg/L	0.065	14020	µg/L	65.4	0.47%
Ni 231.604†	-0.4	-0.0001	mg/L	0.00121	-0.0526	µg/L	1.20728	>999.9%
Pb 220.353†	-26.2	-0.0176	mg/L	0.00208	-17.60	µg/L	2.079	11.81%
Sb 206.836†	0.5	-0.0025	mg/L	0.00691	-2.494	µg/L	6.9051	276.91%
Se 196.026†	3.1	0.0060	mg/L	0.00322	5.986	µg/L	3.2218	53.82%
Sn 189.927†	25.4	0.0077	mg/L	0.01246	7.699	µg/L	12.4579	161.80%
Ti 334.940†	-13.1	-0.0001	mg/L	0.00022	-0.0825	µg/L	0.21618	262.00%
Tl 190.801†	12.6	0.1201	mg/L	0.04006	120.1	µg/L	40.06	33.37%
V 292.402†	8.4	0.0002	mg/L	0.00036	0.2363	µg/L	0.35963	152.18%
Zn 206.200†	5.5	0.0006	mg/L	0.00051	0.5809	µg/L	0.51357	88.40%
Li 670.784†	4922.3	0.0254	mg/L	0.00007	25.43	µg/L	0.074	0.29%
Sr 421.552†	1560577.0	1.288	mg/L	0.0064	1288	µg/L	6.4	0.50%

Sequence No.: 19
Sample ID: 1202003-16
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 2/10/2012 10:51:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-16

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	613856.6	98.94	%	0.819				0.83%
Ag 328.068†	-18.0						24.96	138.62%
Al 308.215†	19.2	-0.0284	mg/L	0.00365	-28.35	µg/L	3.651	12.88%
As 188.979†	4.2	0.0136	mg/L	0.00925	13.59	µg/L	9.252	68.08%
B 249.677†	874.7	0.0707	mg/L	0.00021	70.70	µg/L	0.208	0.29%
Ba 233.527†	2121.1	0.1239	mg/L	0.00108	123.9	µg/L	1.08	0.87%
Be 313.107†	-23.7	0.0000	mg/L	0.00002	-0.0321	µg/L	0.02339	72.77%
Ca 317.933†	1397043.6	34.68	mg/L	0.187	34680	µg/L	186.7	0.54%

Cd 214.440†	-0.1	0.0000	mg/L	0.00012	-0.0005	µg/L	0.11647 >999.9%
Co 228.616†	-2.7	-0.0004	mg/L	0.00020	-0.4440	µg/L	0.19907 44.83%
Cr 205.560†	21.0	0.0036	mg/L	0.00005	3.616	µg/L	0.0549 1.52%
Cu 327.393†	40.2	-0.0014	mg/L	0.00110	-1.407	µg/L	1.1015 78.30%
Fe 238.204†	206.6	0.0079	mg/L	0.00057	7.928	µg/L	0.5707 7.20%
K 766.490†	12957.9	1.801	mg/L	0.0188	1801	µg/L	18.8 1.04%
Mg 279.077†	28139.2	7.597	mg/L	0.0868	7597	µg/L	86.8 1.14%
Mn 257.610†	1553.7	0.0121	mg/L	0.00016	12.07	µg/L	0.165 1.37%
Mo 202.031†	2.2	0.0007	mg/L	0.00092	0.6727	µg/L	0.91552 136.10%
Na 589.592†	258916.1	14.70	mg/L	0.047	14700	µg/L	46.8 0.32%
Ni 231.604†	-5.4	-0.0008	mg/L	0.00034	-0.7978	µg/L	0.34291 42.98%
Pb 220.353†	-27.6	-0.0185	mg/L	0.00227	-18.53	µg/L	2.270 12.25%
Sb 206.836†	2.9	0.0016	mg/L	0.00383	1.592	µg/L	3.8347 240.84%
Se 196.026†	5.6	0.0108	mg/L	0.00346	10.77	µg/L	3.457 32.09%
Sn 189.927†	27.8	0.0136	mg/L	0.00420	13.56	µg/L	4.197 30.95%
Ti 334.940†	-2.7	0.0000	mg/L	0.00014	-0.0167	µg/L	0.13735 821.85%
Tl 190.801†	13.2	0.1265	mg/L	0.01358	126.5	µg/L	13.58 10.73%
V 292.402†	7.9	0.0002	mg/L	0.00036	0.2225	µg/L	0.35740 160.61%
Zn 206.200†	6.0	0.0006	mg/L	0.00059	0.6380	µg/L	0.59137 92.69%
Li 670.784†	5313.2	0.0275	mg/L	0.00038	27.45	µg/L	0.382 1.39%
Sr 421.552†	1684072.0	1.390	mg/L	0.0030	1390	µg/L	3.0 0.22%

Sequence No.: 20
Sample ID: 1202003-17
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 2/10/2012 10:55:17 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-17

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	620943.0	100.1	%	0.22				0.22%
Ag 328.068†	-27.0						29.34	108.56%
Al 308.215†	-24.0	-0.0380	mg/L	0.00593	-38.02	µg/L	5.928	15.59%
As 188.979†	4.8	0.0147	mg/L	0.00523	14.74	µg/L	5.235	35.50%
B 249.677†	801.0	0.0646	mg/L	0.00132	64.59	µg/L	1.322	2.05%
Ba 233.527†	9134.2	0.5336	mg/L	0.00342	533.6	µg/L	3.42	0.64%
Be 313.107†	38.4	0.0001	mg/L	0.00004	0.0540	µg/L	0.03533	65.43%
Ca 317.933†	1331349.4	33.05	mg/L	0.089	33050	µg/L	88.6	0.27%
Cd 214.440†	-8.6	-0.0002	mg/L	0.00011	-0.2356	µg/L	0.10854	46.06%
Co 228.616†	-6.6	-0.0011	mg/L	0.00082	-1.085	µg/L	0.8193	75.54%
Cr 205.560†	21.2	0.0037	mg/L	0.00015	3.673	µg/L	0.1484	4.04%
Cu 327.393†	8.8	-0.0022	mg/L	0.00060	-2.240	µg/L	0.6013	26.84%
Fe 238.204†	4103.5	0.1575	mg/L	0.00123	157.5	µg/L	1.23	0.78%
K 766.490†	11481.2	1.596	mg/L	0.0082	1596	µg/L	8.2	0.52%
Mg 279.077†	32890.3	8.880	mg/L	0.0462	8880	µg/L	46.2	0.52%
Mn 257.610†	20746.3	0.1612	mg/L	0.00088	161.2	µg/L	0.88	0.55%
Mo 202.031†	-2.9	-0.0009	mg/L	0.00140	-0.8914	µg/L	1.40484	157.59%
Na 589.592†	470944.4	26.74	mg/L	0.096	26740	µg/L	96.0	0.36%
Ni 231.604†	4.3	0.0006	mg/L	0.00125	0.6326	µg/L	1.24657	197.04%
Pb 220.353†	-25.0	-0.0168	mg/L	0.00202	-16.77	µg/L	2.019	12.04%
Sb 206.836†	1.1	-0.0021	mg/L	0.00889	-2.116	µg/L	8.8937	420.26%
Se 196.026†	7.1	0.0137	mg/L	0.00729	13.73	µg/L	7.294	53.10%
Sn 189.927†	24.3	0.0081	mg/L	0.01154	8.102	µg/L	11.5447	142.49%
Ti 334.940†	-36.2	-0.0002	mg/L	0.00021	-0.2271	µg/L	0.20522	90.36%
Tl 190.801†	13.1	0.1239	mg/L	0.02204	123.9	µg/L	22.04	17.79%
V 292.402†	14.8	0.0004	mg/L	0.00010	0.4150	µg/L	0.10158	24.48%
Zn 206.200†	13.2	0.0014	mg/L	0.00068	1.412	µg/L	0.6824	48.32%
Li 670.784†	7304.1	0.0377	mg/L	0.00051	37.74	µg/L	0.507	1.34%
Sr 421.552†	1094106.7	0.9030	mg/L	0.00354	903.0	µg/L	3.54	0.39%

Sequence No.: 21
Sample ID: BB20803-MS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 2/10/2012 10:59:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20803-MS2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	608363.1	98.06	%	0.339				0.35%
Ag 328.068†	2506.6						11.26	0.45%
Al 308.215†	7874.3	2.003	mg/L	0.0019	2003	µg/L	1.9	0.10%
As 188.979†	223.5	0.5375	mg/L	0.00445	537.5	µg/L	4.45	0.83%
B 249.677†	7177.5	0.5796	mg/L	0.00548	579.6	µg/L	5.48	0.95%
Ba 233.527†	44266.6	2.586	mg/L	0.0094	2586	µg/L	9.4	0.36%
Be 313.107†	38105.0	0.0529	mg/L	0.00036	52.93	µg/L	0.361	0.68%
Ca 317.933†	1772156.8	43.99	mg/L	0.076	43990	µg/L	75.9	0.17%
Cd 214.440†	1813.9	0.0490	mg/L	0.00027	48.98	µg/L	0.268	0.55%
Co 228.616†	3101.1	0.5062	mg/L	0.00342	506.2	µg/L	3.42	0.67%
Cr 205.560†	3049.0	0.5264	mg/L	0.00344	526.4	µg/L	3.44	0.65%
Cu 327.393†	17328.0	0.5259	mg/L	0.00344	525.9	µg/L	3.44	0.65%
Fe 238.204†	139422.0	5.351	mg/L	0.0211	5351	µg/L	21.1	0.39%
K 766.490†	158464.6	22.02	mg/L	0.047	22020	µg/L	47.3	0.21%
Mg 279.077†	71898.9	19.41	mg/L	0.067	19410	µg/L	67.1	0.35%
Mn 257.610†	88403.5	0.6869	mg/L	0.00345	686.9	µg/L	3.45	0.50%
Mo 202.031†	1697.2	0.5191	mg/L	0.00450	519.1	µg/L	4.50	0.87%
Na 589.592†	657305.6	37.32	mg/L	0.068	37320	µg/L	68.0	0.18%
Ni 231.604†	3538.8	0.5194	mg/L	0.00065	519.4	µg/L	0.65	0.13%
Pb 220.353†	708.7	0.4748	mg/L	0.00389	474.8	µg/L	3.89	0.82%
Sb 206.836†	356.8	0.5470	mg/L	0.01359	547.0	µg/L	13.59	2.48%
Se 196.026†	277.0	0.5351	mg/L	0.01224	535.1	µg/L	12.24	2.29%
Sn 189.927†	264.7	0.5297	mg/L	0.00650	529.7	µg/L	6.50	1.23%
Ti 334.940†	82790.8	0.5199	mg/L	0.00266	519.9	µg/L	2.66	0.51%
Tl 190.801†	64.9	0.6364	mg/L	0.01123	636.4	µg/L	11.23	1.76%
V 292.402†	18334.2	0.5133	mg/L	0.00411	513.3	µg/L	4.11	0.80%
Zn 206.200†	4975.2	0.5305	mg/L	0.00221	530.5	µg/L	2.21	0.42%
Li 670.784†	104386.9	0.5394	mg/L	0.00123	539.4	µg/L	1.23	0.23%
Sr 421.552†	1728693.0	1.427	mg/L	0.0013	1427	µg/L	1.3	0.09%

Sequence No.: 22
Sample ID: IBL
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/10/2012 11:02:52 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: IBL

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	612937.5	98.79	%	1.229				1.24%
Ag 328.068†	67.5						17.77	26.33%
Unable to evaluate QC.								
Al 308.215†	23.9	0.0062	mg/L	0.00550	6.187	µg/L	5.4982	88.86%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-3.5	-0.0082	mg/L	0.00380	-8.212	µg/L	3.8037	46.32%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	69.9	0.0056	mg/L	0.00118	5.647	µg/L	1.1837	20.96%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	4.3	0.0002	mg/L	0.00039	0.2484	µg/L	0.38513	155.05%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	31.3	0.0000	mg/L	0.00003	0.0434	µg/L	0.03215	74.09%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	324.0	0.0080	mg/L	0.00338	8.042	µg/L	3.3832	42.07%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 214.440†	-3.0	-0.0001	mg/L	0.00022	-0.0808	µg/L	0.22447	277.77%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	-2.5	-0.0004	mg/L	0.00022	-0.4149	µg/L	0.21640	52.16%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	-0.4	-0.0001	mg/L	0.00006	-0.0646	µg/L	0.05668	87.77%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 327.393†	59.2	0.0018	mg/L	0.00096	1.808	µg/L	0.9596	53.06%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	25.3	0.0010	mg/L	0.00010	0.9716	µg/L	0.10353	10.66%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	371.2	0.0516	mg/L	0.01225	51.58	µg/L	12.252	23.75%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	8.7	0.0024	mg/L	0.00280	2.357	µg/L	2.7951	118.60%
QC value within limits for Mg 279.077 Recovery = Not calculated								

Mn 257.610†	8.4	0.0001 mg/L	0.00008	0.0652 µg/L	0.07797	119.60%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	1.4	0.0004 mg/L	0.00132	0.4226 µg/L	1.31832	311.97%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	883.7	0.0502 mg/L	0.01356	50.17 µg/L	13.564	27.03%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	1.0	0.0002 mg/L	0.00034	0.1538 µg/L	0.34493	224.25%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-4.0	-0.0027 mg/L	0.00191	-2.670 µg/L	1.9100	71.52%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-3.6	-0.0057 mg/L	0.00378	-5.687 µg/L	3.7760	66.40%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	1.4	0.0026 mg/L	0.00607	2.638 µg/L	6.0658	229.92%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-1.4	-0.0032 mg/L	0.01157	-3.206 µg/L	11.5666	360.75%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 334.940†	-5.8	0.0000 mg/L	0.00017	-0.0366 µg/L	0.16520	451.79%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	3.3	0.0352 mg/L	0.01269	35.20 µg/L	12.685	36.04%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	4.1	0.0001 mg/L	0.00025	0.1152 µg/L	0.24953	216.63%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	3.7	0.0004 mg/L	0.00025	0.3961 µg/L	0.24652	62.23%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Li 670.784†	44.0	0.0002 mg/L	0.00031	0.2274 µg/L	0.31180	137.09%
QC value within limits for Li 670.784 Recovery = Not calculated						
Sr 421.552†	173.9	0.0001 mg/L	0.00006	0.1435 µg/L	0.05703	39.74%
QC value within limits for Sr 421.552 Recovery = Not calculated						

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 23
Sample ID: CCV@A/B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/10/2012 11:06:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV@A/B

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	611179.8	98.51	%	0.279				0.28%
Ag 328.068†	-266.4						22.02	8.27%
Al 308.215†	38566.8	9.992	mg/L	0.0320	9992	µg/L	32.0	0.32%
QC value within limits for Al 308.215 Recovery = 99.92%								
As 188.979†	2140.5	5.039	mg/L	0.0343	5039	µg/L	34.3	0.68%
QC value within limits for As 188.979 Recovery = 100.78%								
B 249.677†	31075.5	2.507	mg/L	0.0124	2507	µg/L	12.4	0.50%
QC value within limits for B 249.677 Recovery = 100.28%								
Ba 233.527†	42464.9	2.481	mg/L	0.0012	2481	µg/L	1.2	0.05%
QC value within limits for Ba 233.527 Recovery = 99.23%								
Be 313.107†	1828277.3	2.535	mg/L	0.0033	2535	µg/L	3.3	0.13%
QC value within limits for Be 313.107 Recovery = 101.42%								
Ca 317.933†	1028349.6	25.53	mg/L	0.040	25530	µg/L	39.5	0.15%
QC value within limits for Ca 317.933 Recovery = 102.10%								
Cd 214.440†	90477.2	2.451	mg/L	0.0054	2451	µg/L	5.4	0.22%
QC value within limits for Cd 214.440 Recovery = 98.04%								
Co 228.616†	15280.9	2.494	mg/L	0.0087	2494	µg/L	8.7	0.35%
QC value within limits for Co 228.616 Recovery = 99.77%								
Cr 205.560†	29745.3	5.129	mg/L	0.0054	5129	µg/L	5.4	0.10%
QC value within limits for Cr 205.560 Recovery = 102.58%								
Cu 327.393†	167264.5	5.107	mg/L	0.0124	5107	µg/L	12.4	0.24%
QC value within limits for Cu 327.393 Recovery = 102.14%								
Fe 238.204†	265515.3	10.19	mg/L	0.017	10190	µg/L	16.8	0.16%
QC value within limits for Fe 238.204 Recovery = 101.91%								
K 766.490†	178427.0	24.80	mg/L	0.013	24800	µg/L	12.9	0.05%
QC value within limits for K 766.490 Recovery = 99.19%								
Mg 279.077†	93768.9	25.32	mg/L	0.023	25320	µg/L	22.6	0.09%
QC value within limits for Mg 279.077 Recovery = 101.27%								
Mn 257.610†	654619.3	5.087	mg/L	0.0061	5087	µg/L	6.1	0.12%
QC value within limits for Mn 257.610 Recovery = 101.73%								
Mo 202.031†	1666.8	0.5098	mg/L	0.00357	509.8	µg/L	3.57	0.70%

	QC value within limits for Mo 202.031 Recovery = 101.96%						
Na 589.592†	448367.9	25.46	mg/L	0.055	25460	µg/L	55.2	0.22%
	QC value within limits for Na 589.592 Recovery = 101.83%						
Ni 231.604†	35132.8	5.156	mg/L	0.0088	5156	µg/L	8.8	0.17%
	QC value within limits for Ni 231.604 Recovery = 103.12%						
Pb 220.353†	3667.3	2.453	mg/L	0.0130	2453	µg/L	13.0	0.53%
	QC value within limits for Pb 220.353 Recovery = 98.13%						
Sb 206.836†	1671.2	2.547	mg/L	0.0185	2547	µg/L	18.5	0.73%
	QC value within limits for Sb 206.836 Recovery = 101.87%						
Se 196.026†	1330.0	2.569	mg/L	0.0164	2569	µg/L	16.4	0.64%
	QC value within limits for Se 196.026 Recovery = 102.78%						
Sn 189.927†	1161.3	2.558	mg/L	0.0158	2558	µg/L	15.8	0.62%
	QC value within limits for Sn 189.927 Recovery = 102.34%						
Ti 334.940†	80828.3	0.5076	mg/L	0.00126	507.6	µg/L	1.26	0.25%
	QC value within limits for Ti 334.940 Recovery = 101.51%						
Tl 190.801†	243.1	2.471	mg/L	0.0021	2471	µg/L	2.1	0.09%
	QC value within limits for Tl 190.801 Recovery = 98.85%						
V 292.402†	44977.3	1.259	mg/L	0.0041	1259	µg/L	4.1	0.33%
	QC value within limits for V 292.402 Recovery = 100.74%						
Zn 206.200†	95917.5	10.23	mg/L	0.029	10230	µg/L	29.3	0.29%
	QC value within limits for Zn 206.200 Recovery = 102.33%						
Li 670.784†	472192.7	2.440	mg/L	0.0010	2440	µg/L	1.0	0.04%
	QC value within limits for Li 670.784 Recovery = 97.60%						
Sr 421.552†	3074664.2	2.538	mg/L	0.0308	2538	µg/L	30.8	1.21%
	QC value within limits for Sr 421.552 Recovery = 101.50%						

All analyte(s) passed QC.

Sequence No.: 24
Sample ID: 1202003-18
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 2/10/2012 11:10:47 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-18

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	618926.6	99.76	%	0.527				0.53%
Ag 328.068†	53.2						23.18	43.61%
Al 308.215†	27.5	0.0071	mg/L	0.00537	7.134	µg/L	5.3734	75.33%
As 188.979†	0.7	0.0017	mg/L	0.00666	1.670	µg/L	6.6557	398.59%
B 249.677†	246.0	0.0199	mg/L	0.00223	19.89	µg/L	2.230	11.22%
Ba 233.527†	3.1	0.0002	mg/L	0.00015	0.1784	µg/L	0.14954	83.81%
Be 313.107†	274.6	0.0004	mg/L	0.00008	0.3808	µg/L	0.08232	21.62%
Ca 317.933†	891.5	0.0221	mg/L	0.00199	22.13	µg/L	1.987	8.98%
Cd 214.440†	4.3	0.0001	mg/L	0.00021	0.1162	µg/L	0.20915	179.97%
Co 228.616†	-3.6	-0.0006	mg/L	0.00067	-0.5945	µg/L	0.67232	113.08%
Cr 205.560†	5.6	0.0010	mg/L	0.00077	0.9701	µg/L	0.76881	79.25%
Cu 327.393†	103.4	0.0032	mg/L	0.00039	3.157	µg/L	0.3864	12.24%
Fe 238.204†	52.8	0.0020	mg/L	0.00012	2.028	µg/L	0.1242	6.12%
K 766.490†	480.1	0.0667	mg/L	0.00707	66.72	µg/L	7.071	10.60%
Mg 279.077†	22.7	0.0061	mg/L	0.00234	6.134	µg/L	2.3416	38.17%
Mn 257.610†	46.5	0.0004	mg/L	0.00014	0.3612	µg/L	0.14290	39.56%
Mo 202.031†	0.4	0.0001	mg/L	0.00168	0.1308	µg/L	1.68187	>999.9%
Na 589.592†	784.1	0.0445	mg/L	0.00784	44.52	µg/L	7.842	17.61%
Ni 231.604†	5.6	0.0008	mg/L	0.00063	0.8248	µg/L	0.62736	76.07%
Pb 220.353†	1.6	0.0011	mg/L	0.00169	1.080	µg/L	1.6935	156.78%
Sb 206.836†	5.9	0.0094	mg/L	0.00582	9.422	µg/L	5.8163	61.73%
Se 196.026†	2.5	0.0048	mg/L	0.00862	4.780	µg/L	8.6196	180.34%
Sn 189.927†	-0.9	-0.0021	mg/L	0.00522	-2.076	µg/L	5.2154	251.27%
Ti 334.940†	-10.7	-0.0001	mg/L	0.00005	-0.0670	µg/L	0.04629	69.12%
Tl 190.801†	1.7	0.0178	mg/L	0.00773	17.80	µg/L	7.734	43.45%
V 292.402†	6.2	0.0002	mg/L	0.00022	0.1740	µg/L	0.21558	123.93%
Zn 206.200†	34.6	0.0037	mg/L	0.00097	3.686	µg/L	0.9749	26.44%
Li 670.784†	-33.7	-0.0002	mg/L	0.00059	-0.1742	µg/L	0.59012	338.68%
Sr 421.552†	384.0	0.0003	mg/L	0.00007	0.3169	µg/L	0.06722	21.21%

Sequence No.: 25
Sample ID: 1202003-19
Analyst:

Autosampler Location: 27
Date Collected: 2/10/2012 11:14:26 AM
Data Type: Original

Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: 1202003-19

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	620239.9	99.97	%	0.672				0.67%
Ag 328.068†	-47.9						38.65	80.64%
Al 308.215†	-10.8	-0.0350	mg/L	0.00250	-35.03	µg/L	2.500	7.14%
As 188.979†	3.9	0.0127	mg/L	0.00970	12.75	µg/L	9.696	76.06%
B 249.677†	901.8	0.0727	mg/L	0.00087	72.74	µg/L	0.869	1.19%
Ba 233.527†	9208.9	0.5380	mg/L	0.00311	538.0	µg/L	3.11	0.58%
Be 313.107†	51.4	0.0001	mg/L	0.00009	0.0719	µg/L	0.09323	129.69%
Ca 317.933†	1350122.9	33.51	mg/L	0.159	33510	µg/L	159.0	0.47%
Cd 214.440†	-0.1	0.0000	mg/L	0.00016	-0.0082	µg/L	0.15817	>999.9%
Co 228.616†	-8.4	-0.0014	mg/L	0.00133	-1.369	µg/L	1.3337	97.40%
Cr 205.560†	17.5	0.0030	mg/L	0.00036	3.041	µg/L	0.3645	11.98%
Cu 327.393†	18.7	-0.0020	mg/L	0.00030	-1.975	µg/L	0.3017	15.28%
Fe 238.204†	4077.2	0.1565	mg/L	0.00201	156.5	µg/L	2.01	1.28%
K 766.490†	11631.9	1.617	mg/L	0.0161	1617	µg/L	16.1	1.00%
Mg 279.077†	33334.9	9.000	mg/L	0.0677	9000	µg/L	67.7	0.75%
Mn 257.610†	20975.6	0.1630	mg/L	0.00125	163.0	µg/L	1.25	0.77%
Mo 202.031†	2.9	0.0009	mg/L	0.00139	0.8765	µg/L	1.39433	159.08%
Na 589.592†	470922.7	26.74	mg/L	0.075	26740	µg/L	75.2	0.28%
Ni 231.604†	-3.6	-0.0005	mg/L	0.00071	-0.5301	µg/L	0.70519	133.02%
Pb 220.353†	-34.0	-0.0228	mg/L	0.00260	-22.83	µg/L	2.596	11.37%
Sb 206.836†	9.5	0.0113	mg/L	0.00723	11.32	µg/L	7.227	63.85%
Se 196.026†	9.0	0.0174	mg/L	0.01027	17.44	µg/L	10.267	58.89%
Sn 189.927†	25.6	0.0102	mg/L	0.00168	10.20	µg/L	1.681	16.48%
Ti 334.940†	-2.0	0.0000	mg/L	0.00008	-0.0124	µg/L	0.08437	677.76%
Tl 190.801†	11.4	0.1050	mg/L	0.04427	105.0	µg/L	44.27	42.15%
V 292.402†	0.1	0.0000	mg/L	0.00010	0.0041	µg/L	0.10016	>999.9%
Zn 206.200†	28.9	0.0031	mg/L	0.00034	3.081	µg/L	0.3379	10.97%
Li 670.784†	7571.7	0.0391	mg/L	0.00027	39.12	µg/L	0.270	0.69%
Sr 421.552†	1092522.3	0.9017	mg/L	0.00213	901.7	µg/L	2.13	0.24%

Sequence No.: 26 Autosampler Location: 28
Sample ID: 1202003-20 Date Collected: 2/10/2012 11:18:13 AM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: 1202003-20

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	615718.1	99.24	%	0.752				0.76%
Ag 328.068†	26.9						35.27	130.90%
Al 308.215†	56.9	-0.0159	mg/L	0.00696	-15.92	µg/L	6.960	43.72%
As 188.979†	5.4	0.0169	mg/L	0.00448	16.94	µg/L	4.475	26.42%
B 249.677†	545.4	0.0439	mg/L	0.00012	43.93	µg/L	0.115	0.26%
Ba 233.527†	9958.8	0.5818	mg/L	0.00331	581.8	µg/L	3.31	0.57%
Be 313.107†	37.8	0.0001	mg/L	0.00004	0.0530	µg/L	0.04281	80.75%
Ca 317.933†	1286529.2	31.93	mg/L	0.138	31930	µg/L	137.9	0.43%
Cd 214.440†	-9.7	-0.0003	mg/L	0.00011	-0.2665	µg/L	0.11488	43.11%
Co 228.616†	-6.6	-0.0011	mg/L	0.00042	-1.084	µg/L	0.4224	38.97%
Cr 205.560†	19.0	0.0033	mg/L	0.00021	3.299	µg/L	0.2091	6.34%
Cu 327.393†	30.6	-0.0015	mg/L	0.00032	-1.492	µg/L	0.3183	21.33%
Fe 238.204†	2851.5	0.1094	mg/L	0.00096	109.4	µg/L	0.96	0.88%
K 766.490†	9850.0	1.369	mg/L	0.0189	1369	µg/L	18.9	1.38%
Mg 279.077†	38103.3	10.29	mg/L	0.081	10290	µg/L	80.7	0.78%
Mn 257.610†	21011.2	0.1633	mg/L	0.00113	163.3	µg/L	1.13	0.69%
Mo 202.031†	-0.5	-0.0002	mg/L	0.00205	-0.1555	µg/L	2.05454	>999.9%
Na 589.592†	297911.4	16.92	mg/L	0.046	16920	µg/L	46.4	0.27%
Ni 231.604†	2.5	0.0004	mg/L	0.00124	0.3701	µg/L	1.24413	336.15%
Pb 220.353†	-31.8	-0.0213	mg/L	0.00333	-21.30	µg/L	3.329	15.62%
Sb 206.836†	3.6	0.0013	mg/L	0.00594	1.323	µg/L	5.9402	448.84%
Se 196.026†	10.6	0.0204	mg/L	0.00150	20.45	µg/L	1.505	7.36%
Sn 189.927†	25.2	0.0117	mg/L	0.00325	11.67	µg/L	3.251	27.85%
Ti 334.940†	19.7	0.0001	mg/L	0.00006	0.1240	µg/L	0.06236	50.29%

Tl 190.801†	10.8	0.0976	mg/L	0.00253	97.64	µg/L	2.533	2.59%
V 292.402†	9.3	0.0003	mg/L	0.00007	0.2590	µg/L	0.07160	27.64%
Zn 206.200†	17.9	0.0019	mg/L	0.00047	1.905	µg/L	0.4653	24.42%
Li 670.784†	5549.6	0.0287	mg/L	0.00039	28.68	µg/L	0.391	1.36%
Sr 421.552†	973250.7	0.8032	mg/L	0.00229	803.2	µg/L	2.29	0.28%

Sequence No.: 27
Sample ID: 1202003-24
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 2/10/2012 11:21:52 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-24

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	624537.7	100.7	%	0.34				0.34%
Ag 328.068†	-34.2						7.06	20.67%
Al 308.215†	27.0	-0.0261	mg/L	0.00099	-26.06	µg/L	0.989	3.79%
As 188.979†	4.3	0.0138	mg/L	0.00221	13.77	µg/L	2.212	16.06%
B 249.677†	900.9	0.0728	mg/L	0.00125	72.82	µg/L	1.253	1.72%
Ba 233.527†	2115.8	0.1236	mg/L	0.00032	123.6	µg/L	0.32	0.26%
Be 313.107†	-10.1	0.0000	mg/L	0.00004	-0.0133	µg/L	0.04283	321.65%
Ca 317.933†	1385841.7	34.40	mg/L	0.122	34400	µg/L	121.7	0.35%
Cd 214.440†	-11.7	-0.0003	mg/L	0.00012	-0.3149	µg/L	0.11803	37.48%
Co 228.616†	-2.9	-0.0005	mg/L	0.00027	-0.4656	µg/L	0.26806	57.58%
Cr 205.560†	21.3	0.0037	mg/L	0.00033	3.673	µg/L	0.3306	9.00%
Cu 327.393†	1.7	-0.0026	mg/L	0.00065	-2.562	µg/L	0.6544	25.55%
Fe 238.204†	47.0	0.0018	mg/L	0.00028	1.804	µg/L	0.2765	15.33%
K 766.490†	12945.8	1.799	mg/L	0.0073	1799	µg/L	7.3	0.41%
Mg 279.077†	28147.8	7.600	mg/L	0.0132	7600	µg/L	13.2	0.17%
Mn 257.610†	1381.1	0.0107	mg/L	0.00011	10.73	µg/L	0.107	1.00%
Mo 202.031†	-4.7	-0.0014	mg/L	0.00133	-1.423	µg/L	1.3290	93.39%
Na 589.592†	258488.8	14.68	mg/L	0.075	14680	µg/L	75.2	0.51%
Ni 231.604†	-2.0	-0.0003	mg/L	0.00036	-0.3007	µg/L	0.36019	119.80%
Pb 220.353†	-25.7	-0.0172	mg/L	0.00374	-17.22	µg/L	3.745	21.75%
Sb 206.836†	3.0	0.0017	mg/L	0.00785	1.704	µg/L	7.8530	460.76%
Se 196.026†	10.7	0.0207	mg/L	0.00743	20.71	µg/L	7.432	35.89%
Sn 189.927†	26.5	0.0110	mg/L	0.00512	10.95	µg/L	5.119	46.73%
Ti 334.940†	-12.9	-0.0001	mg/L	0.00020	-0.0808	µg/L	0.19734	244.33%
Tl 190.801†	11.9	0.1133	mg/L	0.02557	113.3	µg/L	25.57	22.57%
V 292.402†	12.4	0.0003	mg/L	0.00010	0.3462	µg/L	0.10318	29.80%
Zn 206.200†	5.6	0.0006	mg/L	0.00042	0.5905	µg/L	0.42446	71.88%
Li 670.784†	5309.8	0.0274	mg/L	0.00027	27.44	µg/L	0.272	0.99%
Sr 421.552†	1683196.9	1.389	mg/L	0.0079	1389	µg/L	7.9	0.57%

Sequence No.: 28
Sample ID: 1202003-25
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 2/10/2012 11:25:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-25

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	623556.1	100.5	%	0.62				0.62%
Ag 328.068†	-34.9						36.05	103.33%
Al 308.215†	-2.8	-0.0314	mg/L	0.00717	-31.40	µg/L	7.165	22.82%
As 188.979†	7.2	0.0208	mg/L	0.00466	20.83	µg/L	4.661	22.37%
B 249.677†	496.0	0.0399	mg/L	0.00123	39.93	µg/L	1.229	3.08%
Ba 233.527†	9329.7	0.5450	mg/L	0.00347	545.0	µg/L	3.47	0.64%
Be 313.107†	21.1	0.0000	mg/L	0.00002	0.0298	µg/L	0.02051	68.77%
Ca 317.933†	1284995.0	31.90	mg/L	0.174	31900	µg/L	173.8	0.54%
Cd 214.440†	-14.7	-0.0004	mg/L	0.00010	-0.3977	µg/L	0.09759	24.54%
Co 228.616†	-8.9	-0.0015	mg/L	0.00042	-1.453	µg/L	0.4249	29.24%
Cr 205.560†	16.1	0.0028	mg/L	0.00043	2.778	µg/L	0.4262	15.34%
Cu 327.393†	-41.9	-0.0037	mg/L	0.00034	-3.702	µg/L	0.3367	9.10%
Fe 238.204†	1203.5	0.0462	mg/L	0.00024	46.20	µg/L	0.237	0.51%
K 766.490†	9629.5	1.338	mg/L	0.0181	1338	µg/L	18.1	1.35%

Mg 279.077†	37175.6	10.04	mg/L	0.059	10040	µg/L	59.5	0.59%
Mn 257.610†	22141.5	0.1720	mg/L	0.00122	172.0	µg/L	1.22	0.71%
Mo 202.031†	1.4	0.0004	mg/L	0.00025	0.4412	µg/L	0.25432	57.65%
Na 589.592†	285844.9	16.23	mg/L	0.105	16230	µg/L	105.0	0.65%
Ni 231.604†	-1.1	-0.0002	mg/L	0.00087	-0.1656	µg/L	0.86800	524.04%
Pb 220.353†	-26.9	-0.0181	mg/L	0.00374	-18.07	µg/L	3.745	20.73%
Sb 206.836†	2.2	-0.0008	mg/L	0.00511	-0.7700	µg/L	5.11107	663.80%
Se 196.026†	8.4	0.0163	mg/L	0.00185	16.28	µg/L	1.849	11.36%
Sn 189.927†	25.0	0.0112	mg/L	0.00746	11.24	µg/L	7.458	66.36%
Ti 334.940†	-43.2	-0.0003	mg/L	0.00018	-0.2711	µg/L	0.17509	64.58%
Tl 190.801†	12.7	0.1177	mg/L	0.00999	117.7	µg/L	9.99	8.49%
V 292.402†	5.8	0.0002	mg/L	0.00009	0.1635	µg/L	0.09155	56.00%
Zn 206.200†	4.8	0.0005	mg/L	0.00047	0.5053	µg/L	0.47106	93.22%
Li 670.784†	5361.6	0.0277	mg/L	0.00016	27.70	µg/L	0.163	0.59%
Sr 421.552†	955499.9	0.7886	mg/L	0.00543	788.6	µg/L	5.43	0.69%

Sequence No.: 29
Sample ID: 1202003-26
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 2/10/2012 11:29:15 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-26

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	624645.4	100.7	%	0.40				0.40%
Ag 328.068†	-45.2						29.95	66.26%
Al 308.215†	4.5	-0.0296	mg/L	0.00550	-29.63	µg/L	5.495	18.55%
As 188.979†	4.9	0.0150	mg/L	0.00356	14.99	µg/L	3.559	23.74%
B 249.677†	777.4	0.0627	mg/L	0.00036	62.69	µg/L	0.358	0.57%
Ba 233.527†	8856.4	0.5174	mg/L	0.00454	517.4	µg/L	4.54	0.88%
Be 313.107†	34.0	0.0000	mg/L	0.00002	0.0478	µg/L	0.01952	40.82%
Ca 317.933†	1289928.3	32.02	mg/L	0.105	32020	µg/L	105.3	0.33%
Cd 214.440†	-13.2	-0.0004	mg/L	0.00009	-0.3588	µg/L	0.09085	25.32%
Co 228.616†	-0.3	0.0000	mg/L	0.00102	-0.0481	µg/L	1.02148	>999.9%
Cr 205.560†	20.3	0.0035	mg/L	0.00024	3.511	µg/L	0.2357	6.71%
Cu 327.393†	-31.6	-0.0034	mg/L	0.00139	-3.398	µg/L	1.3875	40.83%
Fe 238.204†	2582.8	0.0991	mg/L	0.00055	99.14	µg/L	0.554	0.56%
K 766.490†	11145.6	1.549	mg/L	0.0210	1549	µg/L	21.0	1.36%
Mg 279.077†	32015.3	8.644	mg/L	0.0586	8644	µg/L	58.6	0.68%
Mn 257.610†	20140.9	0.1565	mg/L	0.00125	156.5	µg/L	1.25	0.80%
Mo 202.031†	-3.4	-0.0010	mg/L	0.00282	-1.036	µg/L	2.8195	272.21%
Na 589.592†	454902.6	25.83	mg/L	0.104	25830	µg/L	103.9	0.40%
Ni 231.604†	-1.6	-0.0002	mg/L	0.00056	-0.2286	µg/L	0.55940	244.68%
Pb 220.353†	-18.2	-0.0122	mg/L	0.00923	-12.20	µg/L	9.227	75.61%
Sb 206.836†	2.9	0.0010	mg/L	0.00937	0.9698	µg/L	9.37021	966.22%
Se 196.026†	8.4	0.0162	mg/L	0.00655	16.18	µg/L	6.548	40.47%
Sn 189.927†	26.6	0.0146	mg/L	0.00471	14.64	µg/L	4.709	32.16%
Ti 334.940†	-40.7	-0.0003	mg/L	0.00009	-0.2554	µg/L	0.09080	35.56%
Tl 190.801†	12.4	0.1168	mg/L	0.00775	116.8	µg/L	7.75	6.63%
V 292.402†	4.0	0.0001	mg/L	0.00040	0.1128	µg/L	0.40396	358.19%
Zn 206.200†	-0.8	-0.0001	mg/L	0.00017	-0.0842	µg/L	0.16573	196.83%
Li 670.784†	7181.1	0.0371	mg/L	0.00017	37.11	µg/L	0.172	0.46%
Sr 421.552†	1055292.3	0.8710	mg/L	0.00301	871.0	µg/L	3.01	0.35%

Sequence No.: 30
Sample ID: BB20803-DUP4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 2/10/2012 11:32:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20803-DUP4

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	626963.0	101.1	%	0.39				0.38%
Ag 328.068†	-60.1						15.38	25.59%
Al 308.215†	-3.6	-0.0322	mg/L	0.00413	-32.18	µg/L	4.134	12.85%
As 188.979†	5.0	0.0151	mg/L	0.01366	15.06	µg/L	13.661	90.69%

B 249.677†	780.4	0.0629	mg/L	0.00024	62.93	µg/L	0.239	0.38%
Ba 233.527†	8955.9	0.5232	mg/L	0.00311	523.2	µg/L	3.11	0.59%
Be 313.107†	13.0	0.0000	mg/L	0.00005	0.0187	µg/L	0.05464	291.42%
Ca 317.933†	1308492.0	32.48	mg/L	0.163	32480	µg/L	163.4	0.50%
Cd 214.440†	-8.0	-0.0002	mg/L	0.00033	-0.2202	µg/L	0.33144	150.49%
Co 228.616†	-10.1	-0.0016	mg/L	0.00119	-1.644	µg/L	1.1940	72.64%
Cr 205.560†	20.7	0.0036	mg/L	0.00083	3.584	µg/L	0.8259	23.05%
Cu 327.393†	-44.9	-0.0038	mg/L	0.00094	-3.837	µg/L	0.9392	24.48%
Fe 238.204†	2604.7	0.1000	mg/L	0.00077	99.98	µg/L	0.775	0.77%
K 766.490†	11267.3	1.566	mg/L	0.0085	1566	µg/L	8.5	0.54%
Mg 279.077†	32415.3	8.752	mg/L	0.0430	8752	µg/L	43.0	0.49%
Mn 257.610†	20357.4	0.1582	mg/L	0.00098	158.2	µg/L	0.98	0.62%
Mo 202.031†	-5.2	-0.0016	mg/L	0.00041	-1.601	µg/L	0.4123	25.75%
Na 589.592†	465159.5	26.41	mg/L	0.119	26410	µg/L	119.0	0.45%
Ni 231.604†	-3.1	-0.0004	mg/L	0.00064	-0.4499	µg/L	0.63573	141.31%
Pb 220.353†	-29.3	-0.0197	mg/L	0.00228	-19.66	µg/L	2.277	11.58%
Sb 206.836†	1.6	-0.0013	mg/L	0.00148	-1.277	µg/L	1.4758	115.56%
Se 196.026†	8.1	0.0156	mg/L	0.00893	15.63	µg/L	8.926	57.09%
Sn 189.927†	21.9	0.0034	mg/L	0.00392	3.363	µg/L	3.9180	116.51%
Ti 334.940†	-39.4	-0.0002	mg/L	0.00030	-0.2477	µg/L	0.30152	121.73%
Tl 190.801†	12.0	0.1119	mg/L	0.01532	111.9	µg/L	15.32	13.69%
V 292.402†	15.2	0.0004	mg/L	0.00025	0.4252	µg/L	0.24942	58.66%
Zn 206.200†	2.9	0.0003	mg/L	0.00020	0.3109	µg/L	0.19841	63.82%
Li 670.784†	7126.4	0.0368	mg/L	0.00025	36.82	µg/L	0.246	0.67%
Sr 421.552†	1078205.9	0.8899	mg/L	0.00334	889.9	µg/L	3.34	0.38%

Sequence No.: 31
Sample ID: 1202003-27
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 2/10/2012 11:36:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-27

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	622546.0	100.3	%	0.22				0.22%
Ag 328.068†	-6.6						55.27	836.53%
Al 308.215†	28.1	-0.0247	mg/L	0.00352	-24.72	µg/L	3.522	14.25%
As 188.979†	6.2	0.0180	mg/L	0.00328	18.04	µg/L	3.278	18.16%
B 249.677†	794.6	0.0641	mg/L	0.00056	64.07	µg/L	0.564	0.88%
Ba 233.527†	9164.8	0.5354	mg/L	0.00259	535.4	µg/L	2.59	0.48%
Be 313.107†	8.4	0.0000	mg/L	0.00008	0.0124	µg/L	0.08008	643.90%
Ca 317.933†	1341803.2	33.31	mg/L	0.103	33310	µg/L	102.8	0.31%
Cd 214.440†	-7.8	-0.0002	mg/L	0.00020	-0.2124	µg/L	0.20177	94.98%
Co 228.616†	-3.5	-0.0006	mg/L	0.00030	-0.5720	µg/L	0.30263	52.91%
Cr 205.560†	23.3	0.0040	mg/L	0.00104	4.021	µg/L	1.0414	25.90%
Cu 327.393†	-18.7	-0.0031	mg/L	0.00019	-3.100	µg/L	0.1931	6.23%
Fe 238.204†	1824.3	0.0700	mg/L	0.00057	70.02	µg/L	0.567	0.81%
K 766.490†	11514.1	1.600	mg/L	0.0066	1600	µg/L	6.6	0.41%
Mg 279.077†	33221.6	8.970	mg/L	0.0251	8970	µg/L	25.1	0.28%
Mn 257.610†	20830.9	0.1619	mg/L	0.00077	161.9	µg/L	0.77	0.48%
Mo 202.031†	-3.8	-0.0012	mg/L	0.00157	-1.169	µg/L	1.5675	134.12%
Na 589.592†	475451.7	27.00	mg/L	0.162	27000	µg/L	162.2	0.60%
Ni 231.604†	-4.1	-0.0006	mg/L	0.00104	-0.6050	µg/L	1.04328	172.44%
Pb 220.353†	-23.3	-0.0156	mg/L	0.00496	-15.65	µg/L	4.963	31.71%
Sb 206.836†	3.5	0.0018	mg/L	0.00587	1.758	µg/L	5.8663	333.62%
Se 196.026†	9.6	0.0185	mg/L	0.00496	18.50	µg/L	4.957	26.80%
Sn 189.927†	26.2	0.0119	mg/L	0.00021	11.89	µg/L	0.212	1.78%
Ti 334.940†	-21.1	-0.0001	mg/L	0.00037	-0.1327	µg/L	0.37316	281.22%
Tl 190.801†	10.8	0.0996	mg/L	0.03239	99.60	µg/L	32.388	32.52%
V 292.402†	15.5	0.0004	mg/L	0.00012	0.4343	µg/L	0.11978	27.58%
Zn 206.200†	-0.2	0.0000	mg/L	0.00013	-0.0198	µg/L	0.12523	633.98%
Li 670.784†	7370.9	0.0381	mg/L	0.00034	38.09	µg/L	0.340	0.89%
Sr 421.552†	1102340.1	0.9098	mg/L	0.00515	909.8	µg/L	5.15	0.57%

Sequence No.: 32
Sample ID: 1202003-28
Analyst:
Initial Sample Wt:

Autosampler Location: 34
Date Collected: 2/10/2012 11:40:18 AM
Data Type: Original
Initial Sample Vol:

Dilution: Sample Prep Vol:

Mean Data: 1202003-28

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	615813.8	99.26	%	0.675				0.68%
Ag 328.068†	-45.7						47.04	102.96%
Al 308.215†	1.9	-0.0337	mg/L	0.00829	-33.71	µg/L	8.292	24.60%
As 188.979†	6.0	0.0181	mg/L	0.00871	18.12	µg/L	8.713	48.08%
B 249.677†	790.9	0.0639	mg/L	0.00039	63.93	µg/L	0.390	0.61%
Ba 233.527†	2038.0	0.1191	mg/L	0.00065	119.1	µg/L	0.65	0.54%
Be 313.107†	2.1	0.0000	mg/L	0.00002	0.0034	µg/L	0.01827	539.80%
Ca 317.933†	1432885.5	35.57	mg/L	0.206	35570	µg/L	205.9	0.58%
Cd 214.440†	-6.1	-0.0002	mg/L	0.00017	-0.1651	µg/L	0.17099	103.59%
Co 228.616†	1.2	0.0002	mg/L	0.00057	0.1964	µg/L	0.56814	289.33%
Cr 205.560†	13.1	0.0023	mg/L	0.00071	2.264	µg/L	0.7067	31.22%
Cu 327.393†	3.6	-0.0026	mg/L	0.00053	-2.592	µg/L	0.5274	20.35%
Fe 238.204†	43.1	0.0017	mg/L	0.00049	1.655	µg/L	0.4928	29.77%
K 766.490†	12710.2	1.766	mg/L	0.0142	1766	µg/L	14.2	0.80%
Mg 279.077†	29744.3	8.031	mg/L	0.0812	8031	µg/L	81.2	1.01%
Mn 257.610†	1072.9	0.0083	mg/L	0.00012	8.337	µg/L	0.1174	1.41%
Mo 202.031†	0.4	0.0001	mg/L	0.00171	0.1278	µg/L	1.70735	>999.9%
Na 589.592†	253764.1	14.41	mg/L	0.043	14410	µg/L	43.3	0.30%
Ni 231.604†	-3.5	-0.0005	mg/L	0.00035	-0.5152	µg/L	0.34763	67.47%
Pb 220.353†	-30.6	-0.0206	mg/L	0.00315	-20.55	µg/L	3.146	15.31%
Sb 206.836†	1.7	-0.0006	mg/L	0.00377	-0.5983	µg/L	3.77459	630.86%
Se 196.026†	11.6	0.0223	mg/L	0.00767	22.33	µg/L	7.667	34.33%
Sn 189.927†	26.7	0.0098	mg/L	0.00447	9.813	µg/L	4.4670	45.52%
Ti 334.940†	-26.2	-0.0002	mg/L	0.00009	-0.1645	µg/L	0.08946	54.38%
Tl 190.801†	14.5	0.1396	mg/L	0.01317	139.6	µg/L	13.17	9.43%
V 292.402†	22.8	0.0006	mg/L	0.00035	0.6385	µg/L	0.34638	54.25%
Zn 206.200†	5.4	0.0006	mg/L	0.00029	0.5785	µg/L	0.28603	49.44%
Li 670.784†	4921.2	0.0254	mg/L	0.00043	25.43	µg/L	0.432	1.70%
Sr 421.552†	1607431.7	1.327	mg/L	0.0028	1327	µg/L	2.8	0.21%

Sequence No.: 33 Autosampler Location: 35
Sample ID: BB20803-MS4 Date Collected: 2/10/2012 11:44:05 AM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: BB20803-MS4

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	612183.2	98.67	%	0.199				0.20%
Ag 328.068†	2486.8						24.62	0.99%
Al 308.215†	7760.7	1.972	mg/L	0.0084	1972	µg/L	8.4	0.43%
As 188.979†	225.2	0.5419	mg/L	0.00556	541.9	µg/L	5.56	1.03%
B 249.677†	7061.5	0.5703	mg/L	0.00530	570.3	µg/L	5.30	0.93%
Ba 233.527†	36470.3	2.130	mg/L	0.0141	2130	µg/L	14.1	0.66%
Be 313.107†	37375.9	0.0519	mg/L	0.00046	51.92	µg/L	0.463	0.89%
Ca 317.933†	1815817.4	45.07	mg/L	0.127	45070	µg/L	126.8	0.28%
Cd 214.440†	1775.3	0.0479	mg/L	0.00036	47.94	µg/L	0.364	0.76%
Co 228.616†	3047.5	0.4974	mg/L	0.00277	497.4	µg/L	2.77	0.56%
Cr 205.560†	3013.4	0.5202	mg/L	0.00380	520.2	µg/L	3.80	0.73%
Cu 327.393†	16686.8	0.5063	mg/L	0.00464	506.3	µg/L	4.64	0.92%
Fe 238.204†	133583.3	5.127	mg/L	0.0298	5127	µg/L	29.8	0.58%
K 766.490†	156730.9	21.78	mg/L	0.072	21780	µg/L	71.9	0.33%
Mg 279.077†	66957.6	18.08	mg/L	0.091	18080	µg/L	90.6	0.50%
Mn 257.610†	67809.8	0.5269	mg/L	0.00326	526.9	µg/L	3.26	0.62%
Mo 202.031†	1719.5	0.5259	mg/L	0.00043	525.9	µg/L	0.43	0.08%
Na 589.592†	429129.2	24.37	mg/L	0.104	24370	µg/L	104.5	0.43%
Ni 231.604†	3477.3	0.5103	mg/L	0.00184	510.3	µg/L	1.84	0.36%
Pb 220.353†	694.3	0.4651	mg/L	0.00471	465.1	µg/L	4.71	1.01%
Sb 206.836†	355.0	0.5451	mg/L	0.00570	545.1	µg/L	5.70	1.04%
Se 196.026†	273.2	0.5277	mg/L	0.00941	527.7	µg/L	9.41	1.78%
Sn 189.927†	265.6	0.5303	mg/L	0.01179	530.3	µg/L	11.79	2.22%
Ti 334.940†	82885.7	0.5205	mg/L	0.00424	520.5	µg/L	4.24	0.81%
Tl 190.801†	61.5	0.6030	mg/L	0.03199	603.0	µg/L	31.99	5.31%

V 292.402†	18024.7	0.5046 mg/L	0.00576	504.6 µg/L	5.76	1.14%
Zn 206.200†	4816.1	0.5135 mg/L	0.00287	513.5 µg/L	2.87	0.56%
Li 670.784†	100642.6	0.5200 mg/L	0.00222	520.0 µg/L	2.22	0.43%
Sr 421.552†	2185991.1	1.804 mg/L	0.0074	1804 µg/L	7.4	0.41%

Sequence No.: 34
Sample ID: IBL
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/10/2012 11:47:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: IBL

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	614177.8	98.99	%	0.805				0.81%
Ag 328.068†	44.8						21.52	48.03%
Unable to evaluate QC.								
Al 308.215†	3.0	0.0008	mg/L	0.00507	0.7864	µg/L	5.07013	644.74%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	0.8	0.0018	mg/L	0.00285	1.815	µg/L	2.8540	157.22%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	57.9	0.0047	mg/L	0.00096	4.683	µg/L	0.9641	20.59%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	1.0	0.0001	mg/L	0.00011	0.0560	µg/L	0.11220	200.40%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	2.7	0.0000	mg/L	0.00002	0.0036	µg/L	0.02137	587.77%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	209.2	0.0052	mg/L	0.00229	5.193	µg/L	2.2943	44.18%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 214.440†	-3.5	-0.0001	mg/L	0.00023	-0.0942	µg/L	0.23295	247.38%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	-5.8	-0.0010	mg/L	0.00030	-0.9500	µg/L	0.29704	31.27%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	-3.8	-0.0007	mg/L	0.00048	-0.6562	µg/L	0.48219	73.48%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 327.393†	37.5	0.0011	mg/L	0.00053	1.144	µg/L	0.5338	46.65%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	24.6	0.0009	mg/L	0.00031	0.9428	µg/L	0.30690	32.55%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	326.3	0.0453	mg/L	0.00426	45.35	µg/L	4.263	9.40%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	-3.3	-0.0009	mg/L	0.00033	-0.8888	µg/L	0.32698	36.79%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-6.6	-0.0001	mg/L	0.00004	-0.0511	µg/L	0.03745	73.32%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-3.4	-0.0010	mg/L	0.00136	-1.029	µg/L	1.3600	132.17%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	643.1	0.0365	mg/L	0.00938	36.51	µg/L	9.380	25.69%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	3.7	0.0005	mg/L	0.00055	0.5475	µg/L	0.55192	100.81%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-1.5	-0.0010	mg/L	0.00447	-1.023	µg/L	4.4673	436.80%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-2.7	-0.0043	mg/L	0.00265	-4.324	µg/L	2.6464	61.21%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	5.2	0.0100	mg/L	0.00247	10.05	µg/L	2.469	24.57%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	0.6	0.0014	mg/L	0.00351	1.417	µg/L	3.5063	247.53%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	-5.4	0.0000	mg/L	0.00014	-0.0340	µg/L	0.14245	418.84%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	0.3	0.0032	mg/L	0.00175	3.247	µg/L	1.7462	53.78%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	4.9	0.0001	mg/L	0.00040	0.1358	µg/L	0.39662	292.00%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	7.5	0.0008	mg/L	0.00030	0.8042	µg/L	0.29901	37.18%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Li 670.784†	107.6	0.0006	mg/L	0.00015	0.5560	µg/L	0.15268	27.46%
QC value within limits for Li 670.784 Recovery = Not calculated								
Sr 421.552†	229.0	0.0002	mg/L	0.00009	0.1890	µg/L	0.08558	45.28%

QC value within limits for Sr 421.552 Recovery = Not calculated
All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 35
Sample ID: CCV@A/B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/10/2012 11:51:35 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV@A/B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	608002.7	98.00	%	1.014				1.03%
Ag 328.068†	-319.8						26.18	8.18%
Al 308.215†	38289.1	9.920	mg/L	0.0957	9920	µg/L	95.7	0.96%
QC value within limits for Al 308.215 Recovery = 99.20%								
As 188.979†	2149.2	5.059	mg/L	0.0131	5059	µg/L	13.1	0.26%
QC value within limits for As 188.979 Recovery = 101.18%								
B 249.677†	30800.5	2.485	mg/L	0.0192	2485	µg/L	19.2	0.77%
QC value within limits for B 249.677 Recovery = 99.39%								
Ba 233.527†	42176.5	2.464	mg/L	0.0221	2464	µg/L	22.1	0.90%
QC value within limits for Ba 233.527 Recovery = 98.55%								
Be 313.107†	1840575.7	2.553	mg/L	0.0322	2553	µg/L	32.2	1.26%
QC value within limits for Be 313.107 Recovery = 102.10%								
Ca 317.933†	1031513.4	25.60	mg/L	0.324	25600	µg/L	323.9	1.27%
QC value within limits for Ca 317.933 Recovery = 102.42%								
Cd 214.440†	90419.2	2.449	mg/L	0.0211	2449	µg/L	21.1	0.86%
QC value within limits for Cd 214.440 Recovery = 97.97%								
Co 228.616†	15152.4	2.473	mg/L	0.0224	2473	µg/L	22.4	0.90%
QC value within limits for Co 228.616 Recovery = 98.93%								
Cr 205.560†	29547.6	5.095	mg/L	0.0476	5095	µg/L	47.6	0.93%
QC value within limits for Cr 205.560 Recovery = 101.90%								
Cu 327.393†	164746.5	5.030	mg/L	0.0514	5030	µg/L	51.4	1.02%
QC value within limits for Cu 327.393 Recovery = 100.60%								
Fe 238.204†	267572.6	10.27	mg/L	0.132	10270	µg/L	132.1	1.29%
QC value within limits for Fe 238.204 Recovery = 102.70%								
K 766.490†	179994.4	25.02	mg/L	0.289	25020	µg/L	289.1	1.16%
QC value within limits for K 766.490 Recovery = 100.06%								
Mg 279.077†	93591.2	25.27	mg/L	0.251	25270	µg/L	251.2	0.99%
QC value within limits for Mg 279.077 Recovery = 101.08%								
Mn 257.610†	661056.8	5.137	mg/L	0.0643	5137	µg/L	64.3	1.25%
QC value within limits for Mn 257.610 Recovery = 102.73%								
Mo 202.031†	1674.6	0.5122	mg/L	0.00516	512.2	µg/L	5.16	1.01%
QC value within limits for Mo 202.031 Recovery = 102.44%								
Na 589.592†	453726.3	25.76	mg/L	0.287	25760	µg/L	286.6	1.11%
QC value within limits for Na 589.592 Recovery = 103.05%								
Ni 231.604†	35004.0	5.137	mg/L	0.0516	5137	µg/L	51.6	1.00%
QC value within limits for Ni 231.604 Recovery = 102.74%								
Pb 220.353†	3662.7	2.450	mg/L	0.0142	2450	µg/L	14.2	0.58%
QC value within limits for Pb 220.353 Recovery = 98.00%								
Sb 206.836†	1666.2	2.539	mg/L	0.0108	2539	µg/L	10.8	0.42%
QC value within limits for Sb 206.836 Recovery = 101.57%								
Se 196.026†	1333.9	2.577	mg/L	0.0336	2577	µg/L	33.6	1.30%
QC value within limits for Se 196.026 Recovery = 103.08%								
Sn 189.927†	1146.1	2.524	mg/L	0.0154	2524	µg/L	15.4	0.61%
QC value within limits for Sn 189.927 Recovery = 100.98%								
Ti 334.940†	80013.9	0.5025	mg/L	0.00492	502.5	µg/L	4.92	0.98%
QC value within limits for Ti 334.940 Recovery = 100.49%								
Tl 190.801†	247.9	2.521	mg/L	0.0479	2521	µg/L	47.9	1.90%
QC value within limits for Tl 190.801 Recovery = 100.84%								
V 292.402†	44687.8	1.251	mg/L	0.0111	1251	µg/L	11.1	0.89%
QC value within limits for V 292.402 Recovery = 100.09%								
Zn 206.200†	95912.1	10.23	mg/L	0.098	10230	µg/L	97.8	0.96%
QC value within limits for Zn 206.200 Recovery = 102.33%								
Li 670.784†	477590.7	2.468	mg/L	0.0311	2468	µg/L	31.1	1.26%
QC value within limits for Li 670.784 Recovery = 98.71%								
Sr 421.552†	3079654.2	2.542	mg/L	0.0086	2542	µg/L	8.6	0.34%
QC value within limits for Sr 421.552 Recovery = 101.67%								

All analyte(s) passed QC.

Sequence No.: 36
Sample ID: 1202003-29
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 36
Date Collected: 2/10/2012 11:55:49 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-29

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 360.073	612210.7	98.68	%	0.245				0.25%
Ag 328.068†	-39.5						36.07	91.35%
Al 308.215†	39.2	-0.0217	mg/L	0.00048	-21.67	µg/L	0.476	2.20%
As 188.979†	2.9	0.0112	mg/L	0.00518	11.19	µg/L	5.177	46.27%
B 249.677†	982.9	0.0795	mg/L	0.00341	79.46	µg/L	3.408	4.29%
Ba 233.527†	8761.1	0.5118	mg/L	0.00102	511.8	µg/L	1.02	0.20%
Be 313.107†	173.1	0.0002	mg/L	0.00012	0.2407	µg/L	0.11520	47.86%
Ca 317.933†	1334361.4	33.12	mg/L	0.059	33120	µg/L	59.5	0.18%
Cd 214.440†	-2.4	-0.0001	mg/L	0.00006	-0.0632	µg/L	0.06201	98.18%
Co 228.616†	7.7	0.0013	mg/L	0.00069	1.252	µg/L	0.6895	55.07%
Cr 205.560†	22.8	0.0039	mg/L	0.00067	3.927	µg/L	0.6690	17.03%
Cu 327.393†	194.8	0.0034	mg/L	0.00127	3.435	µg/L	1.2722	37.03%
Fe 238.204†	60.5	0.0023	mg/L	0.00021	2.323	µg/L	0.2117	9.11%
K 766.490†	11831.4	1.644	mg/L	0.0024	1644	µg/L	2.4	0.15%
Mg 279.077†	33072.5	8.929	mg/L	0.0258	8929	µg/L	25.8	0.29%
Mn 257.610†	148.9	0.0012	mg/L	0.00015	1.157	µg/L	0.1526	13.19%
Mo 202.031†	-2.5	-0.0008	mg/L	0.00030	-0.7529	µg/L	0.30112	40.00%
Na 589.592†	462019.4	26.23	mg/L	0.067	26230	µg/L	66.9	0.26%
Ni 231.604†	-0.4	-0.0001	mg/L	0.00021	-0.0626	µg/L	0.20848	333.26%
Pb 220.353†	-22.6	-0.0151	mg/L	0.00513	-15.15	µg/L	5.133	33.89%
Sb 206.836†	12.6	0.0165	mg/L	0.00442	16.54	µg/L	4.420	26.73%
Se 196.026†	13.9	0.0268	mg/L	0.01149	26.80	µg/L	11.492	42.88%
Sn 189.927†	27.6	0.0153	mg/L	0.00811	15.33	µg/L	8.109	52.88%
Ti 334.940†	-19.8	-0.0001	mg/L	0.00003	-0.1242	µg/L	0.02862	23.04%
Tl 190.801†	12.2	0.1139	mg/L	0.00728	113.9	µg/L	7.28	6.39%
V 292.402†	17.6	0.0005	mg/L	0.00027	0.4931	µg/L	0.26975	54.71%
Zn 206.200†	59.5	0.0063	mg/L	0.00052	6.347	µg/L	0.5168	8.14%
Li 670.784†	7412.1	0.0383	mg/L	0.00012	38.30	µg/L	0.117	0.31%
Sr 421.552†	1088356.0	0.8982	mg/L	0.00281	898.2	µg/L	2.81	0.31%

Sequence No.: 37
Sample ID: 1202003-30
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 2/10/2012 11:59:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-30

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 360.073	629925.5	101.5	%	0.29				0.28%
Ag 328.068†	-0.6						52.96	>999.9%
Al 308.215†	-1.0	-0.0018	mg/L	0.00549	-1.768	µg/L	5.4871	310.32%
As 188.979†	1.2	0.0031	mg/L	0.00669	3.052	µg/L	6.6911	219.23%
B 249.677†	540.8	0.0437	mg/L	0.00035	43.72	µg/L	0.347	0.79%
Ba 233.527†	322.0	0.0188	mg/L	0.00047	18.81	µg/L	0.475	2.52%
Be 313.107†	35.6	0.0000	mg/L	0.00005	0.0493	µg/L	0.04627	93.93%
Ca 317.933†	62992.2	1.564	mg/L	0.0054	1564	µg/L	5.4	0.35%
Cd 214.440†	-6.7	-0.0002	mg/L	0.00012	-0.1783	µg/L	0.12002	67.30%
Co 228.616†	-13.8	-0.0023	mg/L	0.00066	-2.260	µg/L	0.6565	29.05%
Cr 205.560†	-1.3	-0.0002	mg/L	0.00080	-0.2210	µg/L	0.80253	363.09%
Cu 327.393†	340.2	0.0103	mg/L	0.00103	10.27	µg/L	1.035	10.07%
Fe 238.204†	53.3	0.0020	mg/L	0.00026	2.044	µg/L	0.2587	12.66%
K 766.490†	2143.3	0.2979	mg/L	0.00383	297.9	µg/L	3.83	1.28%
Mg 279.077†	2340.5	0.6319	mg/L	0.00309	631.9	µg/L	3.09	0.49%
Mn 257.610†	12.9	0.0001	mg/L	0.00007	0.1006	µg/L	0.07449	74.04%
Mo 202.031†	1.6	0.0005	mg/L	0.00157	0.4831	µg/L	1.57267	325.56%
Na 589.592†	1163072.4	66.04	mg/L	0.380	66040	µg/L	380.0	0.58%
Ni 231.604†	0.8	0.0001	mg/L	0.00115	0.1240	µg/L	1.15307	930.24%
Pb 220.353†	-0.0	0.0000	mg/L	0.00472	-0.0227	µg/L	4.71822	>999.9%

Sb 206.836†	-4.0	-0.0066	mg/L	0.00487	-6.626	µg/L	4.8738 73.56%
Se 196.026†	0.6	0.0011	mg/L	0.00881	1.101	µg/L	8.8144 800.71%
Sn 189.927†	-1.7	-0.0059	mg/L	0.00968	-5.929	µg/L	9.6797 163.26%
Ti 334.940†	-42.0	-0.0003	mg/L	0.00010	-0.2639	µg/L	0.10391 39.37%
Tl 190.801†	-0.5	-0.0064	mg/L	0.01138	-6.413	µg/L	11.3780 177.41%
V 292.402†	-4.9	-0.0001	mg/L	0.00023	-0.1383	µg/L	0.23194 167.69%
Zn 206.200†	19.4	0.0021	mg/L	0.00034	2.072	µg/L	0.3397 16.40%
Li 670.784†	5181.9	0.0268	mg/L	0.00002	26.78	µg/L	0.024 0.09%
Sr 421.552†	39735.4	0.0328	mg/L	0.00029	32.79	µg/L	0.292 0.89%

Sequence No.: 38
Sample ID: 1202003-31
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 2/10/2012 12:04:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-31

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	626315.4	100.9	%	0.34				0.34%
Ag 328.068†	9.0						48.19	537.78%
Al 308.215†	12.5	0.0032	mg/L	0.00270	3.241	µg/L	2.6964	83.19%
As 188.979†	0.6	0.0014	mg/L	0.00280	1.380	µg/L	2.7951	202.53%
B 249.677†	79.7	0.0064	mg/L	0.00045	6.445	µg/L	0.4493	6.97%
Ba 233.527†	0.3	0.0000	mg/L	0.00022	0.0162	µg/L	0.21852	>999.9%
Be 313.107†	35.3	0.0000	mg/L	0.00006	0.0489	µg/L	0.05732	117.24%
Ca 317.933†	31.8	0.0008	mg/L	0.00162	0.7903	µg/L	1.61811	204.74%
Cd 214.440†	-13.0	-0.0004	mg/L	0.00017	-0.3535	µg/L	0.17083	48.33%
Co 228.616†	-8.7	-0.0014	mg/L	0.00042	-1.428	µg/L	0.4235	29.66%
Cr 205.560†	-3.1	-0.0005	mg/L	0.00071	-0.5270	µg/L	0.71278	135.26%
Cu 327.393†	-3.3	-0.0001	mg/L	0.00128	-0.1001	µg/L	1.28448	>999.9%
Fe 238.204†	33.9	0.0013	mg/L	0.00047	1.303	µg/L	0.4728	36.28%
K 766.490†	184.2	0.0256	mg/L	0.00379	25.60	µg/L	3.789	14.80%
Mg 279.077†	14.6	0.0039	mg/L	0.00069	3.949	µg/L	0.6940	17.57%
Mn 257.610†	-42.0	-0.0003	mg/L	0.00006	-0.3267	µg/L	0.05957	18.23%
Mo 202.031†	-2.8	-0.0009	mg/L	0.00151	-0.8522	µg/L	1.50984	177.16%
Na 589.592†	1122.3	0.0637	mg/L	0.00453	63.72	µg/L	4.533	7.11%
Ni 231.604†	-0.2	0.0000	mg/L	0.00017	-0.0335	µg/L	0.16575	494.33%
Pb 220.353†	-3.8	-0.0026	mg/L	0.00651	-2.578	µg/L	6.5130	252.62%
Sb 206.836†	-8.1	-0.0129	mg/L	0.00565	-12.90	µg/L	5.651	43.79%
Se 196.026†	3.8	0.0074	mg/L	0.00410	7.399	µg/L	4.0999	55.41%
Sn 189.927†	-1.1	-0.0025	mg/L	0.00406	-2.508	µg/L	4.0625	161.96%
Ti 334.940†	-30.1	-0.0002	mg/L	0.00019	-0.1892	µg/L	0.19206	101.49%
Tl 190.801†	0.9	0.0099	mg/L	0.02023	9.937	µg/L	20.2289	203.56%
V 292.402†	-3.8	-0.0001	mg/L	0.00032	-0.1053	µg/L	0.31572	299.70%
Zn 206.200†	-2.0	-0.0002	mg/L	0.00051	-0.2138	µg/L	0.51132	239.15%
Li 670.784†	-185.4	-0.0010	mg/L	0.00045	-0.9580	µg/L	0.45245	47.23%
Sr 421.552†	22.5	0.0000	mg/L	0.00002	0.0186	µg/L	0.01810	97.30%

Sequence No.: 39
Sample ID: IBL
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/10/2012 12:08:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: IBL

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	608934.2	98.15	%	0.898				0.91%
Ag 328.068†	19.5						46.91	240.56%
Unable to evaluate QC.								
Al 308.215†	26.6	0.0069	mg/L	0.00391	6.918	µg/L	3.9079	56.49%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-0.8	-0.0019	mg/L	0.00866	-1.900	µg/L	8.6622	456.02%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	49.3	0.0040	mg/L	0.00030	3.986	µg/L	0.2962	7.43%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-0.7	0.0000	mg/L	0.00009	-0.0424	µg/L	0.08734	205.99%

QC value within limits for Ba 233.527 Recovery = Not calculated

Be 313.107†	-21.7	0.0000 mg/L	0.00004	-0.0303 µg/L	0.04289	141.72%

QC value within limits for Be 313.107 Recovery = Not calculated

Ca 317.933†	35.5	0.0009 mg/L	0.00210	0.8824 µg/L	2.09743	237.70%

QC value within limits for Ca 317.933 Recovery = Not calculated

Cd 214.440†	2.0	0.0001 mg/L	0.00033	0.0522 µg/L	0.32526	623.18%

QC value within limits for Cd 214.440 Recovery = Not calculated

Co 228.616†	-1.6	-0.0003 mg/L	0.00084	-0.2578 µg/L	0.84281	326.88%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 205.560†	-3.3	-0.0006 mg/L	0.00017	-0.5689 µg/L	0.16611	29.20%

QC value within limits for Cr 205.560 Recovery = Not calculated

Cu 327.393†	16.7	0.0005 mg/L	0.00084	0.5112 µg/L	0.83663	163.67%

QC value within limits for Cu 327.393 Recovery = Not calculated

Fe 238.204†	19.0	0.0007 mg/L	0.00070	0.7286 µg/L	0.70121	96.24%

QC value within limits for Fe 238.204 Recovery = Not calculated

K 766.490†	215.8	0.0300 mg/L	0.00626	30.00 µg/L	6.256	20.86%

QC value within limits for K 766.490 Recovery = Not calculated

Mg 279.077†	-3.5	-0.0009 mg/L	0.00379	-0.9417 µg/L	3.79440	402.93%

QC value within limits for Mg 279.077 Recovery = Not calculated

Mn 257.610†	12.6	0.0001 mg/L	0.00009	0.0978 µg/L	0.08907	91.05%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031†	-1.6	-0.0005 mg/L	0.00083	-0.4759 µg/L	0.83087	174.60%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592†	477.1	0.0271 mg/L	0.00187	27.09 µg/L	1.867	6.89%

QC value within limits for Na 589.592 Recovery = Not calculated

Ni 231.604†	8.8	0.0013 mg/L	0.00163	1.286 µg/L	1.6327	126.99%

QC value within limits for Ni 231.604 Recovery = Not calculated

Pb 220.353†	2.5	0.0017 mg/L	0.00556	1.671 µg/L	5.5573	332.50%

QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.836†	2.0	0.0032 mg/L	0.00229	3.244 µg/L	2.2857	70.47%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026†	2.7	0.0052 mg/L	0.00324	5.248 µg/L	3.2358	61.65%

QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.927†	-0.4	-0.0009 mg/L	0.00828	-0.9205 µg/L	8.27671	899.18%

QC value within limits for Sn 189.927 Recovery = Not calculated

Ti 334.940†	-27.5	-0.0002 mg/L	0.00012	-0.1727 µg/L	0.11998	69.47%

QC value within limits for Ti 334.940 Recovery = Not calculated

Tl 190.801†	2.1	0.0223 mg/L	0.00746	22.34 µg/L	7.457	33.37%

QC value within limits for Tl 190.801 Recovery = Not calculated

V 292.402†	1.0	0.0000 mg/L	0.00029	0.0269 µg/L	0.28583	>999.9%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 206.200†	13.7	0.0015 mg/L	0.00030	1.463 µg/L	0.3015	20.61%

QC value within limits for Zn 206.200 Recovery = Not calculated

Li 670.784†	110.1	0.0006 mg/L	0.00009	0.5688 µg/L	0.09117	16.03%

QC value within limits for Li 670.784 Recovery = Not calculated

Sr 421.552†	19.1	0.0000 mg/L	0.00003	0.0158 µg/L	0.03015	191.31%

QC value within limits for Sr 421.552 Recovery = Not calculated

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 40
Sample ID: CCV@A/B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/10/2012 12:11:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV@A/B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	602826.7	97.16	%	0.238				0.25%
Ag 328.068†	-311.1						29.60	9.51%
Al 308.215†	39041.2	10.11	mg/L	0.025	10110	µg/L	25.2	0.25%
QC value within limits for Al 308.215 Recovery = 101.15%								
As 188.979†	2169.1	5.106	mg/L	0.0290	5106	µg/L	29.0	0.57%
QC value within limits for As 188.979 Recovery = 102.12%								
B 249.677†	31452.2	2.537	mg/L	0.0104	2537	µg/L	10.4	0.41%
QC value within limits for B 249.677 Recovery = 101.50%								
Ba 233.527†	42893.3	2.506	mg/L	0.0018	2506	µg/L	1.8	0.07%
QC value within limits for Ba 233.527 Recovery = 100.23%								
Be 313.107†	1857357.4	2.576	mg/L	0.0058	2576	µg/L	5.8	0.23%
QC value within limits for Be 313.107 Recovery = 103.03%								

Ca 317.933†	1042583.1	25.88 mg/L	0.048	25880 µg/L	48.4	0.19%
QC value within limits for Ca 317.933 Recovery = 103.52%						
Cd 214.440†	91630.7	2.482 mg/L	0.0067	2482 µg/L	6.7	0.27%
QC value within limits for Cd 214.440 Recovery = 99.29%						
Co 228.616†	15379.7	2.510 mg/L	0.0025	2510 µg/L	2.5	0.10%
QC value within limits for Co 228.616 Recovery = 100.41%						
Cr 205.560†	30091.5	5.189 mg/L	0.0016	5189 µg/L	1.6	0.03%
QC value within limits for Cr 205.560 Recovery = 103.77%						
Cu 327.393†	168107.2	5.133 mg/L	0.0171	5133 µg/L	17.1	0.33%
QC value within limits for Cu 327.393 Recovery = 102.65%						
Fe 238.204†	270322.5	10.38 mg/L	0.027	10380 µg/L	26.5	0.26%
QC value within limits for Fe 238.204 Recovery = 103.76%						
K 766.490†	181862.4	25.28 mg/L	0.047	25280 µg/L	46.9	0.19%
QC value within limits for K 766.490 Recovery = 101.10%						
Mg 279.077†	95137.6	25.69 mg/L	0.020	25690 µg/L	20.2	0.08%
QC value within limits for Mg 279.077 Recovery = 102.75%						
Mn 257.610†	667850.3	5.189 mg/L	0.0107	5189 µg/L	10.7	0.21%
QC value within limits for Mn 257.610 Recovery = 103.79%						
Mo 202.031†	1684.5	0.5152 mg/L	0.00339	515.2 µg/L	3.39	0.66%
QC value within limits for Mo 202.031 Recovery = 103.04%						
Na 589.592†	457796.7	25.99 mg/L	0.059	25990 µg/L	59.2	0.23%
QC value within limits for Na 589.592 Recovery = 103.97%						
Ni 231.604†	35644.8	5.231 mg/L	0.0113	5231 µg/L	11.3	0.22%
QC value within limits for Ni 231.604 Recovery = 104.62%						
Pb 220.353†	3709.6	2.481 mg/L	0.0070	2481 µg/L	7.0	0.28%
QC value within limits for Pb 220.353 Recovery = 99.26%						
Sb 206.836†	1698.0	2.588 mg/L	0.0218	2588 µg/L	21.8	0.84%
QC value within limits for Sb 206.836 Recovery = 103.52%						
Se 196.026†	1349.5	2.607 mg/L	0.0168	2607 µg/L	16.8	0.64%
QC value within limits for Se 196.026 Recovery = 104.28%						
Sn 189.927†	1159.8	2.555 mg/L	0.0107	2555 µg/L	10.7	0.42%
QC value within limits for Sn 189.927 Recovery = 102.19%						
Ti 334.940†	81569.7	0.5122 mg/L	0.00134	512.2 µg/L	1.34	0.26%
QC value within limits for Ti 334.940 Recovery = 102.44%						
Tl 190.801†	253.9	2.584 mg/L	0.0361	2584 µg/L	36.1	1.40%
QC value within limits for Tl 190.801 Recovery = 103.34%						
V 292.402†	45581.8	1.276 mg/L	0.0038	1276 µg/L	3.8	0.30%
QC value within limits for V 292.402 Recovery = 102.09%						
Zn 206.200†	97193.7	10.37 mg/L	0.040	10370 µg/L	39.7	0.38%
QC value within limits for Zn 206.200 Recovery = 103.69%						
Li 670.784†	481955.4	2.490 mg/L	0.0068	2490 µg/L	6.8	0.27%
QC value within limits for Li 670.784 Recovery = 99.61%						
Sr 421.552†	3120228.7	2.575 mg/L	0.0083	2575 µg/L	8.3	0.32%
QC value within limits for Sr 421.552 Recovery = 103.01%						

All analyte(s) passed QC.

1202013-1-10

2-9

ICP-AES METALS Technical Review Checklist

(200.7, 6010) Hardness_____

For Internal Use Only

Site Name: Dimock WO#: 1202001 & 1202003

Analyst: J.R. Donsey Date given to Reviewer: 2/9/12

Matrix (circle): Solid / ~~Aqueous~~ / Other _____ SOP R3QA159-021511 / R3QA155-021511

(If TCLP is run: SOP R3QA135-021011)

Program (circle): Superfund / RCRA / Compliance NPDES or SDWA / Other: _____

1-10

The signature below indicates the following:

- This data meets the needs of the customer according to the request.
- The analysis was performed as per the SOP, or exceptions documented.
- All documentation needed to recreate the analyses has been reviewed.
- Data Review status set to Peer Reviewed in Element.

Peer Reviewer signature _____ Date accepted 2.13.12

If any data for this case is stored with another case file, give Site Name and WO#_____

Peer Reviewer Completes Section Below:

	YES	NO	N/A	Comments
General: Raw data is identified with sample ID's, site name, WO#, analyst name, date of analysis.	✓			
Quality Control:				
First CCV ±5% and RSD <3;	✓			
All other CCV ±10%, every 10 samples and end of run;	✓			
For Compliance samples (SDWA and NPDES): SCV ±5% (each time, including PTs)	✓			
All other samples SCV ±10%			✓	
LCV ±30%;	✓			
IBL < |Reporting limit|, analyzed with each CCV ;	✓			
BS (LCS) ±15%;	✓			
SRM (soils) within vendor acceptance limits;			✓	
BLK < |Reporting limit| (if >Reporting Limit **and** >1/10 of sample - must qualify)	✓			
MS [±30%] unless spike is <30% of sample value;	✓			
RPDs from DUP ≤20% aqueous & 35% soils;	✓			
Sample results < CAL or within documented linear range;	✓			

Interference Checks:

Spectral overlays or 2nd wavelength used or interfering elements not present above CAL — V

IFA recovery at ±20%; — J

Non-interfering elements ± | Reporting limit | or calculated range from 200.7; — U

Calculations/Report:

Calculations and transcriptions checked. — V

Element Draft Report reviewed. — J

Deviations and problems documented. — U

NOTE: When soils are being reported, the *sample qualifier* 'dry' or 'wet' must be entered so that it appears in the header of the Element report. This will signify that the data was report 'wet weight' or 'dry weight' as appropriate.

Additional Comments by Peer Reviewer:

Analyst Ensures that the Data Case File is Complete and Accurate:

- ✓ Bench sheet (TCLP prep log)
- ✓ IEC tables
- ✓ Instrument run log
- ✓ Standard/Reagent Prep log
- ✓ TV sheets
- ✓ Element Peer Review report
- ✓ Raw data
- ✓ Data status set to analyzed

Additional Comments by Analyst on data issues:

Use BS As Sch for B

DIM0216291 DIM0216696

On-Demand Data Checklist
(used in addition to routine TRC)
For Internal Use Only

Parameter: Dimock
Procedure/Method/Reference: 200.7

Site Name: Sa, Li, Sr & Ti WO#: 1202001 & 1202003
Analyst: JR Dorsey

The signature below indicates the following:
• The analysis was performed as per the On-Demand requirements below.

Peer Reviewer signature [signature] Date accepted 2-13-12

Peer Reviewer Completes Section Below:

This is a special request which falls outside our routine protocols. Therefore, these samples were analyzed and the quality control (QC) were evaluated based on the "On Demand" criteria. These protocols include all the QC checks as per routine analyses plus special verification of the performance of the analytical method at the reported quantitation limit/s. These protocols are specified in the EPA Region III OASQA Laboratory Quality Manual, current version.

Quality Control:	**YES**	**NO**	**N/A**	**Comments**
A written procedure or reference must be available for the method being performed and referenced in the narrative. If the method to be performed is unique, the procedures must be fully documented.	✓			
Calibration of the instrumentation or analytical procedure must be according to the method or procedure.	✓			
Calibration verified by analysis of second source standard (SCV, SRM), if available. Concentration must be in the range of the calibration. Results must be within the method, procedure, client or in-house limits.	✓			
Analysis of one method blank (BLK) with each batch. Ideally, the results should be less than the expected quantitation levels set by the method, procedure, or in-house requirements.	✓			
Analysis of one matrix spike (MS) with each batch. For samples or parameters which do not lend themselves to matrix spiking, a BS or SRM sample must be analyzed. Results of spikes must be within the method, procedure, client or in-house limits.	✓			
Analysis of one duplicate analyses (DUP) or a quality control sample such as an SRM or BS with each batch. If duplicate analyses is not possible, e.g, insufficient sample quantity, a quality control sample must be analyzed in duplicate, if available. Results of duplicate analyses must be				

within the method, procedure, client or in-house limits. ✓

At least one blank spike (BS) must be carried through the entire method and analyzed with each batch. The concentration of the BS should be at the quantitation level or at the level of the expected sample results, if known. Results of the BS must be within the method, procedure, client or in-house limits. –

Any additional quality control items, such as surrogates, internal standards, etc., which the referenced method or procedure requires should be analyzed. Results must be within the method or, procedure limits. U

The analyst must document the impact on the usability of the reported data by applying qualifier codes if applicable and including a summary in the case file. /

Additional Comments:

Use BS As Scv For SN

DIM0216291 DIM0216698

EPA Region 3 - OASQA - METALS - SAMPLE PREPARATION/TEMPERATURE LOG

BB20707 bch_metals.rpt

Project: DAS R33907
Work Order No: 1202003
Site Name: Dimock Residential Groundwater
Analysis: Total Metals by 200.7
Total Metals by 200.8
Matrix: Water

Location: Analyst
EPA #3 Shelf 2B
Client: OSWER - Emergency Response
Account#: 2012T03N303DC6A3TARS00
Method/SOP: EPA 200.7/R3QA159
EPA 200.8/R3QA116

Comments from WO:

Analyst: JR Dorsey	Solid samples are dried and prepared according to digestion SOP.	Certificate of Analysis Log#: 2
Sample Prep Date: 2/5/12	BS/MS spike Soln Bar Code: 12713 / 12714	HNO3 Bar Code: 11152 Vol. used 1 mL
DI Water Resistivity > 18 (MΩ-cm) (Y) / N	BS/MS ICP-MS Spike Units: (µL)	HCL Bar Code: 11148 Vol. used .5 mL
Hot Block1 Time/Temp start: 9:00 / 90 °C	BS/MS ICP Spike Units: (µL)	Reagent purity correct (Y) N
Hot Block1 Time/Temp stop: 2:00 / 95° C	Pipets Log# 11 Balance Log# 1	SRM ID — Bar Code —
Digestion SOP: R3-QA155		

Li spike
0.5 mL of 10,000 ppm BC# 11008 diluted to 100mL

.5mL - 200.7 added TV = 500 ug/l
.05mL - 200.8 " TV = 50 "

EPA Region 3 - OASQA - METALS - SAMPLE PREPARATION/TEMPERATURE LOG

BB20707 bch_metals.rpt

LabNumber	Cont ID	Sample Type	pH	Initial (mL)	Final (mL)	Spike1	Spike1 Amount µl	Spike2	Spike2 Amount µl	SourceID	ExtractionComments	Observations
1202003-01	A	SAM	<2	50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-02 PL 0.16.18	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-03	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-04	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-05	A D	RIN		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-06	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-07	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-08	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-09	A	RIN		50	50						71/71 Drinking Water (Total/Dissolved)	
1202003-10	A	SAM		50	50						71/71 Drinking Water (Total/Dissolved)	
BB20707-BLK1				50	50					-		
BB20707-BLK2				50	50					-		
BB20707-BS1				50	50	0600208	50	0600209	50	-		
BB20707-BS2				50	50	0600208	500	0600209	500	-		
BB20707-DUP1				50	50					1202003-01		
BB20707-DUP2				50	50					1202003-01		
BB20707-MS1				50	50	0600208	50	0600209	50	1202003-04		
BB20707-MS2				50	50	0600208	500	0600209	500	1202003-04		

RUN LOG FOR 3300DV OPTIMA JR DORSEY 02/09/12

Dimock JRDy 2/9/12

1202001 & 1202003

IBL
CALA
CALB
IBL
LCV LI/SR
LCV
CCV@A/B
SCV@LVM
IFA@1
IFA@2
IFA@3
BB20706-BLK2
BB20706-BS2
1202001-23
BB20706-DUP2
1202001-37
1202001-38
1202001-39
BB20706-MS2
1202001-40
1202001-41
IBL
CCV@A/B
1202001-42
BB20706-DUP4
1202001-43
1202001-44
BB20706-MS4
1202001-45
1202001-46
1202001-51
IBL
CCV@A/B
BB20706-BLK2
BB20706-BS2
1202001-23
BB20707-BLK2
BB20707-BS2
1202003-01
BB20707-DUP2
1202003-02
1202003-03
1202003-04
IBL
CCV@A/B
BB20707-MS2
1202003-05
1202003-06
1202003-07
1202003-08
1202003-09
1202003-10
IBL
CCV@A/B

EPA - OASQA - ICP Standard/Reagent Preparation

Perkin Elmer 3300 OPTIMA

Analyst: JR Dorsey Date: 2/9/12 Pipets Logbook # SNB11

Run Filename: DV120208 (all electronic files saved using Run Filename) SOP #: R3-QA159

SITE/WO#: Dimock 120200 1 120200 3 Reagent Purity checked ✓

SCV in 2% nitric / 2% HCl matrix (**made daily**): or alternate matrix of _____
(diluted with IBL)

* Stock Solution	Expiration Date	Stock Conc	Vendor	Bar Code	Stock Volume	Final Volume	Final Conc	Check if used
QC-7A	1-12	100 mg/L 1000 mg/L (K)	Spex	13852	0.5 ml	12.5 ml	see TV sheet	✓
QC-21	1-12	100 mg/L	Spex	13853	0.5ml	12.5 ml	see TV sheet	✓
QC-7A (Ag)	1-12	50 mg/L	Spex	13853	0.05ml	25 ml	0.100 mg/L	

* See Certificate of Analysis for analytes.

Internal Standard in 2% nitric matrix (made as needed...no expiration date applicable)

Stock Solution	Stock Conc	Vendor	Bar Code	Stock Volume	Nitric Volume	Final Volume	Final Conc
Yttrium	1000 mg/L	High Purity	4004	5 mL	10 mL	500 mL	10mg/L

Calibration Standards (CAL) and IBL in 2% nitric / 2% HCl matrix (2 mL acid per 100 mL solution) or alternate matrix of _____

	* Stock Soln and Conc	Vendor	Bar Code	Stock Volume	Final Volume	Final Conc	Date made/ Preparer	Check if used
IBL	na	na	na	na	1000 mL	na	made daily	√
CAL A	CAL STD A-R Solution A+B (see certificate)	High Purity	11004 11002	10 mL A 10 mL B	1000 ml	see TV sheet	3/11 jrd	
CAL B	CAL STD B: Solution A+B (see certificate)	High Purity	11010 11002	10 mL A 10 mL B	1000 ml	see TV sheet	10/11 jrd	
CAL AG	Silver 1000 mg/L	High Purity	11884	0.02 mL	100 ml	0.20 mg/L		
CAL BS								
CAL A	CAL STD A-R Solution A+B (see certificate)	High Purity	11004 11002	2.5 mL A 2.5 mL B	200 ml	see TV sheet	2/2/12 jrd	✓
	Li @ 10,000 ppm Sr @1000 ppm	High Purity High Purity	11008 11882	0.1ml 1.0 ml				
CAL B	CAL STD B: Solution A+B (see certificate)	High Purity	11010 11002	2.5 mL A 2.5 mL B	200 ml	see TV sheet	2/2/12 jrd	✓

* See Certificate of Analysis for analytes and initial concentrations.

EPA - OASQA - ICP Standard/Reagent Preparation
Perkin Elmer 3300 OPTIMA

Other QC standards in 2% nitric / 2% HCl matrix (2 mL acid per 100 mL solution) or alternate matrix of _____

	*Stock Soln and Concentration	Vendor	Bar Code	Stock Volume	Final Volume	Final Conc	Date made/ Preparer	Chec if use
LCV (10:1)	EPA-CRDL-RR (See certificate) + 1000 mg/L (Ag)	High Purity EM	5759 3355 (Ag)	0.5 mL 0.01mL	100 mL 100 mL	See below^ 0.1 mg/L	1/11 JRD	
^LCV made daily by diluting the LCV(10:1) solution by 10X using the IBL. See TV sheet for final concs.								
LCV (Ag)							JRD 2/9/12	
LCV	For Sr + Li dilute SCV			20X	TV=	200 mg/L		✓
IFA 1	10,000 mg/L Ca 10,000 mg/L Al 10,000 mg/L Ni	High Purity High Purity High Purity	10171 11887 5971	5 mL 5 mL 1 mL	200 mL	250 mg/L 250 mg/L 50 mg/L	1/2012 jrd	✓
IFA 2	10,000 mg/L Na 10,000 mg/L Mg 10,000 mg/L Fe	High Purity High Purity High Purity	11808 10172 11886	5 mL 5 mL 5 mL	200 mL	250 mg/L 250 mg/L 250 mg/L	6/11 rc	✓
IFA 3	10,000 mg/L Mn 10,000 mg/L Cu 10,000 mg/L Cr	High Purity High Purity High Purity	5974 5972 5973	1 mL 0.4 mL 1 mL	200 mL	50 mg/L 20 mg/L 50 mg/L	1/2012 jrd	✓

* See Certificate of Analysis for analytes and initial concentrations.

Check standards (made daily) Matrix will be the same as the Calibration Standards (CAL) and IBL (lcb)

CCV Solution ID	Prepared by diluting 1:1	Final Conc	Check if used
CCV AB	CAL A plus CAL B	see TV sheet	✓
CCV AG	CAL AG plus IBL	0.10 mg/L	
CCV BS	CAL BS plus IBL	2.5 mg/L	

Reagent Acid Stocks

	Vendor	Bar Code		Vendor	Bar Code
Nitric Acid	Fisher	11152	HCl Acid	Fisher	11148

Certificates of Analysis Logbook # _____ SNB 2 _____

Comments: _____

IEC File Name: JOE 2010

IEC File Last Saved: 1/5/2012 2:35:27 PM
Printed On: 2/9/2012 12:50:13 PM

Results Data Set Name: DV09818
Method Name: IEC IFA rechec
Results Library: C:\pe\Administrator\Results\Results.md

Interfering Analytes

	Analytes	Al 308.215	Ca 317.933	Cr 205.560	Cu 327.393
1	**Ag 328.068**	0.23	0	0	0.5
2	**Al 308.215**	n/a	0.961621	0	0
3	**As 188.979**	-0.1	0	-6	3
4	**B 249.677**	0	0	0	0
6	**Be 313.107**	0	0	-0.2	0
8	**Cd 214.440**	0.18	0	-0.5	-0.3
10	**Cr 205.560**	0	0	n/a	0
11	**Cu 327.393**	0	0.0759573	0	n/a
19	**Pb 220.353**	0.1	0	0.4	0
20	**Sb 206.836**	0.9	0	15	0
22	**Sn 189.927**	0	1.4	0	0
24	**Tl 190.801**	3.2	0	0	0
27	**Zn 206.200**	0.1	0	0.7	0

IEC File Last Saved: 1/5/2012 2:35:27 PM
Printed On: 2/9/2012 12:50:13 PM

Results Data Set Name: DV09818
Method Name: IEC IFA rechec
Results Library: C:\pe\Administrator\Results\Results.md

Interfering Analytes

	Analytes	Fe 238.204	Mg 279.077	Mn 257.610	Ni 231.604
1	**Ag 328.068**	-0.55	0	0	-0.1
2	**Al 308.215**	0	0	0	0
3	**As 188.979**	0.2	-0.5	6.2	0
4	**B 249.677**	0	0	1	0
6	**Be 313.107**	0	0	0	0
8	**Cd 214.440**	0.04	0	0	-0.1
10	**Cr 205.560**	-0.15	0	0	0.5
11	**Cu 327.393**	0	0	0	0
19	**Pb 220.353**	-0.05	0	0	0.8
20	**Sb 206.836**	0.6	0.4	1	2.4
22	**Sn 189.927**	0	0	0	0
24	**Tl 190.801**	2	1.6	0	0
27	**Zn 206.200**	0	0	0	0

IEC File Last Saved: 1/5/2012 2:35:27 PM
Printed On: 2/9/2012 12:50:13 PM

Results Data Set Name: DV09818I
Method Name: IEC IFA rechec
Results Library: C:\pe\Administrator\Results\Results.md

Interfering Analytes

	Analytes	Tl 334.940
1	**Ag 328.068**	0
2	**Al 308.215**	0
3	**As 188.979**	-10
4	**B 249.677**	0
6	**Be 313.107**	0
8	**Cd 214.440**	0
10	**Cr 205.560**	0
11	**Cu 327.393**	0
19	**Pb 220.353**	0
20	**Sb 206.836**	-0.8
22	**Sn 189.927**	0
24	**Tl 190.801**	0
27	**Zn 206.200**	0

OASQA TRUE VALUES for ICP Standards and QC

CAL stock	ICP	CCV ±5% (ppm)	SCV ±5%/±10% (ppm) (First time ±5%, all others ±10%)	LCV ±30% (ppm)	BS/MS ±15/30% (ppm) (based on 0.5ml stock to 50 mL)	IFA1 ± 20% (ppm)	IFA2 ± 20% (ppm)	IFA2 ±20% (ppm)
AG	**Ag**	0.100	0.100	0.010	0.050			
B	**Al**	10.00	4.00	0.200	2.00	250 ((ag),as,cd, pb,sb,tl,zn)		
B	**As**	5.00	4.00	0.200	0.500			
A	**Ba**	2.50	4.00	0.200	2.00			
A	**Be**	2.50	4.00	0.005	0.050			
A	**B**	2.50	4.00	0.200	0.500			
B	**Ca**	25.00	4.00	0.500	10.00	250(al,b,cu,sn)		
A	**Cd**	2.50	4.00	0.005	0.050			
A	**Co**	2.50	4.00	0.050	0.500			
B	**Cr**	5.00	4.00	0.010	0.500			50 (as,be,cd,sb,zn)
B	**Cu**	5.00	4.00	0.025	0.500			20 (ag,pb,(cd))
B	**Fe**	10.00	4.00	0.100	5.00		250(as,ag,cd,cr,ni, pb,sb,tl,zn)	
B	**K**	25.00	40.00	2.000	20.00			
	Li	2.50*	4.00	0.200*	0.500			
B	**Mg**	25.00	4.00	0.500	10.00		250	
B	**Mn**	5.00	4.00	0.015	0.500			50 (b)
A	**Mo**	0.500	4.00	0.200	0.500			
B	**Na**	25.00	4.00	1.000	10.00		250	
B	**Ni**	5.00	4.00	0.040	0.500	50 (cd,cr,pb,sb)		
A	**Pb**	2.50	4.00	0.050	0.500			
A	**Sb**	2.50	4.00	0.060	0.500			
A	**Se**	2.50	4.00	0.200	0.500			
A	**Sn**	2.50	1.00*	0.200	0.500			
	Sr	2.50*	4.00	0.200*	0.500			
A	**Ti**	0.500	4.00	0.200	0.500			
A	**Tl**	2.50	4.00	0.200	0.500			
	U				0.500			
A	**V**	1.25	4.00	0.050	0.500			
B	**Zn**	10.00	4.00	0.020	0.500			

* need to be added separately

( ) = most likely analytes to be interfered with

I:\ASQAB_AT Team\FORMS\METALS\archive\TV table ICP metals.doc Jan 2012

TCLP ppm levels (As-5, Ba-100, Cd-1, Cr-5, Pb-5, Se-1, Ag-5)

Joe Day 2/9/12

Analysis Begun

Start Time: 2/9/2012 9:14:49 AM Plasma On Time: 2/9/2012 7:47:35 AM
Logged In Analyst: Optima Technique: ICP Continuous
Spectrometer Model: Optima 3300 DV, S/N 069N9033001Autosampler Model: AS-91

DIMOCK
WO# 1202001
1202003

Sample Information File: C:\pe\Administrator\Sample Information\BA20301.sif
Batch ID: BB20706
Results Data Set: DV120208
Results Library: C:\pe\Administrator\Results\Results.mdb

Method Loaded
Method Name: JOE 2010 Method Last Saved: 2/1/2012 7:50:34 AM
IEC File: JOE 2010.iec MSF File:
Method Description: 200.7 ver4.4 (analysis 200.7 or equivalent)

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Al 308.215	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
As 188.979	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
B 249.677	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Ba 233.527	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Be 313.107	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Ca 317.933	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Cd 214.440	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Co 228.616	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Cr 205.560	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Cu 327.393	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Fe 238.204	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
K 766.490	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Mg 279.077	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Mn 257.610	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Mo 202.031	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Na 589.592	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Ni 231.604	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Pb 220.353	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Sb 206.836	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Se 196.026	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Sn 189.927	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Ti 334.940	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Tl 190.801	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
V 292.402	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Y 360.073	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Zn 206.200	Lin, Calc Int	Peak Area	Radial	Y 360.073	Yes
Li 670.784	Lin, Calc Int	Peak Area	Radial	Y 360.073	No
Sr 421.552	Lin, Calc Int	Peak Area	Radial	Y 360.073	No

Sequence No.: 1 Autosampler Location: 1
Sample ID: IBL Date Collected: 2/9/2012 9:14:49 AM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: IBL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	581493.4	5817.27	1.00%	100.0	%
Ag 328.068†	1116.6	44.77	4.01%	[0.00]	mg/L
Al 308.215†	321.3	5.51	1.72%	[0.00]	mg/L
As 188.979†	-3.0	3.41	112.36%	[0.00]	mg/L
B 249.677†	-33.0	4.81	14.56%	[0.00]	mg/L
Ba 233.527†	28.0	2.46	8.79%	[0.00]	mg/L
Be 313.107†	-695.8	37.46	5.38%	[0.00]	mg/L
Ca 317.933†	7502.9	100.91	1.35%	[0.00]	mg/L
Cd 214.440†	280.7	3.08	1.10%	[0.00]	mg/L
Co 228.616†	171.1	1.54	0.90%	[0.00]	mg/L
Cr 205.560†	-5.9	3.05	51.73%	[0.00]	mg/L

Cu 327.393†	-34.1	21.22	62.29%	[0.00] mg/L
Fe 238.204†	43.7	3.53	8.09%	[0.00] mg/L
K 766.490†	2761.0	39.22	1.42%	[0.00] mg/L
Mg 279.077†	-166.9	15.23	9.12%	[0.00] mg/L
Mn 257.610†	746.9	15.09	2.02%	[0.00] mg/L
Mo 202.031†	28.4	0.45	1.59%	[0.00] mg/L
Na 589.592†	1641.4	55.34	3.37%	[0.00] mg/L
Ni 231.604†	9.6	3.60	37.61%	[0.00] mg/L
Pb 220.353†	58.6	1.75	2.99%	[0.00] mg/L
Sb 206.836†	158.6	0.91	0.58%	[0.00] mg/L
Se 196.026†	43.0	6.29	14.63%	[0.00] mg/L
Sn 189.927†	13.5	1.78	13.18%	[0.00] mg/L
Ti 334.940†	408.4	8.18	2.00%	[0.00] mg/L
Tl 190.801†	42.8	1.24	2.89%	[0.00] mg/L
V 292.402†	9.9	11.18	112.53%	[0.00] mg/L
Zn 206.200†	188.2	8.53	4.53%	[0.00] mg/L
Li 670.784†	744.4	76.13	10.23%	[0.00] mg/L
Sr 421.552†	67.1	9.23	13.76%	[0.00] mg/L

Sequence No.: 2
Sample ID: CALA
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 2/9/2012 9:18:31 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	595376.8	1129.30	0.19%	102.4	%
B 249.677†	59995.6	807.65	1.35%	[5.00]	mg/L
Ba 233.527†	83829.3	637.04	0.76%	[5.00]	mg/L
Be 313.107†	3568990.4	12453.42	0.35%	[5.00]	mg/L
Cd 214.440†	180881.7	793.59	0.44%	[5.00]	mg/L
Co 228.616†	30424.2	209.12	0.69%	[5.00]	mg/L
Mo 202.031†	3217.9	13.62	0.42%	[1.00]	mg/L
Pb 220.353†	7326.7	20.96	0.29%	[5.00]	mg/L
Sb 206.836†	3081.5	29.64	0.96%	[5.00]	mg/L
Se 196.026†	2528.1	10.66	0.42%	[5.00]	mg/L
Sn 189.927†	2268.8	8.40	0.37%	[5.00]	mg/L
Ti 334.940†	155318.1	1427.05	0.92%	[1.00]	mg/L
Tl 190.801†	437.0	1.66	0.38%	[5.00]	mg/L
V 292.402†	86311.5	621.76	0.72%	[2.5]	mg/L
Li 670.784†	930423.9	1946.27	0.21%	[5]	mg/L
Sr 421.552†	5995132.8	45369.26	0.76%	[5]	mg/L

Sequence No.: 3
Sample ID: CALB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/9/2012 9:22:48 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALB

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	577238.3	3769.27	0.65%	99.27	%
Al 308.215†	75188.7	126.47	0.17%	[20.0]	mg/L
As 188.979†	4196.4	28.67	0.68%	[10.0]	mg/L
Ca 317.933†	2005765.7	6481.00	0.32%	[50.0]	mg/L
Cr 205.560†	57273.8	451.31	0.79%	[10.0]	mg/L
Cu 327.393†	324312.1	630.66	0.19%	[10.0]	mg/L
Fe 238.204†	515505.4	1451.27	0.28%	[20.0]	mg/L
K 766.490†	347668.3	932.78	0.27%	[50.0]	mg/L
Mg 279.077†	183974.3	548.24	0.30%	[50.0]	mg/L
Mn 257.610†	1265404.7	3018.88	0.24%	[10.0]	mg/L
Na 589.592†	866886.2	1888.38	0.22%	[50.0]	mg/L
Ni 231.604†	67682.7	521.55	0.77%	[10.0]	mg/L
Zn 206.200†	187617.8	970.13	0.52%	[20.0]	mg/L

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

Autosampler Location: 1
Date Collected: 2/9/2012 9:25:35 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: IBL

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	587756.0	101.1	%	0.37				0.36%
Ag 328.068†	19.9						17.54	88.19%
Unable to evaluate QC.								
Al 308.215†	12.4	0.0033	mg/L	0.00452	3.299	µg/L	4.5247	137.13%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	2.3	0.0054	mg/L	0.00199	5.362	µg/L	1.9882	37.08%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	249.2	0.0208	mg/L	0.00185	20.77	µg/L	1.850	8.91%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	5.8	0.0003	mg/L	0.00006	0.3481	µg/L	0.05907	16.97%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	112.8	0.0002	mg/L	0.00008	0.1583	µg/L	0.08048	50.83%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	286.5	0.0071	mg/L	0.00691	7.141	µg/L	6.9078	96.73%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 214.440†	4.7	0.0001	mg/L	0.00017	0.1325	µg/L	0.17049	128.69%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	1.3	0.0002	mg/L	0.00046	0.2208	µg/L	0.46179	209.19%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	8.0	0.0014	mg/L	0.00147	1.395	µg/L	1.4651	105.00%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 327.393†	212.0	0.0065	mg/L	0.00168	6.535	µg/L	1.6828	25.75%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	48.9	0.0019	mg/L	0.00077	1.899	µg/L	0.7720	40.65%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	143.0	0.0206	mg/L	0.01263	20.57	µg/L	12.635	61.43%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	15.7	0.0043	mg/L	0.00182	4.278	µg/L	1.8164	42.46%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	92.6	0.0007	mg/L	0.00043	0.7315	µg/L	0.42887	58.63%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-1.6	-0.0005	mg/L	0.00104	-0.5096	µg/L	1.03993	204.05%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	472.5	0.0272	mg/L	0.01079	27.25	µg/L	10.786	39.58%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	5.6	0.0008	mg/L	0.00081	0.8342	µg/L	0.81159	97.29%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	5.1	0.0035	mg/L	0.00452	3.459	µg/L	4.5237	130.79%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	6.8	0.0110	mg/L	0.00324	10.95	µg/L	3.242	29.60%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.8	-0.0017	mg/L	0.00264	-1.663	µg/L	2.6379	158.63%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	1.6	0.0036	mg/L	0.00216	3.606	µg/L	2.1641	60.02%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	6.6	0.0000	mg/L	0.00009	0.0428	µg/L	0.08510	198.81%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-2.7	-0.0306	mg/L	0.02679	-30.62	µg/L	26.794	87.50%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-2.9	-0.0001	mg/L	0.00056	-0.0837	µg/L	0.55751	666.23%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	65.5	0.0070	mg/L	0.00237	6.983	µg/L	2.3731	33.98%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Li 670.784†	337.5	0.0018	mg/L	0.00006	1.813	µg/L	0.0612	3.38%
QC value within limits for Li 670.784 Recovery = Not calculated								
Sr 421.552†	84.4	0.0001	mg/L	0.00006	0.0704	µg/L	0.05911	83.94%
QC value within limits for Sr 421.552 Recovery = Not calculated								

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 5
Autosampler Location: 5

Sample ID: LCV LI/SR
Analyst:
Initial Sample Wt:
Dilution:

Date Collected: 2/9/2012 9:29:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCV LI/SR

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	588165.4	101.1	%	0.27				0.27%
Ag 328.068†	5846.4						124.12	2.12%
Al 308.215†	753.6	0.2003	mg/L	0.00467	200.3	µg/L	4.67	2.33%
As 188.979†	84.9	0.2037	mg/L	0.00679	203.7	µg/L	6.79	3.33%
B 249.677†	2691.2	0.2241	mg/L	0.00123	224.1	µg/L	1.23	0.55%
Ba 233.527†	3479.7	0.2075	mg/L	0.00113	207.5	µg/L	1.13	0.55%
Be 313.107†	144219.7	0.2021	mg/L	0.00025	202.1	µg/L	0.25	0.12%
Ca 317.933†	8335.3	0.2078	mg/L	0.00255	207.8	µg/L	2.55	1.23%
Cd 214.440†	7423.1	0.2053	mg/L	0.00138	205.3	µg/L	1.38	0.67%
Co 228.616†	1271.4	0.2090	mg/L	0.00160	209.0	µg/L	1.60	0.77%
Cr 205.560†	1203.1	0.2100	mg/L	0.00094	210.0	µg/L	0.94	0.45%
Cu 327.393†	6880.2	0.2121	mg/L	0.00169	212.1	µg/L	1.69	0.80%
Fe 238.204†	5410.8	0.2099	mg/L	0.00182	209.9	µg/L	1.82	0.87%
K 766.490†	14078.9	2.025	mg/L	0.0287	2025	µg/L	28.7	1.42%
Mg 279.077†	772.4	0.2099	mg/L	0.00114	209.9	µg/L	1.14	0.54%
Mn 257.610†	26606.0	0.2103	mg/L	0.00192	210.3	µg/L	1.92	0.91%
Mo 202.031†	656.0	0.2039	mg/L	0.00070	203.9	µg/L	0.70	0.35%
Na 589.592†	3723.1	0.2147	mg/L	0.00305	214.7	µg/L	3.05	1.42%
Ni 231.604†	1431.4	0.2115	mg/L	0.00048	211.5	µg/L	0.48	0.23%
Pb 220.353†	299.8	0.2043	mg/L	0.00151	204.3	µg/L	1.51	0.74%
Sb 206.836†	136.4	0.2171	mg/L	0.00874	217.1	µg/L	8.74	4.02%
Se 196.026†	103.8	0.2052	mg/L	0.00722	205.2	µg/L	7.22	3.52%
Sn 189.927†	1.3	0.0026	mg/L	0.00718	2.561	µg/L	7.1793	280.33%
Ti 334.940†	31446.2	0.2025	mg/L	0.00167	202.5	µg/L	1.67	0.82%
Tl 190.801†	14.3	0.1623	mg/L	0.01581	162.3	µg/L	15.81	9.74%
V 292.402†	6980.0	0.2022	mg/L	0.00342	202.2	µg/L	3.42	1.69%
Zn 206.200†	1981.0	0.2110	mg/L	0.00109	211.0	µg/L	1.09	0.52%
Li 670.784†	37862.1	0.2035	mg/L	0.00018	203.5	µg/L	0.18	0.09%
QC value within limits for Li 670.784 Recovery = 101.73%								
Sr 421.552†	243509.6	0.2031	mg/L	0.00008	203.1	µg/L	0.08	0.04%
QC value within limits for Sr 421.552 Recovery = 101.54%								

All analyte(s) passed QC.

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

Autosampler Location: 6
Date Collected: 2/9/2012 9:32:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	582626.1	100.2	%	0.43				0.43%
Ag 328.068†	595.3						30.29	5.09%
Unable to evaluate QC.								
Al 308.215†	831.5	0.2206	mg/L	0.00577	220.6	µg/L	5.77	2.62%
QC value within limits for Al 308.215 Recovery = 110.32%								
As 188.979†	90.0	0.2167	mg/L	0.00733	216.7	µg/L	7.33	3.38%
QC value within limits for As 188.979 Recovery = 108.35%								
B 249.677†	2679.6	0.2233	mg/L	0.00221	223.3	µg/L	2.21	0.99%
QC value within limits for B 249.677 Recovery = 111.65%								
Ba 233.527†	3643.2	0.2173	mg/L	0.00095	217.3	µg/L	0.95	0.44%
QC value within limits for Ba 233.527 Recovery = 108.65%								
Be 313.107†	4051.9	0.0057	mg/L	0.00006	5.679	µg/L	0.0552	0.97%
QC value within limits for Be 313.107 Recovery = 113.58%								
Ca 317.933†	22091.3	0.5507	mg/L	0.00741	550.7	µg/L	7.41	1.35%
QC value within limits for Ca 317.933 Recovery = 110.14%								
Cd 214.440†	199.9	0.0055	mg/L	0.00010	5.502	µg/L	0.1039	1.89%
QC value within limits for Cd 214.440 Recovery = 110.04%								
Co 228.616†	329.1	0.0541	mg/L	0.00172	54.09	µg/L	1.717	3.17%
QC value within limits for Co 228.616 Recovery = 108.18%								

Cr 205.560†	70.0	0.0122 mg/L	0.00034	12.21 µg/L	0.342	2.80%
QC value within limits for Cr 205.560 Recovery = 122.15%						
Cu 327.393†	940.7	0.0290 mg/L	0.00031	28.96 µg/L	0.305	1.05%
QC value within limits for Cu 327.393 Recovery = 115.86%						
Fe 238.204†	2867.9	0.1113 mg/L	0.00061	111.3 µg/L	0.61	0.55%
QC value within limits for Fe 238.204 Recovery = 111.26%						
K 766.490†	14820.9	2.131 mg/L	0.0166	2131 µg/L	16.6	0.78%
QC value within limits for K 766.490 Recovery = 106.57%						
Mg 279.077†	2026.3	0.5507 mg/L	0.00848	550.7 µg/L	8.48	1.54%
QC value within limits for Mg 279.077 Recovery = 110.14%						
Mn 257.610†	2078.6	0.0164 mg/L	0.00006	16.43 µg/L	0.055	0.34%
QC value within limits for Mn 257.610 Recovery = 109.51%						
Mo 202.031†	683.4	0.2124 mg/L	0.00201	212.4 µg/L	2.01	0.95%
QC value within limits for Mo 202.031 Recovery = 106.18%						
Na 589.592†	18583.6	1.072 mg/L	0.0068	1072 µg/L	6.8	0.63%
QC value within limits for Na 589.592 Recovery = 107.19%						
Ni 231.604†	300.3	0.0444 mg/L	0.00010	44.37 µg/L	0.096	0.22%
QC value within limits for Ni 231.604 Recovery = 110.93%						
Pb 220.353†	82.9	0.0565 mg/L	0.00128	56.48 µg/L	1.281	2.27%
QC value within limits for Pb 220.353 Recovery = 112.97%						
Sb 206.836†	44.8	0.0721 mg/L	0.00305	72.05 µg/L	3.054	4.24%
QC value within limits for Sb 206.836 Recovery = 120.09%						
Se 196.026†	111.3	0.2201 mg/L	0.00604	220.1 µg/L	6.04	2.74%
QC value within limits for Se 196.026 Recovery = 110.05%						
Sn 189.927†	96.4	0.2117 mg/L	0.00475	211.7 µg/L	4.75	2.25%
QC value within limits for Sn 189.927 Recovery = 105.85%						
Ti 334.940†	33078.0	0.2130 mg/L	0.00081	213.0 µg/L	0.81	0.38%
QC value within limits for Ti 334.940 Recovery = 106.48%						
Tl 190.801†	16.9	0.1919 mg/L	0.01411	191.9 µg/L	14.11	7.35%
QC value within limits for Tl 190.801 Recovery = 95.93%						
V 292.402†	1725.1	0.0500 mg/L	0.00051	49.97 µg/L	0.507	1.01%
QC value within limits for V 292.402 Recovery = 99.93%						
Zn 206.200†	215.5	0.0229 mg/L	0.00034	22.94 µg/L	0.336	1.47%
QC value within limits for Zn 206.200 Recovery = 114.70%						
Li 670.784†	261.7	0.0014 mg/L	0.00021	1.407 µg/L	0.2136	15.19%
QC value within limits for Li 670.784 Recovery = Not calculated						
Sr 421.552†	50.5	0.0000 mg/L	0.00004	0.0421 µg/L	0.04190	99.50%
QC value within limits for Sr 421.552 Recovery = Not calculated						

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 7
Sample ID: CCV@A/B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/9/2012 9:36:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV@A/B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	584564.6	100.5	%	0.17				0.17%
Ag 328.068†	-263.7						10.01	3.80%
Al 308.215†	37042.8	9.829	mg/L	0.0701	9829	µg/L	70.1	0.71%
QC value within limits for Al 308.215 Recovery = 98.29%								
As 188.979†	2087.3	4.974	mg/L	0.0151	4974	µg/L	15.1	0.30%
QC value within limits for As 188.979 Recovery = 99.49%								
B 249.677†	29977.4	2.493	mg/L	0.0291	2493	µg/L	29.1	1.17%
QC value within limits for B 249.677 Recovery = 99.73%								
Ba 233.527†	41556.4	2.479	mg/L	0.0119	2479	µg/L	11.9	0.48%
QC value within limits for Ba 233.527 Recovery = 99.15%								
Be 313.107†	1795482.5	2.516	mg/L	0.0011	2516	µg/L	1.1	0.04%
QC value within limits for Be 313.107 Recovery = 100.66%								
Ca 317.933†	1010796.0	25.20	mg/L	0.059	25200	µg/L	59.2	0.24%
QC value within limits for Ca 317.933 Recovery = 100.79%								
Cd 214.440†	89114.2	2.466	mg/L	0.0128	2466	µg/L	12.8	0.52%
QC value within limits for Cd 214.440 Recovery = 98.63%								
Co 228.616†	14987.7	2.463	mg/L	0.0149	2463	µg/L	14.9	0.60%
QC value within limits for Co 228.616 Recovery = 98.53%								
Cr 205.560†	28785.2	5.025	mg/L	0.0380	5025	µg/L	38.0	0.76%
QC value within limits for Cr 205.560 Recovery = 100.50%								
Cu 327.393†	161451.9	4.976	mg/L	0.0373	4976	µg/L	37.3	0.75%

QC value within limits for Cu 327.393 Recovery = 99.53%						
Fe 238.204†	259763.4	10.08 mg/L	0.016	10080 µg/L	15.6	0.16%
QC value within limits for Fe 238.204 Recovery = 100.78%						
K 766.490†	172492.0	24.81 mg/L	0.101	24810 µg/L	100.9	0.41%
QC value within limits for K 766.490 Recovery = 99.23%						
Mg 279.077†	91716.1	24.93 mg/L	0.143	24930 µg/L	143.3	0.57%
QC value within limits for Mg 279.077 Recovery = 99.71%						
Mn 257.610†	638286.4	5.044 mg/L	0.0040	5044 µg/L	4.0	0.08%
QC value within limits for Mn 257.610 Recovery = 100.88%						
Mo 202.031†	1618.7	0.5030 mg/L	0.00110	503.0 µg/L	1.10	0.22%
QC value within limits for Mo 202.031 Recovery = 100.60%						
Na 589.592†	434174.2	25.04 mg/L	0.002	25040 µg/L	2.3	0.01%
QC value within limits for Na 589.592 Recovery = 100.17%						
Ni 231.604†	34195.4	5.052 mg/L	0.0219	5052 µg/L	21.9	0.43%
QC value within limits for Ni 231.604 Recovery = 101.05%						
Pb 220.353†	3593.9	2.446 mg/L	0.0087	2446 µg/L	8.7	0.36%
QC value within limits for Pb 220.353 Recovery = 97.84%						
Sb 206.836†	1631.6	2.530 mg/L	0.0256	2530 µg/L	25.6	1.01%
QC value within limits for Sb 206.836 Recovery = 101.21%						
Se 196.026†	1287.4	2.546 mg/L	0.0115	2546 µg/L	11.5	0.45%
QC value within limits for Se 196.026 Recovery = 101.84%						
Sn 189.927†	1157.6	2.516 mg/L	0.0068	2516 µg/L	6.8	0.27%
QC value within limits for Sn 189.927 Recovery = 100.64%						
Ti 334.940†	78304.7	0.5042 mg/L	0.00286	504.2 µg/L	2.86	0.57%
QC value within limits for Ti 334.940 Recovery = 100.83%						
Tl 190.801†	229.1	2.529 mg/L	0.0377	2529 µg/L	37.7	1.49%
QC value within limits for Tl 190.801 Recovery = 101.18%						
V 292.402†	43438.4	1.258 mg/L	0.0099	1258 µg/L	9.9	0.79%
QC value within limits for V 292.402 Recovery = 100.65%						
Zn 206.200†	94552.7	10.07 mg/L	0.050	10070 µg/L	49.9	0.50%
QC value within limits for Zn 206.200 Recovery = 100.75%						
Li 670.784†	457943.6	2.461 mg/L	0.0033	2461 µg/L	3.3	0.13%
QC value within limits for Li 670.784 Recovery = 98.44%						
Sr 421.552†	2991867.0	2.495 mg/L	0.0106	2495 µg/L	10.6	0.43%
QC value within limits for Sr 421.552 Recovery = 99.81%						

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: SCV@LVM
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 2/9/2012 9:40:52 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SCV@LVM

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	590730.5	101.6	%	1.07				1.06%
Ag 328.068†	104828.3						1394.81	1.33%
Al 308.215†	14869.1	3.951	mg/L	0.0366	3951	µg/L	36.6	0.93%
QC value within limits for Al 308.215 Recovery = 98.78%								
As 188.979†	1681.7	4.036	mg/L	0.0515	4036	µg/L	51.5	1.28%
QC value within limits for As 188.979 Recovery = 100.91%								
B 249.677†	51646.6	4.300	mg/L	0.0195	~~4300~~	µg/L	19.5	0.45%
QC value greater than the upper limit for B 249.677 Recovery = 107.50%								
Ba 233.527†	69236.9	4.130	mg/L	0.0223	4130	µg/L	22.3	0.54%
QC value within limits for Ba 233.527 Recovery = 103.24%								
Be 313.107†	2893872.1	4.055	mg/L	0.0444	4055	µg/L	44.4	1.09%
QC value within limits for Be 313.107 Recovery = 101.38%								
Ca 317.933†	165494.2	4.125	mg/L	0.0267	4125	µg/L	26.7	0.65%
QC value within limits for Ca 317.933 Recovery = 103.14%								
Cd 214.440†	146414.7	4.050	mg/L	0.0377	4050	µg/L	37.7	0.93%
QC value within limits for Cd 214.440 Recovery = 101.25%								
Co 228.616†	25205.4	4.142	mg/L	0.0370	4142	µg/L	37.0	0.89%
QC value within limits for Co 228.616 Recovery = 103.56%								
Cr 205.560†	23730.4	4.142	mg/L	0.0420	4142	µg/L	42.0	1.01%
QC value within limits for Cr 205.560 Recovery = 103.55%								
Cu 327.393†	135327.9	4.172	mg/L	0.0054	4172	µg/L	5.4	0.13%
QC value within limits for Cu 327.393 Recovery = 104.31%								
Fe 238.204†	106457.9	4.130	mg/L	0.0223	4130	µg/L	22.3	0.54%
QC value within limits for Fe 238.204 Recovery = 103.26%								

Use BS as SCV

K 766.490†	278794.9	40.09 mg/L	0.170	40090 µg/L	170.2	0.42%
QC value within limits for K 766.490 Recovery = 100.24%						
Mg 279.077†	15109.5	4.106 mg/L	0.0452	4106 µg/L	45.2	1.10%
QC value within limits for Mg 279.077 Recovery = 102.66%						
Mn 257.610†	523544.0	4.137 mg/L	0.0165	4137 µg/L	16.5	0.40%
QC value within limits for Mn 257.610 Recovery = 103.43%						
Mo 202.031†	13063.6	4.060 mg/L	0.0491	4060 µg/L	49.1	1.21%
QC value within limits for Mo 202.031 Recovery = 101.49%						
Na 589.592†	72542.8	4.184 mg/L	0.0095	4184 µg/L	9.5	0.23%
QC value within limits for Na 589.592 Recovery = 104.60%						
Ni 231.604†	28301.2	4.181 mg/L	0.0433	4181 µg/L	43.3	1.04%
QC value within limits for Ni 231.604 Recovery = 104.54%						
Pb 220.353†	5911.2	4.029 mg/L	0.0563	4029 µg/L	56.3	1.40%
QC value within limits for Pb 220.353 Recovery = 100.72%						
Sb 206.836†	2653.6	4.225 mg/L	0.0434	4225 µg/L	43.4	1.03%
QC value greater than the upper limit for Sb 206.836 Recovery = 105.62% NR						
Se 196.026†	2044.4	4.043 mg/L	0.0384	4043 µg/L	38.4	0.95%
QC value within limits for Se 196.026 Recovery = 101.08%						
Sn 189.927†	-9.6	-0.0268 mg/L	0.00460	-26.84 µg/L USE BS	4.596	17.12%
Ti 334.940†	627429.9	4.040 mg/L	0.0049	4040 µg/L AS	4.9	0.12%
QC value within limits for Ti 334.940 Recovery = 100.99%						
Tl 190.801†	366.1	4.162 mg/L	0.1025	4162 µg/L SCV	102.5	2.46%
QC value within limits for Tl 190.801 Recovery = 104.04%						
V 292.402†	138283.2	4.005 mg/L	0.0155	4005 µg/L	15.5	0.39%
QC value within limits for V 292.402 Recovery = 100.13%						
Zn 206.200†	39144.4	4.169 mg/L	0.0460	4169 µg/L	46.0	1.10%
QC value within limits for Zn 206.200 Recovery = 104.24%						
Li 670.784†	739697.7	3.975 mg/L	0.0102	3975 µg/L	10.2	0.26%
QC value within limits for Li 670.784 Recovery = 99.38%						
Sr 421.552†	4859651.1	4.053 mg/L	0.0483	4053 µg/L	48.3	1.19%
QC value within limits for Sr 421.552 Recovery = 101.32%						

QC Failed. Continue with analysis.

Sequence No.: 9 **Autosampler Location:** 13
Sample ID: IFA@1 **Date Collected:** 2/9/2012 9:45:00 AM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: IFA@1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	583571.3	100.4	%	1.03				1.02%
Ag 328.068†	2997.6						1095.50	36.55%
Unable to evaluate QC.								
Al 308.215†	944415.0	251.0	mg/L	0.66	251000	µg/L	658.5	0.26%
QC value within limits for Al 308.215 Recovery = 100.39%								
As 188.979†	31.2	0.0996	mg/L	0.00944	99.56	µg/L	9.438	9.48%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	342.5	0.0285	mg/L	0.00420	28.54	µg/L	4.205	14.73%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	65.7	0.0039	mg/L	0.00024	3.916	µg/L	0.2444	6.24%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	229.0	0.0003	mg/L	0.00027	0.3235	µg/L	0.27104	83.80%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	10148050.2	253.0	mg/L	2.66	253000	µg/L	2664.7	1.05%
QC value within limits for Ca 317.933 Recovery = 101.19%								
Cd 214.440†	1374.1	-0.0024	mg/L	0.00065	-2.402	µg/L	0.6451	26.85%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	211.1	0.0347	mg/L	0.00110	34.69	µg/L	1.103	3.18%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	76.8	-0.0107	mg/L	0.00111	-10.71	µg/L	1.114	10.40%
QC value less than the lower limit for Cr 205.560 Recovery = Not calculated NR								
Cu 327.393†	2.2	-0.0191	mg/L	0.00168	-19.15	µg/L	1.677	8.76%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	125.2	0.0049	mg/L	0.00032	4.857	µg/L	0.3229	6.65%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	354.4	0.0510	mg/L	0.01998	50.97	µg/L	19.979	39.20%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	-25.3	-0.0069	mg/L	0.00212	-6.878	µg/L	2.1170	30.78%

QC value within limits for Mg 279.077 Recovery = Not calculated

Mn 257.610†	368.9	0.0029 mg/L	0.00025	2.915 µg/L	0.2453	8.41%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	5.4	0.0017 mg/L	0.00125	1.667 µg/L	1.2528	75.17%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592†	294.8	0.0170 mg/L	0.00386	17.00 µg/L	3.857	22.68%
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	326612.1	48.26 mg/L	0.230	48260 µg/L	229.9	0.48%
QC value within limits for Ni 231.604 Recovery = 96.51%							
Pb 220.353†	84.4	-0.0061 mg/L	0.00181	-6.109 µg/L	1.8079	29.59%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	204.4	-0.0104 mg/L	0.01452	-10.40 µg/L	14.516	139.59%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	71.4	0.1413 mg/L	0.00701	141.3 µg/L	7.01	4.96%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	132.8	-0.0614 mg/L	0.01743	-61.41 µg/L	17.426	28.38%
Ti 334.940†	239.7	0.0015 mg/L	0.00038	1.543 µg/L	0.3755	24.33%
Tl 190.801†	79.6	0.1070 mg/L	0.05261	107.0 µg/L	52.61	49.16%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	90.9	0.0026 mg/L	0.00015	2.633 µg/L	0.1483	5.63%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.200†	229.0	-0.0007 mg/L	0.00113	-0.7211 µg/L	1.12838	156.47%
QC value within limits for Zn 206.200 Recovery = Not calculated							
Li 670.784†	781.5	0.0042 mg/L	0.00029	4.200 µg/L	0.2851	6.79%
QC value within limits for Li 670.784 Recovery = Not calculated							
Sr 421.552†	2328.4	0.0019 mg/L	0.00024	1.942 µg/L	0.2375	12.23%
QC value within limits for Sr 421.552 Recovery = Not calculated							

QC Failed. Continue with analysis.

Sequence No.: 10
Sample ID: IFA@2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 2/9/2012 9:50:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: IFA@2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	565351.6	97.22	%	0.422				0.43%
Ag 328.068†	-6745.9						69.33	1.03%
Unable to evaluate QC.								
Al 308.215†	22.4	0.0059	mg/L	0.00942	5.929	µg/L	9.4241	158.96%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-3.5	0.0752	mg/L	0.00835	75.24	µg/L	8.354	11.10%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-1603.1	-0.1336	mg/L	0.00092	-133.6	µg/L	0.92	0.69%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	1756.6	0.1048	mg/L	0.00185	104.8	µg/L	1.85	1.77%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	131.3	0.0002	mg/L	0.00005	0.1781	µg/L	0.04523	25.40%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	750.0	0.0187	mg/L	0.00465	18.70	µg/L	4.645	24.85%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 214.440†	278.9	-0.0020	mg/L	0.00017	-1.964	µg/L	0.1724	8.78%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	247.1	0.0406	mg/L	0.00017	40.62	µg/L	0.170	0.42%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	-167.3	0.0070	mg/L	0.00106	7.012	µg/L	1.0596	15.11%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 327.393†	125.7	0.0039	mg/L	0.00138	3.874	µg/L	1.3847	35.74%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	6224798.6	241.5	mg/L	1.16	241500	µg/L	1156.2	0.48%
QC value within limits for Fe 238.204 Recovery = 96.60%								
K 766.490†	1261.5	0.1814	mg/L	0.02178	181.4	µg/L	21.78	12.01%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	971445.2	264.0	mg/L	1.06	264000	µg/L	1057.8	0.40%
QC value within limits for Mg 279.077 Recovery = 105.61%								
Mn 257.610†	1526.6	0.0121	mg/L	0.00023	12.06	µg/L	0.229	1.90%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	10.9	0.0034	mg/L	0.00092	3.374	µg/L	0.9233	27.37%

Y 360.073	604187.9	103.9	%	0.67			0.65%
Ag 328.068†	2534.3					27.45	1.08%
Al 308.215†	7351.3	1.946	mg/L	0.0067	1946 µg/L	6.7	0.34%
As 188.979†	213.6	0.5166	mg/L	0.01708	516.6 µg/L	17.08	3.31%
B 249.677†	5984.2	0.4982	mg/L	0.00020	498.2 µg/L	0.20	0.04%
Ba 233.527†	33697.6	2.010	mg/L	0.0013	2010 µg/L	1.3	0.07%
Be 313.107†	36276.6	0.0509	mg/L	0.00011	50.92 µg/L	0.109	0.21%
Ca 317.933†	404487.0	10.08	mg/L	0.030	10080 µg/L	29.7	0.29%
Cd 214.440†	1745.0	0.0481	mg/L	0.00026	48.14 µg/L	0.256	0.53%
Co 228.616†	3017.2	0.4959	mg/L	0.00357	495.9 µg/L	3.57	0.72%
Cr 205.560†	2899.2	0.5067	mg/L	0.00243	506.7 µg/L	2.43	0.48%
Cu 327.393†	16757.4	0.5159	mg/L	0.00086	515.9 µg/L	0.86	0.17%
Fe 238.204†	129030.9	5.006	mg/L	0.0095	5006 µg/L	9.5	0.19%
K 766.490†	137760.8	19.81	mg/L	0.077	19810 µg/L	76.7	0.39%
Mg 279.077†	36965.0	10.05	mg/L	0.027	10050 µg/L	27.2	0.27%
Mn 257.610†	64084.6	0.5064	mg/L	0.00024	506.4 µg/L	0.24	0.05%
Mo 202.031†	1638.8	0.5093	mg/L	0.00310	509.3 µg/L	3.10	0.61%
Na 589.592†	175064.1	10.10	mg/L	0.032	10100 µg/L	32.0	0.32%
Ni 231.604†	3433.0	0.5072	mg/L	0.00274	507.2 µg/L	5.64	0.54%
Pb 220.353†	707.0	0.4819	mg/L	0.00244	481.9 µg/L	2.44	0.51%
Sb 206.836†	326.1	0.5115	mg/L	0.01379	511.5 µg/L	13.79	2.70%
Se 196.026†	255.7	0.5058	mg/L	0.00810	505.8 µg/L	8.10	1.60%
Sn 189.927†	237.4	0.5091	mg/L	0.00902	509.1 µg/L	9.02	1.77%
Ti 334.940†	79414.9	0.5113	mg/L	0.00046	511.3 µg/L	0.46	0.09%
Tl 190.801†	45.2	0.4847	mg/L	0.00863	484.7 µg/L	8.63	1.78%
V 292.402†	17232.4	0.4991	mg/L	0.00080	499.1 µg/L	0.80	0.16%
Zn 206.200†	4765.2	0.5074	mg/L	0.00360	507.4 µg/L	3.60	0.71%
Li 670.784†	94260.7	0.5065	mg/L	0.00219	506.5 µg/L	2.19	0.43%
Sr 421.552†	599922.1	0.5003	mg/L	0.00226	500.3 µg/L	2.26	0.45%

Use A5 Sev 100%

Use A5 102%

Sequence No.: 14
Sample ID: 1202001-23
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 2/9/2012 10:08:59 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202001-23

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	599092.7	103.0	%	0.81				0.78%
Ag 328.068†	50.4						31.10	61.66%
Al 308.215†	-17.7	-0.0394	mg/L	0.00528	-39.43	µg/L	5.280	13.39%
As 188.979†	7.5	0.0213	mg/L	0.00408	21.29	µg/L	4.082	19.17%
B 249.677†	705.8	0.0588	mg/L	0.00146	58.78	µg/L	1.462	2.49%
Ba 233.527†	59190.9	3.530	mg/L	0.0298	3530	µg/L	29.8	0.84%
Be 313.107†	95.8	0.0001	mg/L	0.00007	0.1353	µg/L	0.06582	48.66%
Ca 317.933†	1448909.1	36.12	mg/L	0.185	36120	µg/L	185.2	0.51%
Cd 214.440†	-3.4	-0.0001	mg/L	0.00006	-0.0907	µg/L	0.06083	67.09%
Co 228.616†	-25.9	-0.0043	mg/L	0.00067	-4.263	µg/L	0.6746	15.82%
Cr 205.560†	28.9	0.0050	mg/L	0.00127	5.046	µg/L	1.2653	25.07%
Cu 327.393†	59.1	-0.0009	mg/L	0.00094	-0.9214	µg/L	0.94211	102.25%
Fe 238.204†	1258.3	0.0488	mg/L	0.00035	48.82	µg/L	0.345	0.71%
K 766.490†	17727.3	2.549	mg/L	0.0338	2549	µg/L	33.8	1.33%
Mg 279.077†	27705.1	7.530	mg/L	0.0586	7530	µg/L	58.6	0.78%
Mn 257.610†	5243.1	0.0414	mg/L	0.00039	41.43	µg/L	0.392	0.95%
Mo 202.031†	-6.2	-0.0019	mg/L	0.00089	-1.938	µg/L	0.8872	45.77%
Na 589.592†	821716.1	47.39	mg/L	0.107	47390	µg/L	106.7	0.23%
Ni 231.604†	2.1	0.0003	mg/L	0.00020	0.3071	µg/L	0.20266	65.99%
Pb 220.353†	-24.2	-0.0165	mg/L	0.00329	-16.53	µg/L	3.288	19.89%
Sb 206.836†	-1.2	-0.0051	mg/L	0.00067	-5.055	µg/L	0.6677	13.21%
Se 196.026†	8.7	0.0172	mg/L	0.00221	17.15	µg/L	2.207	12.87%
Sn 189.927†	30.5	0.0166	mg/L	0.00711	16.59	µg/L	7.110	42.87%
Ti 334.940†	-1.1	0.0000	mg/L	0.00021	-0.0071	µg/L	0.20873	>999.9%
Tl 190.801†	5.8	0.0546	mg/L	0.02551	54.62	µg/L	25.512	46.71%
V 292.402†	8.8	0.0003	mg/L	0.00017	0.2542	µg/L	0.16950	66.67%
Zn 206.200†	3.3	0.0003	mg/L	0.00020	0.3471	µg/L	0.20329	58.56%
Li 670.784†	23681.8	0.1273	mg/L	0.00160	127.3	µg/L	1.60	1.26%
Sr 421.552†	3292137.2	2.746	mg/L	0.0187	2746	µg/L	18.7	0.68%

Sequence No.: 15
Sample ID: BB20706-DUP2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 2/9/2012 10:13:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20706-DUP2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	601089.2	103.4	%	0.42				0.41%
Ag 328.068†	11.6						49.38	427.37%
Al 308.215†	-14.2	-0.0395	mg/L	0.00373	-39.52	µg/L	3.725	9.43%
As 188.979†	6.9	0.0201	mg/L	0.00218	20.11	µg/L	2.177	10.83%
B 249.677†	700.3	0.0583	mg/L	0.00100	58.32	µg/L	1.001	1.72%
Ba 233.527†	60985.0	3.637	mg/L	0.0046	3637	µg/L	4.6	0.13%
Be 313.107†	65.7	0.0001	mg/L	0.00007	0.0932	µg/L	0.07080	75.98%
Ca 317.933†	1491223.8	37.17	mg/L	0.060	37170	µg/L	59.5	0.16%
Cd 214.440†	-1.6	0.0000	mg/L	0.00012	-0.0417	µg/L	0.11776	282.17%
Co 228.616†	-34.5	-0.0057	mg/L	0.00056	-5.662	µg/L	0.5616	9.92%
Cr 205.560†	31.1	0.0054	mg/L	0.00050	5.434	µg/L	0.5009	9.22%
Cu 327.393†	29.9	-0.0019	mg/L	0.00073	-1.902	µg/L	0.7345	38.62%
Fe 238.204†	1194.7	0.0464	mg/L	0.00047	46.35	µg/L	0.472	1.02%
K 766.490†	18233.2	2.622	mg/L	0.0099	2622	µg/L	9.9	0.38%
Mg 279.077†	28557.7	7.761	mg/L	0.0216	7761	µg/L	21.6	0.28%
Mn 257.610†	5365.9	0.0424	mg/L	0.00025	42.40	µg/L	0.247	0.58%
Mo 202.031†	-6.6	-0.0020	mg/L	0.00087	-2.042	µg/L	0.8745	42.82%
Na 589.592†	843356.3	48.64	mg/L	0.109	48640	µg/L	108.8	0.22%
Ni 231.604†	4.0	0.0006	mg/L	0.00108	0.5960	µg/L	1.07631	180.59%
Pb 220.353†	-23.5	-0.0160	mg/L	0.00537	-16.01	µg/L	5.375	33.57%
Sb 206.836†	3.6	0.0025	mg/L	0.00367	2.512	µg/L	3.6745	146.28%
Se 196.026†	5.0	0.0099	mg/L	0.01480	9.924	µg/L	14.7960	149.09%
Sn 189.927†	29.1	0.0121	mg/L	0.00386	12.13	µg/L	3.856	31.80%
Ti 334.940†	-26.4	-0.0002	mg/L	0.00022	-0.1700	µg/L	0.21719	127.75%
Tl 190.801†	7.2	0.0699	mg/L	0.03524	69.91	µg/L	35.238	50.41%
V 292.402†	19.7	0.0006	mg/L	0.00018	0.5697	µg/L	0.18427	32.35%
Zn 206.200†	-1.0	-0.0001	mg/L	0.00031	-0.1091	µg/L	0.30553	279.94%
Li 670.784†	24510.1	0.1317	mg/L	0.00055	131.7	µg/L	0.55	0.42%
Sr 421.552†	3389089.5	2.827	mg/L	0.0252	2827	µg/L	25.2	0.89%

Sequence No.: 16
Sample ID: 1202001-37
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 2/9/2012 10:17:02 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202001-37

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	601031.1	103.4	%	0.22				0.21%
Ag 328.068†	101.1						9.64	9.54%
Al 308.215†	15.0	-0.0079	mg/L	0.00667	-7.887	µg/L	6.6731	84.61%
As 188.979†	5.3	0.0131	mg/L	0.00122	13.14	µg/L	1.222	9.30%
B 249.677†	174.9	0.0146	mg/L	0.00105	14.58	µg/L	1.052	7.22%
Ba 233.527†	1626.6	0.0970	mg/L	0.00010	97.02	µg/L	0.096	0.10%
Be 313.107†	80.0	0.0001	mg/L	0.00004	0.1125	µg/L	0.03878	34.46%
Ca 317.933†	495872.6	12.36	mg/L	0.038	12360	µg/L	37.7	0.31%
Cd 214.440†	-5.2	-0.0001	mg/L	0.00013	-0.1080	µg/L	0.13309	123.19%
Co 228.616†	-4.8	-0.0008	mg/L	0.00008	-0.7848	µg/L	0.07958	10.14%
Cr 205.560†	11.8	0.0021	mg/L	0.00030	2.065	µg/L	0.3040	14.73%
Cu 327.393†	3891.3	0.1190	mg/L	0.00089	119.0	µg/L	0.89	0.75%
Fe 238.204†	77.7	0.0030	mg/L	0.00014	3.013	µg/L	0.1395	4.63%
K 766.490†	5025.0	0.7227	mg/L	0.00628	722.7	µg/L	6.28	0.87%
Mg 279.077†	6899.3	1.875	mg/L	0.0069	1875	µg/L	6.9	0.37%
Mn 257.610†	7.3	0.0001	mg/L	0.00004	0.0578	µg/L	0.04064	70.30%
Mo 202.031†	-3.5	-0.0011	mg/L	0.00087	-1.096	µg/L	0.8673	79.14%
Na 589.592†	115778.9	6.678	mg/L	0.0319	6678	µg/L	31.9	0.48%
Ni 231.604†	7.0	0.0010	mg/L	0.00036	1.038	µg/L	0.3605	34.74%
Pb 220.353†	-5.5	-0.0037	mg/L	0.00634	-3.743	µg/L	6.3378	169.33%
Sb 206.836†	-5.1	-0.0091	mg/L	0.00309	-9.137	µg/L	3.0913	33.83%

Se 196.026†	2.1	0.0042	mg/L	0.00497	4.210	µg/L	4.9707 118.08%
Sn 189.927†	11.3	0.0077	mg/L	0.00548	7.674	µg/L	5.4818 71.44%
Ti 334.940†	-10.3	-0.0001	mg/L	0.00008	-0.0663	µg/L	0.08047 121.37%
Tl 190.801†	0.2	-0.0005	mg/L	0.02284	-0.4674	µg/L	22.83665 >999.9%
V 292.402†	2.6	0.0001	mg/L	0.00005	0.0751	µg/L	0.05264 70.09%
Zn 206.200†	257.4	0.0274	mg/L	0.00062	27.43	µg/L	0.621 2.26%
Li 670.784†	472.2	0.0025	mg/L	0.00033	2.538	µg/L	0.3267 12.87%
Sr 421.552†	48326.0	0.0403	mg/L	0.00014	40.30	µg/L	0.140 0.35%

Sequence No.: 17
Sample ID: 1202001-38
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 2/9/2012 10:20:40 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202001-38

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	606593.2	104.3	%	1.00				0.96%
Ag 328.068†	44.6						11.79	26.43%
Al 308.215†	11.4	-0.0087	mg/L	0.00362	-8.655	µg/L	3.6157	41.78%
As 188.979†	5.1	0.0127	mg/L	0.00081	12.67	µg/L	0.807	6.37%
B 249.677†	150.6	0.0125	mg/L	0.00091	12.55	µg/L	0.908	7.24%
Ba 233.527†	1546.1	0.0922	mg/L	0.00101	92.22	µg/L	1.008	1.09%
Be 313.107†	106.0	0.0001	mg/L	0.00005	0.1489	µg/L	0.04624	31.05%
Ca 317.933†	487761.7	12.16	mg/L	0.142	12160	µg/L	142.2	1.17%
Cd 214.440†	-15.2	-0.0004	mg/L	0.00008	-0.3717	µg/L	0.07645	20.57%
Co 228.616†	-6.9	-0.0011	mg/L	0.00102	-1.128	µg/L	1.0205	90.44%
Cr 205.560†	12.7	0.0022	mg/L	0.00027	2.213	µg/L	0.2732	12.34%
Cu 327.393†	5138.1	0.1575	mg/L	0.00132	157.5	µg/L	1.32	0.84%
Fe 238.204†	71.0	0.0028	mg/L	0.00035	2.753	µg/L	0.3495	12.70%
K 766.490†	4836.0	0.6955	mg/L	0.00859	695.5	µg/L	8.59	1.24%
Mg 279.077†	6861.8	1.865	mg/L	0.0316	1865	µg/L	31.6	1.70%
Mn 257.610†	0.5	0.0000	mg/L	0.00009	0.0036	µg/L	0.08964	>999.9%
Mo 202.031†	-4.1	-0.0013	mg/L	0.00112	-1.268	µg/L	1.1172	88.12%
Na 589.592†	111009.0	6.403	mg/L	0.0787	6403	µg/L	78.7	1.23%
Ni 231.604†	9.3	0.0014	mg/L	0.00033	1.373	µg/L	0.3261	23.74%
Pb 220.353†	-8.1	-0.0055	mg/L	0.00260	-5.517	µg/L	2.5967	47.06%
Sb 206.836†	-7.2	-0.0124	mg/L	0.00192	-12.44	µg/L	1.918	15.42%
Se 196.026†	1.2	0.0024	mg/L	0.00735	2.418	µg/L	7.3485	303.85%
Sn 189.927†	10.7	0.0066	mg/L	0.00682	6.560	µg/L	6.8210	103.97%
Ti 334.940†	3.5	0.0000	mg/L	0.00007	0.0227	µg/L	0.06888	303.98%
Tl 190.801†	-1.4	-0.0187	mg/L	0.03450	-18.66	µg/L	34.501	184.94%
V 292.402†	3.7	0.0001	mg/L	0.00030	0.1082	µg/L	0.30332	280.36%
Zn 206.200†	213.8	0.0228	mg/L	0.00082	22.79	µg/L	0.816	3.58%
Li 670.784†	455.1	0.0024	mg/L	0.00029	2.445	µg/L	0.2869	11.73%
Sr 421.552†	47767.8	0.0398	mg/L	0.00050	39.84	µg/L	0.501	1.26%

Sequence No.: 18
Sample ID: 1202001-39
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 2/9/2012 10:24:18 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202001-39

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	602018.7	103.5	%	0.38				0.37%
Ag 328.068†	37.5						27.86	74.25%
Al 308.215†	-16.6	-0.0401	mg/L	0.00519	-40.09	µg/L	5.195	12.96%
As 188.979†	8.4	0.0238	mg/L	0.00887	23.76	µg/L	8.871	37.34%
B 249.677†	669.9	0.0558	mg/L	0.00046	55.79	µg/L	0.456	0.82%
Ba 233.527†	60915.2	3.633	mg/L	0.0193	3633	µg/L	19.3	0.53%
Be 313.107†	55.4	0.0001	mg/L	0.00005	0.0784	µg/L	0.05405	68.98%
Ca 317.933†	1488131.6	37.10	mg/L	0.059	37100	µg/L	58.6	0.16%
Cd 214.440†	-1.5	0.0000	mg/L	0.00016	-0.0412	µg/L	0.15645	379.62%
Co 228.616†	-31.7	-0.0052	mg/L	0.00068	-5.215	µg/L	0.6796	13.03%
Cr 205.560†	21.1	0.0037	mg/L	0.00075	3.690	µg/L	0.7504	20.34%

Cu 327.393†	-9.4	-0.0031	mg/L	0.00045	-3.108	µg/L	0.4524	14.56%
Fe 238.204†	696.6	0.0270	mg/L	0.00053	27.03	µg/L	0.529	1.96%
K 766.490†	18103.2	2.604	mg/L	0.0207	2604	µg/L	20.7	0.79%
Mg 279.077†	28574.1	7.766	mg/L	0.0284	7766	µg/L	28.4	0.37%
Mn 257.610†	5352.8	0.0423	mg/L	0.00014	42.30	µg/L	0.144	0.34%
Mo 202.031†	-6.6	-0.0021	mg/L	0.00247	-2.060	µg/L	2.4652	119.67%
Na 589.592†	831013.4	47.93	mg/L	0.081	47930	µg/L	81.3	0.17%
Ni 231.604†	-1.4	-0.0002	mg/L	0.00062	-0.2009	µg/L	0.62160	309.44%
Pb 220.353†	-29.0	-0.0198	mg/L	0.00504	-19.78	µg/L	5.043	25.49%
Sb 206.836†	1.3	-0.0010	mg/L	0.00235	-1.035	µg/L	2.3520	227.24%
Se 196.026†	8.1	0.0159	mg/L	0.01556	15.93	µg/L	15.557	97.64%
Sn 189.927†	29.8	0.0138	mg/L	0.00692	13.82	µg/L	6.924	50.09%
Ti 334.940†	-22.1	-0.0001	mg/L	0.00007	-0.1420	µg/L	0.07246	51.03%
Tl 190.801†	6.2	0.0582	mg/L	0.01649	58.18	µg/L	16.490	28.34%
V 292.402†	24.6	0.0007	mg/L	0.00055	0.7132	µg/L	0.55176	77.37%
Zn 206.200†	-15.5	-0.0017	mg/L	0.00051	-1.652	µg/L	0.5121	31.00%
Li 670.784†	24146.0	0.1298	mg/L	0.00111	129.8	µg/L	1.11	0.86%
Sr 421.552†	3400622.9	2.836	mg/L	0.0033	2836	µg/L	3.3	0.12%

Sequence No.: 19
Sample ID: BB20706-MS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 2/9/2012 10:28:23 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20706-MS2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	600106.3	103.2	%	0.65				0.63%
Ag 328.068†	5066.4						57.10	1.13%
Al 308.215†	7487.1	1.947	mg/L	0.0258	1947	µg/L	25.8	1.32%
As 188.979†	218.4	0.5370	mg/L	0.01027	537.0	µg/L	10.27	1.91%
B 249.677†	6688.8	0.5569	mg/L	0.00828	556.9	µg/L	8.28	1.49%
Ba 233.527†	93715.7	5.590	mg/L	0.0587	5590	µg/L	58.7	1.05%
Be 313.107†	37062.8	0.0520	mg/L	0.00040	52.03	µg/L	0.404	0.78%
Ca 317.933†	1877397.5	46.80	mg/L	0.231	46800	µg/L	231.4	0.49%
Cd 214.440†	1735.4	0.0479	mg/L	0.00058	47.87	µg/L	0.577	1.21%
Co 228.616†	2999.1	0.4929	mg/L	0.00302	492.9	µg/L	3.02	0.61%
Cr 205.560†	2939.6	0.5138	mg/L	0.00600	513.8	µg/L	6.00	1.17%
Cu 327.393†	16720.8	0.5120	mg/L	0.00543	512.0	µg/L	5.43	1.06%
Fe 238.204†	129904.1	5.040	mg/L	0.0504	5040	µg/L	50.4	1.00%
K 766.490†	156428.2	22.50	mg/L	0.097	22500	µg/L	97.0	0.43%
Mg 279.077†	64933.7	17.65	mg/L	0.157	17650	µg/L	156.9	0.89%
Mn 257.610†	69405.7	0.5485	mg/L	0.00561	548.5	µg/L	5.61	1.02%
Mo 202.031†	3316.7	1.031	mg/L	0.0092	1031	µg/L	9.2	0.89%
Na 589.592†	1001196.2	57.75	mg/L	0.183	57750	µg/L	183.3	0.32%
Ni 231.604†	3386.6	0.5004	mg/L	0.00661	500.4	µg/L	6.61	1.32%
Pb 220.353†	668.2	0.4554	mg/L	0.00669	455.4	µg/L	6.69	1.47%
Sb 206.836†	665.5	1.059	mg/L	0.0099	1059	µg/L	9.9	0.93%
Se 196.026†	261.7	0.5176	mg/L	0.00036	517.6	µg/L	0.36	0.07%
Sn 189.927†	502.0	1.041	mg/L	0.0173	1041	µg/L	17.3	1.67%
Ti 334.940†	162625.7	1.047	mg/L	0.0033	1047	µg/L	3.3	0.31%
Tl 190.801†	55.7	0.5931	mg/L	0.05006	593.1	µg/L	50.06	8.44%
V 292.402†	17020.1	0.4930	mg/L	0.00597	493.0	µg/L	5.97	1.21%
Zn 206.200†	4769.0	0.5078	mg/L	0.00547	507.8	µg/L	5.47	1.08%
Li 670.784†	114792.6	0.6169	mg/L	0.00250	616.9	µg/L	2.50	0.40%
Sr 421.552†	3954135.6	3.298	mg/L	0.0161	3298	µg/L	16.1	0.49%

Sequence No.: 20
Sample ID: 1202001-40
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 2/9/2012 10:34:01 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202001-40

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	609787.0	104.9	%	0.72				0.69%

Ag 328.068†	16.4					33.43	203.36%
Al 308.215†	-28.6	-0.0302	mg/L	0.00718	-30.15 µg/L	7.181	23.82%
As 188.979†	4.9	0.0137	mg/L	0.00039	13.69 µg/L	0.389	2.84%
B 249.677†	311.7	0.0260	mg/L	0.00059	25.97 µg/L	0.592	2.28%
Ba 233.527†	1750.3	0.1044	mg/L	0.00095	104.4 µg/L	0.95	0.91%
Be 313.107†	61.7	0.0001	mg/L	0.00002	0.0871 µg/L	0.01802	20.70%
Ca 317.933†	939952.7	23.43	mg/L	0.130	23430 µg/L	129.9	0.55%
Cd 214.440†	-20.9	-0.0006	mg/L	0.00002	-0.5651 µg/L	0.02272	4.02%
Co 228.616†	-8.2	-0.0013	mg/L	0.00088	-1.349 µg/L	0.8778	65.06%
Cr 205.560†	17.5	0.0031	mg/L	0.00030	3.061 µg/L	0.3029	9.90%
Cu 327.393†	934.9	0.0270	mg/L	0.00090	27.05 µg/L	0.897	3.32%
Fe 238.204†	78.4	0.0030	mg/L	0.00017	3.041 µg/L	0.1702	5.60%
K 766.490†	11471.4	1.650	mg/L	0.0151	1650 µg/L	15.1	0.92%
Mg 279.077†	14681.6	3.990	mg/L	0.0428	3990 µg/L	42.8	1.07%
Mn 257.610†	10.1	0.0001	mg/L	0.00003	0.0802 µg/L	0.02644	32.99%
Mo 202.031†	-6.7	-0.0021	mg/L	0.00035	-2.083 µg/L	0.3546	17.02%
Na 589.592†	146152.0	8.430	mg/L	0.0410	8430 µg/L	41.0	0.49%
Ni 231.604†	4.3	0.0006	mg/L	0.00037	0.6292 µg/L	0.36735	58.38%
Pb 220.353†	-17.7	-0.0121	mg/L	0.00349	-12.11 µg/L	3.489	28.80%
Sb 206.836†	-4.5	-0.0090	mg/L	0.00792	-8.991 µg/L	7.9199	88.09%
Se 196.026†	2.1	0.0041	mg/L	0.00723	4.145 µg/L	7.2262	174.32%
Sn 189.927†	18.6	0.0081	mg/L	0.00502	8.082 µg/L	5.0203	62.12%
Ti 334.940†	-7.4	0.0000	mg/L	0.00004	-0.0474 µg/L	0.04369	92.13%
Tl 190.801†	-0.1	-0.0070	mg/L	0.02010	-6.955 µg/L	20.0956	288.92%
V 292.402†	7.2	0.0002	mg/L	0.00039	0.2078 µg/L	0.39147	188.41%
Zn 206.200†	169.6	0.0181	mg/L	0.00013	18.07 µg/L	0.125	0.69%
Li 670.784†	914.1	0.0049	mg/L	0.00022	4.913 µg/L	0.2151	4.38%
Sr 421.552†	81314.9	0.0678	mg/L	0.00017	67.82 µg/L	0.167	0.25%

Sequence No.: 21 **Autosampler Location: 26**
Sample ID: 1202001-41 **Date Collected: 2/9/2012 10:37:43 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: 1202001-41

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	610459.2	105.0	%	0.70				0.66%
Ag 328.068†	62.1						33.87	54.56%
Al 308.215†	-5.7	-0.0015	mg/L	0.00496	-1.528	µg/L	4.9632	324.88%
As 188.979†	4.4	0.0105	mg/L	0.00567	10.49	µg/L	5.667	54.04%
B 249.677†	52.8	0.0044	mg/L	0.00037	4.401	µg/L	0.3692	8.39%
Ba 233.527†	3.2	0.0002	mg/L	0.00012	0.1912	µg/L	0.11807	61.75%
Be 313.107†	72.2	0.0001	mg/L	0.00005	0.1012	µg/L	0.04698	46.43%
Ca 317.933†	239.0	0.0060	mg/L	0.00439	5.957	µg/L	4.3930	73.75%
Cd 214.440†	-14.1	-0.0004	mg/L	0.00013	-0.3898	µg/L	0.12929	33.17%
Co 228.616†	-11.5	-0.0019	mg/L	0.00046	-1.890	µg/L	0.4640	24.55%
Cr 205.560†	2.0	0.0003	mg/L	0.00081	0.3478	µg/L	0.80997	232.86%
Cu 327.393†	20.4	0.0006	mg/L	0.00014	0.6290	µg/L	0.14180	22.54%
Fe 238.204†	19.3	0.0007	mg/L	0.00016	0.7493	µg/L	0.15947	21.28%
K 766.490†	-83.5	-0.0120	mg/L	0.00294	-12.00	µg/L	2.938	24.48%
Mg 279.077†	27.8	0.0075	mg/L	0.00667	7.542	µg/L	6.6654	88.37%
Mn 257.610†	-59.1	-0.0005	mg/L	0.00007	-0.4667	µg/L	0.06587	14.12%
Mo 202.031†	-6.1	-0.0019	mg/L	0.00066	-1.890	µg/L	0.6645	35.17%
Na 589.592†	573.0	0.0330	mg/L	0.00333	33.05	µg/L	3.331	10.08%
Ni 231.604†	2.2	0.0003	mg/L	0.00091	0.3210	µg/L	0.91144	283.96%
Pb 220.353†	-2.9	-0.0020	mg/L	0.00387	-2.002	µg/L	3.8711	193.37%
Sb 206.836†	-11.6	-0.0189	mg/L	0.00588	-18.90	µg/L	5.883	31.13%
Se 196.026†	-2.5	-0.0049	mg/L	0.00896	-4.941	µg/L	8.9634	181.42%
Sn 189.927†	3.3	0.0073	mg/L	0.00666	7.301	µg/L	6.6600	91.23%
Ti 334.940†	-18.6	-0.0001	mg/L	0.00017	-0.1196	µg/L	0.16843	140.83%
Tl 190.801†	-5.4	-0.0615	mg/L	0.02840	-61.47	µg/L	28.399	46.20%
V 292.402†	1.1	0.0000	mg/L	0.00035	0.0310	µg/L	0.34605	>999.9%
Zn 206.200†	-17.4	-0.0019	mg/L	0.00025	-1.857	µg/L	0.2531	13.63%
Li 670.784†	-75.1	-0.0004	mg/L	0.00014	-0.4036	µg/L	0.13782	34.14%
Sr 421.552†	57.1	0.0000	mg/L	0.00004	0.0476	µg/L	0.03678	77.19%

Sequence No.: 22 **Autosampler Location: 1**

Sample ID: IBL
Analyst:
Initial Sample Wt:
Dilution:

Date Collected: 2/9/2012 10:41:23 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: IBL

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	610093.6	104.9	%	0.35				0.34%
Ag 328.068†	73.8						14.95	20.25%
Unable to evaluate QC.								
Al 308.215†	-6.8	-0.0018	mg/L	0.00658	-1.799	µg/L	6.5814	365.79%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	4.2	0.0101	mg/L	0.00312	10.10	µg/L	3.115	30.85%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	44.5	0.0037	mg/L	0.00024	3.710	µg/L	0.2429	6.55%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	8.8	0.0005	mg/L	0.00015	0.5220	µg/L	0.15114	28.95%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	62.0	0.0001	mg/L	0.00002	0.0871	µg/L	0.02110	24.23%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	8.1	0.0002	mg/L	0.00085	0.2015	µg/L	0.85300	423.38%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 214.440†	-10.3	-0.0003	mg/L	0.00004	-0.2829	µg/L	0.03513	12.42%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	-11.3	-0.0019	mg/L	0.00115	-1.861	µg/L	1.1462	61.60%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	7.3	0.0013	mg/L	0.00024	1.277	µg/L	0.2414	18.91%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 327.393†	63.9	0.0020	mg/L	0.00072	1.969	µg/L	0.7152	36.32%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	8.6	0.0003	mg/L	0.00021	0.3339	µg/L	0.20961	62.78%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	-47.6	-0.0068	mg/L	0.00979	-6.839	µg/L	9.7886	143.14%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	12.0	0.0033	mg/L	0.00161	3.252	µg/L	1.6144	49.64%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-42.0	-0.0003	mg/L	0.00003	-0.3321	µg/L	0.03017	9.09%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-3.1	-0.0010	mg/L	0.00049	-0.9695	µg/L	0.48778	50.31%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	200.5	0.0116	mg/L	0.00289	11.56	µg/L	2.894	25.03%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	8.9	0.0013	mg/L	0.00066	1.312	µg/L	0.6625	50.49%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-5.2	-0.0036	mg/L	0.00146	-3.557	µg/L	1.4615	41.09%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-5.5	-0.0090	mg/L	0.00580	-8.953	µg/L	5.8015	64.80%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-1.9	-0.0037	mg/L	0.00804	-3.747	µg/L	8.0396	214.56%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	0.6	0.0014	mg/L	0.00855	1.371	µg/L	8.5458	623.46%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	-19.5	-0.0001	mg/L	0.00025	-0.1257	µg/L	0.24757	196.97%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-6.9	-0.0794	mg/L	0.00293	-79.43	µg/L	2.932	3.69%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	0.9	0.0000	mg/L	0.00047	0.0264	µg/L	0.47005	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	-19.1	-0.0020	mg/L	0.00039	-2.033	µg/L	0.3900	19.19%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Li 670.784†	121.8	0.0007	mg/L	0.00018	0.6548	µg/L	0.17655	26.96%
QC value within limits for Li 670.784 Recovery = Not calculated								
Sr 421.552†	37.9	0.0000	mg/L	0.00000	0.0316	µg/L	0.00326	10.30%
QC value within limits for Sr 421.552 Recovery = Not calculated								

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 23
Sample ID: CCV@A/B
Analyst:

Autosampler Location: 8
Date Collected: 2/9/2012 10:45:01 AM
Data Type: Original

Na 589.592†	4445592.7	256.4 mg/L	1.07	256400 µg/L	1072.5	0.42%
QC value within limits for Na 589.592 Recovery = 102.56%						
Ni 231.604†	45.5	0.0067 mg/L	0.00259	6.715 µg/L	2.5889	38.55%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	13.8	0.0215 mg/L	0.00692	21.52 µg/L	6.921	32.16%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	140.4	-0.0223 mg/L	0.01236	-22.29 µg/L	12.356	55.43%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	69.4	0.1373 mg/L	0.01571	137.3 µg/L	15.71	11.44%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	27.0	0.0595 mg/L	0.00752	59.48 µg/L	7.520	12.64%
Ti 334.940†	947.0	0.0061 mg/L	0.00004	6.097 µg/L	0.0446	0.73%
Tl 190.801†	85.0	0.0667 mg/L	0.03874	66.65 µg/L	38.736	58.12%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	1014.6	0.0294 mg/L	0.00055	29.39 µg/L	0.553	1.88%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	51.8	0.0055 mg/L	0.00094	5.541 µg/L	0.9357	16.89%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Li 670.784†	1313.7	0.0071 mg/L	0.00024	7.059 µg/L	0.2374	3.36%
QC value within limits for Li 670.784 Recovery = Not calculated						
Sr 421.552†	452.8	0.0004 mg/L	0.00002	0.3777 µg/L	0.01917	5.08%
QC value within limits for Sr 421.552 Recovery = Not calculated						

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 11
Sample ID: IFA@3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 2/9/2012 9:56:09 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: IFA@3

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	597487.3	102.8	%	0.71				0.70%
Ag 328.068†	899.2						26.88	2.99%
Unable to evaluate QC.								
Al 308.215†	245.9	0.0654	mg/L	0.01216	65.40	µg/L	12.164	18.60%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-2.9	-0.3048	mg/L	0.00417	-304.8	µg/L	4.17	1.37%
QC value less than the lower limit for As 188.979 Recovery = Not calculated								
B 249.677†	321.9	-0.0233	mg/L	0.00184	-23.33	µg/L	1.840	7.88%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	21.4	0.0013	mg/L	0.00027	1.277	µg/L	0.2733	21.40%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-3867.1	-0.0002	mg/L	0.00009	-0.2358	µg/L	0.08854	37.55%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	811.0	0.0202	mg/L	0.00103	20.22	µg/L	1.029	5.09%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 214.440†	-1397.2	-0.0114	mg/L	0.00030	-11.44	µg/L	0.301	2.63%
QC value less than the lower limit for Cd 214.440 Recovery = Not calculated								
Co 228.616†	36.2	0.0059	mg/L	0.00083	5.942	µg/L	0.8257	13.90%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	148391.1	25.91	mg/L	0.148	25910	µg/L	147.9	0.57%
QC value less than the lower limit for Cr 205.560 Recovery = 51.82%								
Cu 327.393†	1538789.8	47.45	mg/L	0.133	47450	µg/L	132.7	0.28%
QC value greater than the upper limit for Cu 327.393 Recovery = 237.24%								
Fe 238.204†	435.1	0.0169	mg/L	0.00609	16.88	µg/L	6.085	36.05%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	304.4	0.0438	mg/L	0.00862	43.78	µg/L	8.616	19.68%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	-1291.8	-0.3511	mg/L	0.01527	-351.1	µg/L	15.27	4.35%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	6347308.4	50.16	mg/L	0.175	50160	µg/L	175.3	0.35%
QC value within limits for Mn 257.610 Recovery = 100.32%								
Mo 202.031†	10.0	0.0031	mg/L	0.00105	3.117	µg/L	1.0543	33.82%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	1738.6	0.1003	mg/L	0.01558	100.3	µg/L	15.58	15.54%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	46.9	0.0069	mg/L	0.00010	6.930	µg/L	0.1032	1.49%
QC value within limits for Ni 231.604 Recovery = Not calculated								

Pb 220.353†	122.4	0.0731 mg/L	0.00741	73.12 µg/L	7.406	10.13%
QC value greater than the upper limit for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	288.3	0.0291 mg/L	0.00665	29.09 µg/L	6.652	22.86%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	28.1	0.0556 mg/L	0.01171	55.57 µg/L	11.711	21.08%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	6.0	0.0133 mg/L	0.00404	13.29 µg/L	4.038	30.37%
Ti 334.940†	1815.0	0.0117 mg/L	0.00028	11.69 µg/L	0.283	2.42%
Tl 190.801†	8.4	0.0968 mg/L	0.01109	96.82 µg/L	11.093	11.46%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	247.0	0.0072 mg/L	0.00079	7.153 µg/L	0.7901	11.05%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	261.7	0.0098 mg/L	0.00182	9.752 µg/L	1.8195	18.66%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Li 670.784†	473.7	0.0025 mg/L	0.00004	2.545 µg/L	0.0445	1.75%
QC value within limits for Li 670.784 Recovery = Not calculated						
Sr 421.552†	-130.3	-0.0001 mg/L	0.00001	-0.1087 µg/L	0.00879	8.09%
QC value within limits for Sr 421.552 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 12
Sample ID: BB20706-BLK2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 2/9/2012 10:01:29 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20706-BLK2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	596409.9	102.6	%	0.44				0.43%
Ag 328.068†	105.9						23.78	22.45%
Al 308.215†	-8.6	-0.0023	mg/L	0.00684	-2.279	µg/L	6.8443	300.37%
As 188.979†	1.1	0.0025	mg/L	0.00379	2.532	µg/L	3.7933	149.82%
B 249.677†	89.4	0.0074	mg/L	0.00071	7.448	µg/L	0.7089	9.52%
Ba 233.527†	1.9	0.0001	mg/L	0.00016	0.1125	µg/L	0.16438	146.14%
Be 313.107†	89.4	0.0001	mg/L	0.00004	0.1256	µg/L	0.03746	29.82%
Ca 317.933†	7.7	0.0002	mg/L	0.00151	0.1930	µg/L	1.51245	783.47%
Cd 214.440†	-2.8	-0.0001	mg/L	0.00018	-0.0734	µg/L	0.17961	244.59%
Co 228.616†	-11.6	-0.0019	mg/L	0.00057	-1.911	µg/L	0.5706	29.86%
Cr 205.560†	9.7	0.0017	mg/L	0.00097	1.684	µg/L	0.9677	57.45%
Cu 327.393†	416.9	0.0129	mg/L	0.00221	12.86	µg/L	2.214	17.22%
Fe 238.204†	48.3	0.0019	mg/L	0.00011	1.873	µg/L	0.1078	5.76%
K 766.490†	-29.1	-0.0042	mg/L	0.00307	-4.187	µg/L	3.0706	73.34%
Mg 279.077†	17.9	0.0049	mg/L	0.00259	4.853	µg/L	2.5895	53.35%
Mn 257.610†	198.6	0.0016	mg/L	0.00036	1.570	µg/L	0.3634	23.16%
Mo 202.031†	-2.2	-0.0007	mg/L	0.00208	-0.6723	µg/L	2.07776	309.07%
Na 589.592†	175.1	0.0101	mg/L	0.00090	10.10	µg/L	0.902	8.93%
Ni 231.604†	14.8	0.0022	mg/L	0.00066	2.180	µg/L	0.6613	30.34%
Pb 220.353†	-0.3	-0.0002	mg/L	0.00357	-0.2187	µg/L	3.56638	>999.9%
Sb 206.836†	-6.3	-0.0103	mg/L	0.00539	-10.29	µg/L	5.394	52.41%
Se 196.026†	0.4	0.0008	mg/L	0.00575	0.7712	µg/L	5.75341	746.06%
Sn 189.927†	0.8	0.0017	mg/L	0.00357	1.675	µg/L	3.5712	213.24%
Ti 334.940†	-4.8	0.0000	mg/L	0.00015	-0.0310	µg/L	0.15231	491.11%
Tl 190.801†	-5.4	-0.0619	mg/L	0.01158	-61.92	µg/L	11.578	18.70%
V 292.402†	-3.6	-0.0001	mg/L	0.00034	-0.1044	µg/L	0.34372	329.11%
Zn 206.200†	-12.3	-0.0013	mg/L	0.00017	-1.313	µg/L	0.1685	12.84%
Li 670.784†	81.2	0.0004	mg/L	0.00052	0.4365	µg/L	0.51842	118.78%
Sr 421.552†	21.3	0.0000	mg/L	0.00000	0.0178	µg/L	0.00491	27.59%

Sequence No.: 13
Sample ID: BB20706-BS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 2/9/2012 10:05:10 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20706-BS2

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

Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCV@A/B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	601378.5	103.4	%	0.33				0.32%
Ag 328.068†	-192.7						17.12	8.89%
Al 308.215†	36354.7	9.646	mg/L	0.0537	9646	µg/L	53.7	0.56%
QC value within limits for Al 308.215 Recovery = 96.46%								
As 188.979†	2047.4	4.879	mg/L	0.0242	4879	µg/L	24.2	0.50%
QC value within limits for As 188.979 Recovery = 97.59%								
B 249.677†	29356.2	2.442	mg/L	0.0161	2442	µg/L	16.1	0.66%
QC value within limits for B 249.677 Recovery = 97.66%								
Ba 233.527†	40842.0	2.436	mg/L	0.0133	2436	µg/L	13.3	0.54%
QC value within limits for Ba 233.527 Recovery = 97.44%								
Be 313.107†	1769529.3	2.480	mg/L	0.0013	2480	µg/L	1.3	0.05%
QC value within limits for Be 313.107 Recovery = 99.20%								
Ca 317.933†	992145.4	24.73	mg/L	0.032	24730	µg/L	32.4	0.13%
QC value within limits for Ca 317.933 Recovery = 98.93%								
Cd 214.440†	87284.4	2.415	mg/L	0.0118	2415	µg/L	11.8	0.49%
QC value within limits for Cd 214.440 Recovery = 96.60%								
Co 228.616†	14787.7	2.430	mg/L	0.0150	2430	µg/L	15.0	0.62%
QC value within limits for Co 228.616 Recovery = 97.21%								
Cr 205.560†	28274.1	4.936	mg/L	0.0343	4936	µg/L	34.3	0.69%
QC value within limits for Cr 205.560 Recovery = 98.71%								
Cu 327.393†	160189.8	4.937	mg/L	0.0371	4937	µg/L	37.1	0.75%
QC value within limits for Cu 327.393 Recovery = 98.75%								
Fe 238.204†	252915.6	9.812	mg/L	0.0538	9812	µg/L	53.8	0.55%
QC value within limits for Fe 238.204 Recovery = 98.12%								
K 766.490†	167181.7	24.04	mg/L	0.227	24040	µg/L	227.4	0.95%
QC value within limits for K 766.490 Recovery = 96.17%								
Mg 279.077†	89908.9	24.44	mg/L	0.108	24440	µg/L	108.5	0.44%
QC value within limits for Mg 279.077 Recovery = 97.74%								
Mn 257.610†	622353.8	4.918	mg/L	0.0027	4918	µg/L	2.7	0.06%
QC value within limits for Mn 257.610 Recovery = 98.36%								
Mo 202.031†	1595.3	0.4958	mg/L	0.00326	495.8	µg/L	3.26	0.66%
QC value within limits for Mo 202.031 Recovery = 99.15%								
Na 589.592†	426170.1	24.58	mg/L	0.027	24580	µg/L	26.8	0.11%
QC value within limits for Na 589.592 Recovery = 98.32%								
Ni 231.604†	33473.5	4.946	mg/L	0.0288	4946	µg/L	28.8	0.58%
QC value within limits for Ni 231.604 Recovery = 98.91%								
Pb 220.353†	3522.2	2.397	mg/L	0.0036	2397	µg/L	3.6	0.15%
QC value within limits for Pb 220.353 Recovery = 95.89%								
Sb 206.836†	1593.6	2.471	mg/L	0.0018	2471	µg/L	1.8	0.07%
QC value within limits for Sb 206.836 Recovery = 98.84%								
Se 196.026†	1260.3	2.493	mg/L	0.0158	2493	µg/L	15.8	0.63%
QC value within limits for Se 196.026 Recovery = 99.71%								
Sn 189.927†	1148.7	2.497	mg/L	0.0171	2497	µg/L	17.1	0.68%
QC value within limits for Sn 189.927 Recovery = 99.88%								
Ti 334.940†	77806.4	0.5009	mg/L	0.00317	500.9	µg/L	3.17	0.63%
QC value within limits for Ti 334.940 Recovery = 100.19%								
Tl 190.801†	218.5	2.411	mg/L	0.0304	2411	µg/L	30.4	1.26%
QC value within limits for Tl 190.801 Recovery = 96.43%								
V 292.402†	42658.6	1.236	mg/L	0.0093	1236	µg/L	9.3	0.76%
QC value within limits for V 292.402 Recovery = 98.85%								
Zn 206.200†	92594.4	9.866	mg/L	0.0431	9866	µg/L	43.1	0.44%
QC value within limits for Zn 206.200 Recovery = 98.66%								
Li 670.784†	444304.9	2.388	mg/L	0.0066	2388	µg/L	6.6	0.28%
QC value within limits for Li 670.784 Recovery = 95.51%								
Sr 421.552†	2905478.5	2.423	mg/L	0.0029	2423	µg/L	2.9	0.12%
QC value within limits for Sr 421.552 Recovery = 96.93%								

All analyte(s) passed QC.

Sequence No.: 24 Autosampler Location: 27
Sample ID: 1202001-42 Date Collected: 2/9/2012 10:49:01 AM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: 1202001-42

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	616092.4	106.0	%	0.76				0.72%
Ag 328.068†	25.4						37.85	149.12%
Al 308.215†	-25.8	-0.0293	mg/L	0.00770	-29.32	µg/L	7.697	26.26%
As 188.979†	5.6	0.0152	mg/L	0.00185	15.24	µg/L	1.851	12.14%
B 249.677†	446.9	0.0372	mg/L	0.00240	37.24	µg/L	2.402	6.45%
Ba 233.527†	1601.6	0.0955	mg/L	0.00105	95.53	µg/L	1.046	1.09%
Be 313.107†	241.4	0.0003	mg/L	0.00007	0.3390	µg/L	0.06558	19.34%
Ca 317.933†	937105.3	23.36	mg/L	0.104	23360	µg/L	103.7	0.44%
Cd 214.440†	-10.7	-0.0003	mg/L	0.00009	-0.2867	µg/L	0.09359	32.64%
Co 228.616†	-8.9	-0.0015	mg/L	0.00021	-1.454	µg/L	0.2132	14.66%
Cr 205.560†	22.2	0.0039	mg/L	0.00037	3.869	µg/L	0.3703	9.57%
Cu 327.393†	688.2	0.0194	mg/L	0.00107	19.45	µg/L	1.066	5.48%
Fe 238.204†	87.2	0.0034	mg/L	0.00084	3.385	µg/L	0.8430	24.91%
K 766.490†	11361.2	1.634	mg/L	0.0208	1634	µg/L	20.8	1.27%
Mg 279.077†	14654.4	3.983	mg/L	0.0368	3983	µg/L	36.8	0.92%
Mn 257.610†	55.1	0.0004	mg/L	0.00029	0.4354	µg/L	0.28807	66.16%
Mo 202.031†	-4.2	-0.0013	mg/L	0.00093	-1.319	µg/L	0.9337	70.81%
Na 589.592†	143397.6	8.271	mg/L	0.0093	8271	µg/L	9.3	0.11%
Ni 231.604†	9.1	0.0013	mg/L	0.00039	1.347	µg/L	0.3949	29.32%
Pb 220.353†	-22.3	-0.0152	mg/L	0.00381	-15.23	µg/L	3.808	25.01%
Sb 206.836†	-3.1	-0.0066	mg/L	0.00231	-6.620	µg/L	2.3082	34.87%
Se 196.026†	2.9	0.0057	mg/L	0.00300	5.676	µg/L	3.0027	52.90%
Sn 189.927†	19.1	0.0093	mg/L	0.00370	9.289	µg/L	3.7023	39.86%
Ti 334.940†	-22.2	-0.0001	mg/L	0.00008	-0.1430	µg/L	0.08008	56.00%
Tl 190.801†	2.0	0.0164	mg/L	0.01001	16.37	µg/L	10.010	61.13%
V 292.402†	23.5	0.0007	mg/L	0.00028	0.6799	µg/L	0.28433	41.82%
Zn 206.200†	86.2	0.0092	mg/L	0.00078	9.183	µg/L	0.7813	8.51%
Li 670.784†	938.2	0.0050	mg/L	0.00004	5.042	µg/L	0.0443	0.88%
Sr 421.552†	71647.9	0.0598	mg/L	0.00003	59.76	µg/L	0.027	0.04%

Sequence No.: 25
Sample ID: BB20706-DUP4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 2/9/2012 10:52:45 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20706-DUP4

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	620525.8	106.7	%	0.90				0.84%
Ag 328.068†	20.1						28.73	142.84%
Al 308.215†	-20.7	-0.0278	mg/L	0.00241	-27.83	µg/L	2.409	8.66%
As 188.979†	6.5	0.0174	mg/L	0.01247	17.45	µg/L	12.468	71.46%
B 249.677†	359.7	0.0300	mg/L	0.00090	29.98	µg/L	0.897	2.99%
Ba 233.527†	1592.4	0.0950	mg/L	0.00031	94.98	µg/L	0.305	0.32%
Be 313.107†	116.6	0.0002	mg/L	0.00002	0.1640	µg/L	0.02273	13.86%
Ca 317.933†	931664.8	23.22	mg/L	0.167	23220	µg/L	166.5	0.72%
Cd 214.440†	-22.1	-0.0006	mg/L	0.00022	-0.6015	µg/L	0.22066	36.68%
Co 228.616†	-10.8	-0.0018	mg/L	0.00087	-1.782	µg/L	0.8744	49.06%
Cr 205.560†	18.2	0.0032	mg/L	0.00027	3.178	µg/L	0.2690	8.46%
Cu 327.393†	634.5	0.0178	mg/L	0.00094	17.80	µg/L	0.941	5.29%
Fe 238.204†	53.8	0.0021	mg/L	0.00014	2.089	µg/L	0.1443	6.91%
K 766.490†	11269.2	1.621	mg/L	0.0264	1621	µg/L	26.4	1.63%
Mg 279.077†	14587.2	3.964	mg/L	0.0376	3964	µg/L	37.6	0.95%
Mn 257.610†	-5.9	0.0000	mg/L	0.00007	-0.0465	µg/L	0.07258	156.03%
Mo 202.031†	-4.7	-0.0015	mg/L	0.00123	-1.473	µg/L	1.2282	83.36%
Na 589.592†	142561.1	8.223	mg/L	0.0182	8223	µg/L	18.2	0.22%
Ni 231.604†	3.6	0.0005	mg/L	0.00074	0.5256	µg/L	0.73998	140.79%
Pb 220.353†	-24.1	-0.0165	mg/L	0.00404	-16.47	µg/L	4.039	24.53%
Sb 206.836†	-1.5	-0.0040	mg/L	0.00661	-3.990	µg/L	6.6098	165.65%
Se 196.026†	-1.2	-0.0023	mg/L	0.00688	-2.310	µg/L	6.8752	297.64%
Sn 189.927†	19.3	0.0101	mg/L	0.00281	10.07	µg/L	2.808	27.89%
Ti 334.940†	-19.7	-0.0001	mg/L	0.00013	-0.1270	µg/L	0.13119	103.30%
Tl 190.801†	-1.2	-0.0200	mg/L	0.03080	-20.02	µg/L	30.796	153.81%
V 292.402†	11.0	0.0003	mg/L	0.00011	0.3188	µg/L	0.11183	35.08%
Zn 206.200†	69.3	0.0074	mg/L	0.00023	7.381	µg/L	0.2334	3.16%

Li 670.784†	902.4	0.0048	mg/L	0.00029	4.849	µg/L	0.2905	5.99%
Sr 421.552†	70998.1	0.0592	mg/L	0.00008	59.21	µg/L	0.085	0.14%

Sequence No.: 26
Sample ID: 1202001-43
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 2/9/2012 10:56:21 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202001-43

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	622986.2	107.1	%	0.15				0.14%
Ag 328.068†	-2.4						22.77	968.13%
Al 308.215†	4.6	-0.0105	mg/L	0.00812	-10.48	µg/L	8.122	77.48%
As 188.979†	5.8	0.0145	mg/L	0.00317	14.51	µg/L	3.172	21.86%
B 249.677†	185.0	0.0154	mg/L	0.00050	15.42	µg/L	0.499	3.24%
Ba 233.527†	1599.3	0.0954	mg/L	0.00073	95.39	µg/L	0.729	0.76%
Be 313.107†	107.1	0.0002	mg/L	0.00004	0.1504	µg/L	0.04221	28.05%
Ca 317.933†	487844.1	12.16	mg/L	0.021	12160	µg/L	21.0	0.17%
Cd 214.440†	-22.8	-0.0006	mg/L	0.00005	-0.5942	µg/L	0.04591	7.73%
Co 228.616†	-14.0	-0.0023	mg/L	0.00120	-2.296	µg/L	1.2037	52.42%
Cr 205.560†	10.5	0.0018	mg/L	0.00103	1.834	µg/L	1.0276	56.03%
Cu 327.393†	3780.0	0.1156	mg/L	0.00110	115.6	µg/L	1.10	0.95%
Fe 238.204†	120.7	0.0047	mg/L	0.00244	4.684	µg/L	2.4403	52.10%
K 766.490†	4753.7	0.6837	mg/L	0.00278	683.7	µg/L	2.78	0.41%
Mg 279.077†	6796.8	1.847	mg/L	0.0114	1847	µg/L	11.4	0.62%
Mn 257.610†	-15.8	-0.0001	mg/L	0.00028	-0.1249	µg/L	0.27825	222.81%
Mo 202.031†	-1.9	-0.0006	mg/L	0.00136	-0.6053	µg/L	1.35605	224.04%
Na 589.592†	114111.2	6.582	mg/L	0.0228	6582	µg/L	22.8	0.35%
Ni 231.604†	5.6	0.0008	mg/L	0.00065	0.8286	µg/L	0.64666	78.04%
Pb 220.353†	-7.8	-0.0054	mg/L	0.00440	-5.356	µg/L	4.4046	82.23%
Sb 206.836†	-11.8	-0.0200	mg/L	0.00759	-19.99	µg/L	7.592	37.98%
Se 196.026†	2.0	0.0040	mg/L	0.00434	4.032	µg/L	4.3362	107.56%
Sn 189.927†	10.8	0.0067	mg/L	0.00211	6.719	µg/L	2.1067	31.35%
Ti 334.940†	1.3	0.0000	mg/L	0.00014	0.0086	µg/L	0.13960	>999.9%
Tl 190.801†	-3.6	-0.0444	mg/L	0.01364	-44.45	µg/L	13.641	30.69%
V 292.402†	6.4	0.0002	mg/L	0.00025	0.1851	µg/L	0.25271	136.54%
Zn 206.200†	246.6	0.0263	mg/L	0.00059	26.28	µg/L	0.591	2.25%
Li 670.784†	379.7	0.0020	mg/L	0.00028	2.040	µg/L	0.2810	13.77%
Sr 421.552†	47718.9	0.0398	mg/L	0.00014	39.80	µg/L	0.144	0.36%

Sequence No.: 27
Sample ID: 1202001-44
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 2/9/2012 10:59:55 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202001-44

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	615823.8	105.9	%	1.21				1.14%
Ag 328.068†	-35.3						11.35	32.19%
Al 308.215†	-7.1	-0.0240	mg/L	0.00115	-24.02	µg/L	1.147	4.78%
As 188.979†	8.0	0.0209	mg/L	0.00404	20.89	µg/L	4.038	19.33%
B 249.677†	303.3	0.0253	mg/L	0.00123	25.27	µg/L	1.227	4.85%
Ba 233.527†	1573.4	0.0938	mg/L	0.00114	93.84	µg/L	1.137	1.21%
Be 313.107†	84.9	0.0001	mg/L	0.00003	0.1197	µg/L	0.03031	25.31%
Ca 317.933†	923289.2	23.02	mg/L	0.206	23020	µg/L	205.9	0.89%
Cd 214.440†	-20.1	-0.0005	mg/L	0.00009	-0.5413	µg/L	0.09317	17.21%
Co 228.616†	-7.5	-0.0012	mg/L	0.00010	-1.239	µg/L	0.0972	7.85%
Cr 205.560†	21.6	0.0038	mg/L	0.00025	3.765	µg/L	0.2481	6.59%
Cu 327.393†	1212.3	0.0356	mg/L	0.00128	35.63	µg/L	1.285	3.61%
Fe 238.204†	191.4	0.0074	mg/L	0.00039	7.427	µg/L	0.3896	5.25%
K 766.490†	11054.7	1.590	mg/L	0.0280	1590	µg/L	28.0	1.76%
Mg 279.077†	14364.7	3.904	mg/L	0.0573	3904	µg/L	57.3	1.47%
Mn 257.610†	93.3	0.0007	mg/L	0.00008	0.7373	µg/L	0.08397	11.39%
Mo 202.031†	-1.2	-0.0004	mg/L	0.00162	-0.3592	µg/L	1.62146	451.39%

Na 589.592†	140528.8	8.105	mg/L	0.0395	8105	µg/L	39.5	0.49%
Ni 231.604†	-3.1	-0.0005	mg/L	0.00076	-0.4632	µg/L	0.76287	164.71%
Pb 220.353†	-17.7	-0.0120	mg/L	0.00423	-12.05	µg/L	4.227	35.08%
Sb 206.836†	-4.5	-0.0090	mg/L	0.00718	-8.970	µg/L	7.1765	80.01%
Se 196.026†	-1.6	-0.0031	mg/L	0.00735	-3.089	µg/L	7.3545	238.11%
Sn 189.927†	16.8	0.0047	mg/L	0.01186	4.718	µg/L	11.8595	251.36%
Ti 334.940†	-6.3	0.0000	mg/L	0.00027	-0.0405	µg/L	0.26527	654.83%
Tl 190.801†	-0.6	-0.0127	mg/L	0.03090	-12.72	µg/L	30.903	242.98%
V 292.402†	13.1	0.0004	mg/L	0.00024	0.3798	µg/L	0.24062	63.36%
Zn 206.200†	126.2	0.0134	mg/L	0.00016	13.45	µg/L	0.157	1.16%
Li 670.784†	734.4	0.0039	mg/L	0.00034	3.947	µg/L	0.3387	8.58%
Sr 421.552†	69919.7	0.0583	mg/L	0.00018	58.31	µg/L	0.178	0.30%

Sequence No.: 28
Sample ID: BB20706-MS4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 2/9/2012 11:03:33 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20706-MS4

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	617333.3	106.2	%	0.59				0.56%
Ag 328.068†	2423.4						3.29	0.14%
Al 308.215†	7309.8	1.913	mg/L	0.0073	1913	µg/L	7.3	0.38%
As 188.979†	214.0	0.5195	mg/L	0.01877	519.5	µg/L	18.77	3.61%
B 249.677†	6205.3	0.5166	mg/L	0.00463	516.6	µg/L	4.63	0.90%
Ba 233.527†	34735.7	2.072	mg/L	0.0115	2072	µg/L	11.5	0.56%
Be 313.107†	36214.1	0.0508	mg/L	0.00016	50.83	µg/L	0.164	0.32%
Ca 317.933†	1308569.8	32.62	mg/L	0.165	32620	µg/L	165.5	0.51%
Cd 214.440†	1671.9	0.0461	mg/L	0.00049	46.12	µg/L	0.491	1.07%
Co 228.616†	2945.6	0.4841	mg/L	0.00291	484.1	µg/L	2.91	0.60%
Cr 205.560†	2864.4	0.5006	mg/L	0.00426	500.6	µg/L	4.26	0.85%
Cu 327.393†	17330.1	0.5319	mg/L	0.00187	531.9	µg/L	1.87	0.35%
Fe 238.204†	127829.3	4.959	mg/L	0.0252	4959	µg/L	25.2	0.51%
K 766.490†	145831.2	20.97	mg/L	0.089	20970	µg/L	89.5	0.43%
Mg 279.077†	50329.8	13.68	mg/L	0.068	13680	µg/L	68.2	0.50%
Mn 257.610†	63629.9	0.5028	mg/L	0.00193	502.8	µg/L	1.93	0.38%
Mo 202.031†	1612.2	0.5010	mg/L	0.00385	501.0	µg/L	3.85	0.77%
Na 589.592†	310804.0	17.93	mg/L	0.104	17930	µg/L	104.3	0.58%
Ni 231.604†	3316.8	0.4901	mg/L	0.00354	490.1	µg/L	3.54	0.72%
Pb 220.353†	655.3	0.4467	mg/L	0.01401	446.7	µg/L	14.01	3.14%
Sb 206.836†	331.8	0.5193	mg/L	0.00418	519.3	µg/L	4.18	0.80%
Se 196.026†	254.1	0.5025	mg/L	0.00649	502.5	µg/L	6.49	1.29%
Sn 189.927†	256.9	0.5204	mg/L	0.01003	520.4	µg/L	10.03	1.93%
Ti 334.940†	79759.7	0.5135	mg/L	0.00296	513.5	µg/L	2.96	0.58%
Tl 190.801†	49.3	0.5263	mg/L	0.01194	526.3	µg/L	11.94	2.27%
V 292.402†	17094.7	0.4951	mg/L	0.00086	495.1	µg/L	0.86	0.17%
Zn 206.200†	4724.1	0.5030	mg/L	0.00309	503.0	µg/L	3.09	0.62%
Li 670.784†	89525.3	0.4811	mg/L	0.00238	481.1	µg/L	2.38	0.50%
Sr 421.552†	658246.1	0.5490	mg/L	0.00272	549.0	µg/L	2.72	0.50%

Sequence No.: 29
Sample ID: 1202001-45
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 2/9/2012 11:07:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202001-45

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	619334.8	106.5	%	0.64				0.60%
Ag 328.068†	24.0						8.71	36.27%
Al 308.215†	7.1	-0.0208	mg/L	0.00292	-20.83	µg/L	2.924	14.04%
As 188.979†	6.6	0.0177	mg/L	0.00400	17.73	µg/L	4.004	22.59%
B 249.677†	326.2	0.0272	mg/L	0.00056	27.19	µg/L	0.559	2.05%
Ba 233.527†	1757.4	0.1048	mg/L	0.00068	104.8	µg/L	0.68	0.65%
Be 313.107†	83.1	0.0001	mg/L	0.00003	0.1171	µg/L	0.02946	25.16%

Ca 317.933†	947433.3	23.62	mg/L	0.130	23620	µg/L	129.8	0.55%
Cd 214.440†	-23.0	-0.0006	mg/L	0.00007	-0.6264	µg/L	0.06567	10.48%
Co 228.616†	-10.1	-0.0017	mg/L	0.00052	-1.656	µg/L	0.5181	31.29%
Cr 205.560†	21.3	0.0037	mg/L	0.00081	3.722	µg/L	0.8114	21.80%
Cu 327.393†	976.3	0.0283	mg/L	0.00116	28.31	µg/L	1.159	4.10%
Fe 238.204†	182.9	0.0071	mg/L	0.00041	7.095	µg/L	0.4095	5.77%
K 766.490†	11520.5	1.657	mg/L	0.0169	1657	µg/L	16.9	1.02%
Mg 279.077†	14726.7	4.002	mg/L	0.0398	4002	µg/L	39.8	0.99%
Mn 257.610†	38.2	0.0003	mg/L	0.00009	0.3020	µg/L	0.09289	30.76%
Mo 202.031†	-4.8	-0.0015	mg/L	0.00039	-1.493	µg/L	0.3877	25.98%
Na 589.592†	147033.1	8.481	mg/L	0.0535	8481	µg/L	53.5	0.63%
Ni 231.604†	2.8	0.0004	mg/L	0.00105	0.4083	µg/L	1.04816	256.68%
Pb 220.353†	-23.5	-0.0161	mg/L	0.00284	-16.07	µg/L	2.840	17.67%
Sb 206.836†	-11.9	-0.0210	mg/L	0.00549	-21.05	µg/L	5.490	26.09%
Se 196.026†	2.5	0.0049	mg/L	0.00122	4.921	µg/L	1.2227	24.85%
Sn 189.927†	19.3	0.0094	mg/L	0.00470	9.405	µg/L	4.6998	49.97%
Ti 334.940†	-22.8	-0.0001	mg/L	0.00011	-0.1466	µg/L	0.11167	76.16%
Tl 190.801†	0.3	-0.0031	mg/L	0.01840	-3.096	µg/L	18.4038	594.52%
V 292.402†	12.2	0.0004	mg/L	0.00043	0.3531	µg/L	0.42590	120.63%
Zn 206.200†	126.7	0.0135	mg/L	0.00017	13.51	µg/L	0.169	1.25%
Li 670.784†	895.3	0.0048	mg/L	0.00017	4.811	µg/L	0.1745	3.63%
Sr 421.552†	81785.1	0.0682	mg/L	0.00037	68.21	µg/L	0.368	0.54%

Sequence No.: 30
Sample ID: 1202001-46
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 2/9/2012 11:10:55 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202001-46

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	618245.8	106.3	%	0.49				0.46%
Ag 328.068†	9.5						34.50	364.95%
Al 308.215†	-14.1	-0.0038	mg/L	0.00662	-3.759	µg/L	6.6243	176.21%
As 188.979†	1.5	0.0037	mg/L	0.00472	3.701	µg/L	4.7229	127.61%
B 249.677†	56.1	0.0047	mg/L	0.00042	4.679	µg/L	0.4240	9.06%
Ba 233.527†	-0.3	0.0000	mg/L	0.00013	-0.0205	µg/L	0.12613	614.51%
Be 313.107†	14.5	0.0000	mg/L	0.00003	0.0206	µg/L	0.03213	155.72%
Ca 317.933†	165.5	0.0041	mg/L	0.00158	4.125	µg/L	1.5849	38.42%
Cd 214.440†	-21.6	-0.0006	mg/L	0.00020	-0.5944	µg/L	0.19753	33.23%
Co 228.616†	-12.4	-0.0020	mg/L	0.00051	-2.034	µg/L	0.5084	24.99%
Cr 205.560†	7.0	0.0012	mg/L	0.00061	1.231	µg/L	0.6113	49.68%
Cu 327.393†	3.2	0.0001	mg/L	0.00057	0.0992	µg/L	0.56817	573.03%
Fe 238.204†	21.6	0.0008	mg/L	0.00024	0.8362	µg/L	0.23669	28.31%
K 766.490†	-198.7	-0.0286	mg/L	0.00689	-28.58	µg/L	6.888	24.10%
Mg 279.077†	30.3	0.0082	mg/L	0.00155	8.222	µg/L	1.5455	18.80%
Mn 257.610†	-74.6	-0.0006	mg/L	0.00004	-0.5898	µg/L	0.04437	7.52%
Mo 202.031†	-0.9	-0.0003	mg/L	0.00054	-0.2934	µg/L	0.53578	182.58%
Na 589.592†	72.7	0.0042	mg/L	0.00285	4.195	µg/L	2.8528	68.00%
Ni 231.604†	2.9	0.0004	mg/L	0.00047	0.4289	µg/L	0.47120	109.87%
Pb 220.353†	-1.4	-0.0009	mg/L	0.00355	-0.9420	µg/L	3.55048	376.91%
Sb 206.836†	-12.0	-0.0195	mg/L	0.00771	-19.47	µg/L	7.712	39.60%
Se 196.026†	-2.6	-0.0051	mg/L	0.01070	-5.075	µg/L	10.6965	210.77%
Sn 189.927†	-1.7	-0.0036	mg/L	0.00554	-3.648	µg/L	5.5404	151.88%
Ti 334.940†	-47.6	-0.0003	mg/L	0.00020	-0.3068	µg/L	0.20374	66.42%
Tl 190.801†	-5.1	-0.0578	mg/L	0.01300	-57.80	µg/L	12.996	22.48%
V 292.402†	2.1	0.0001	mg/L	0.00036	0.0598	µg/L	0.36295	606.51%
Zn 206.200†	-17.2	-0.0018	mg/L	0.00014	-1.838	µg/L	0.1383	7.53%
Li 670.784†	-149.3	-0.0008	mg/L	0.00018	-0.8021	µg/L	0.17921	22.34%
Sr 421.552†	6.9	0.0000	mg/L	0.00003	0.0058	µg/L	0.02951	509.48%

Sequence No.: 31
Sample ID: 1202001-51
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 34
Date Collected: 2/9/2012 11:14:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202001-51

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	622021.0	107.0	%	0.40				0.37%
Ag 328.068†	49.8						39.11	78.61%
Al 308.215†	3.8	-0.0018	mg/L	0.00931	-1.844	µg/L	9.3119	505.01%
As 188.979†	0.0	0.0004	mg/L	0.00452	0.3620	µg/L	4.51631	>999.9%
B 249.677†	96.8	0.0081	mg/L	0.00022	8.065	µg/L	0.2187	2.71%
Ba 233.527†	4791.5	0.2858	mg/L	0.00167	285.8	µg/L	1.67	0.59%
Be 313.107†	73.4	0.0001	mg/L	0.00003	0.1030	µg/L	0.03229	31.33%
Ca 317.933†	119011.9	2.967	mg/L	0.0093	2967	µg/L	9.3	0.31%
Cd 214.440†	-19.7	-0.0005	mg/L	0.00014	-0.5445	µg/L	0.14484	26.60%
Co 228.616†	-13.0	-0.0021	mg/L	0.00084	-2.138	µg/L	0.8385	39.21%
Cr 205.560†	6.6	0.0011	mg/L	0.00032	1.144	µg/L	0.3184	27.82%
Cu 327.393†	-18.8	-0.0008	mg/L	0.00021	-0.8051	µg/L	0.20949	26.02%
Fe 238.204†	40.8	0.0016	mg/L	0.00027	1.583	µg/L	0.2666	16.84%
K 766.490†	2626.7	0.3778	mg/L	0.00449	377.8	µg/L	4.49	1.19%
Mg 279.077†	2333.1	0.6341	mg/L	0.00694	634.1	µg/L	6.94	1.09%
Mn 257.610†	68.0	0.0005	mg/L	0.00004	0.5371	µg/L	0.03850	7.17%
Mo 202.031†	-0.5	-0.0002	mg/L	0.00100	-0.1581	µg/L	1.00240	634.00%
Na 589.592†	136941.8	7.898	mg/L	0.0464	7898	µg/L	46.4	0.59%
Ni 231.604†	5.7	0.0008	mg/L	0.00080	0.8371	µg/L	0.79958	95.52%
Pb 220.353†	0.8	0.0006	mg/L	0.00163	0.5617	µg/L	1.63037	290.27%
Sb 206.836†	-15.6	-0.0257	mg/L	0.00410	-25.66	µg/L	4.101	15.98%
Se 196.026†	-3.3	-0.0065	mg/L	0.00779	-6.548	µg/L	7.7914	118.99%
Sn 189.927†	1.1	-0.0018	mg/L	0.00039	-1.808	µg/L	0.3871	21.41%
Ti 334.940†	-44.7	-0.0003	mg/L	0.00013	-0.2880	µg/L	0.12724	44.18%
Tl 190.801†	-5.6	-0.0653	mg/L	0.04130	-65.30	µg/L	41.301	63.25%
V 292.402†	-10.7	-0.0003	mg/L	0.00046	-0.3113	µg/L	0.45820	147.20%
Zn 206.200†	109.1	0.0116	mg/L	0.00043	11.62	µg/L	0.430	3.70%
Li 670.784†	3840.6	0.0206	mg/L	0.00020	20.64	µg/L	0.198	0.96%
Sr 421.552†	273620.7	0.2282	mg/L	0.00125	228.2	µg/L	1.25	0.55%

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Sequence No.: 32
Sample ID: IBL
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/9/2012 11:18:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: IBL

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	611363.7	105.1	%	1.07				1.01%
Ag 328.068†	53.3						12.09	22.70%
Unable to evaluate QC.								
Al 308.215†	-21.9	-0.0058	mg/L	0.00309	-5.818	µg/L	3.0897	53.10%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	1.9	0.0046	mg/L	0.00215	4.568	µg/L	2.1510	47.09%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	40.1	0.0033	mg/L	0.00045	3.342	µg/L	0.4546	13.60%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	1.8	0.0001	mg/L	0.00008	0.1065	µg/L	0.08298	77.94%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	58.5	0.0001	mg/L	0.00001	0.0821	µg/L	0.01424	17.35%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-32.2	-0.0008	mg/L	0.00141	-0.8018	µg/L	1.41289	176.20%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 214.440†	-14.4	-0.0004	mg/L	0.00009	-0.3953	µg/L	0.08833	22.34%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	-10.0	-0.0016	mg/L	0.00087	-1.648	µg/L	0.8717	52.90%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	4.9	0.0009	mg/L	0.00062	0.8551	µg/L	0.61798	72.27%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 327.393†	-15.6	-0.0005	mg/L	0.00044	-0.4815	µg/L	0.44330	92.07%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	13.8	0.0005	mg/L	0.00017	0.5373	µg/L	0.16557	30.82%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	-47.9	-0.0069	mg/L	0.00522	-6.889	µg/L	5.2191	75.76%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	21.3	0.0058	mg/L	0.00220	5.780	µg/L	2.2033	38.12%

QC value within limits for Mg 279.077 Recovery = Not calculated

Mn 257.610†	-48.2	-0.0004	mg/L	0.00005	-0.3807	µg/L	0.05287 13.89%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031†	-2.2	-0.0007	mg/L	0.00153	-0.6935	µg/L	1.52744 220.25%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592†	141.1	0.0081	mg/L	0.00490	8.141	µg/L	4.8959 60.14%

QC value within limits for Na 589.592 Recovery = Not calculated

Ni 231.604†	10.6	0.0016	mg/L	0.00062	1.573	µg/L	0.6165 39.20%

QC value within limits for Ni 231.604 Recovery = Not calculated

Pb 220.353†	1.1	0.0008	mg/L	0.00168	0.7500	µg/L	1.68481 224.64%

QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.836†	-6.9	-0.0111	mg/L	0.00604	-11.14	µg/L	6.035 54.15%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026†	-3.7	-0.0073	mg/L	0.00758	-7.272	µg/L	7.5770 104.19%

QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.927†	0.9	0.0019	mg/L	0.00862	1.942	µg/L	8.6153 443.60%

QC value within limits for Sn 189.927 Recovery = Not calculated

Ti 334.940†	-26.9	-0.0002	mg/L	0.00005	-0.1730	µg/L	0.05107 29.53%

QC value within limits for Ti 334.940 Recovery = Not calculated

Tl 190.801†	-5.8	-0.0664	mg/L	0.01864	-66.38	µg/L	18.642 28.08%

QC value within limits for Tl 190.801 Recovery = Not calculated

V 292.402†	-11.6	-0.0003	mg/L	0.00018	-0.3352	µg/L	0.18431 54.98%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 206.200†	-14.5	-0.0015	mg/L	0.00049	-1.541	µg/L	0.4931 31.99%

QC value within limits for Zn 206.200 Recovery = Not calculated

Li 670.784†	32.8	0.0002	mg/L	0.00038	0.1761	µg/L	0.38266 217.25%

QC value within limits for Li 670.784 Recovery = Not calculated

Sr 421.552†	17.3	0.0000	mg/L	0.00003	0.0144	µg/L	0.02575 178.64%

QC value within limits for Sr 421.552 Recovery = Not calculated

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 33
Sample ID: CCV@A/B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/9/2012 11:21:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV@A/B

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	592232.7	101.8	%	0.33				0.32%
Ag 328.068†	-270.1						50.15	18.57%
Al 308.215†	36021.9	9.558	mg/L	0.0243	9558	µg/L	24.3	0.25%
QC value within limits for Al 308.215 Recovery = 95.58%								
As 188.979†	2038.3	4.858	mg/L	0.0129	4858	µg/L	12.9	0.27%
QC value within limits for As 188.979 Recovery = 97.16%								
B 249.677†	29186.0	2.427	mg/L	0.0174	2427	µg/L	17.4	0.72%
QC value within limits for B 249.677 Recovery = 97.10%								
Ba 233.527†	40640.2	2.424	mg/L	0.0110	2424	µg/L	11.0	0.45%
QC value within limits for Ba 233.527 Recovery = 96.96%								
Be 313.107†	1762336.3	2.470	mg/L	0.0109	2470	µg/L	10.9	0.44%
QC value within limits for Be 313.107 Recovery = 98.80%								
Ca 317.933†	990570.1	24.69	mg/L	0.053	24690	µg/L	53.5	0.22%
QC value within limits for Ca 317.933 Recovery = 98.77%								
Cd 214.440†	87204.8	2.413	mg/L	0.0087	2413	µg/L	8.7	0.36%
QC value within limits for Cd 214.440 Recovery = 96.51%								
Co 228.616†	14776.6	2.428	mg/L	0.0116	2428	µg/L	11.6	0.48%
QC value within limits for Co 228.616 Recovery = 97.14%								
Cr 205.560†	28192.5	4.921	mg/L	0.0135	4921	µg/L	13.5	0.27%
QC value within limits for Cr 205.560 Recovery = 98.43%								
Cu 327.393†	158687.2	4.891	mg/L	0.0202	4891	µg/L	20.2	0.41%
QC value within limits for Cu 327.393 Recovery = 97.82%								
Fe 238.204†	253954.8	9.853	mg/L	0.0307	9853	µg/L	30.7	0.31%
QC value within limits for Fe 238.204 Recovery = 98.53%								
K 766.490†	166446.8	23.94	mg/L	0.036	23940	µg/L	36.3	0.15%
QC value within limits for K 766.490 Recovery = 95.75%								
Mg 279.077†	89588.9	24.35	mg/L	0.062	24350	µg/L	61.9	0.25%
QC value within limits for Mg 279.077 Recovery = 97.39%								
Mn 257.610†	621328.7	4.910	mg/L	0.0183	4910	µg/L	18.3	0.37%
QC value within limits for Mn 257.610 Recovery = 98.20%								

Mo 202.031†	1572.5	0.4887 mg/L	0.00284	488.7 µg/L	2.84	0.58%
QC value within limits for Mo 202.031 Recovery = 97.74%						
Na 589.592†	423974.9	24.45 mg/L	0.124	24450 µg/L	124.0	0.51%
QC value within limits for Na 589.592 Recovery = 97.82%						
Ni 231.604†	33389.1	4.933 mg/L	0.0110	4933 µg/L	11.0	0.22%
QC value within limits for Ni 231.604 Recovery = 98.66%						
Pb 220.353†	3525.9	2.400 mg/L	0.0136	2400 µg/L	13.6	0.57%
QC value within limits for Pb 220.353 Recovery = 95.99%						
Sb 206.836†	1591.0	2.467 mg/L	0.0217	2467 µg/L	21.7	0.88%
QC value within limits for Sb 206.836 Recovery = 98.68%						
Se 196.026†	1251.8	2.476 mg/L	0.0167	2476 µg/L	16.7	0.67%
QC value within limits for Se 196.026 Recovery = 99.03%						
Sn 189.927†	1154.8	2.510 mg/L	0.0309	2510 µg/L	30.9	1.23%
QC value within limits for Sn 189.927 Recovery = 100.41%						
Ti 334.940†	76790.4	0.4944 mg/L	0.00253	494.4 µg/L	2.53	0.51%
QC value within limits for Ti 334.940 Recovery = 98.88%						
Tl 190.801†	218.8	2.414 mg/L	0.0079	2414 µg/L	7.9	0.33%
QC value within limits for Tl 190.801 Recovery = 96.55%						
V 292.402†	42333.5	1.226 mg/L	0.0031	1226 µg/L	3.1	0.25%
QC value within limits for V 292.402 Recovery = 98.09%						
Zn 206.200†	92872.7	9.896 mg/L	0.0397	9896 µg/L	39.7	0.40%
QC value within limits for Zn 206.200 Recovery = 98.96%						
Li 670.784†	440719.1	2.368 mg/L	0.0051	2368 µg/L	5.1	0.21%
QC value within limits for Li 670.784 Recovery = 94.74%						
Sr 421.552†	2898592.7	2.417 mg/L	0.0159	2417 µg/L	15.9	0.66%
QC value within limits for Sr 421.552 Recovery = 96.70%						

All analyte(s) passed QC.

Analysis Begun

Start Time: 2/9/2012 11:26:48 AM
Logged In Analyst: Optima
Spectrometer Model: Optima 3300 DV, S/N 069N9033001Autosampler Model: AS-91
Plasma On Time: 2/9/2012 7:47:35 AM
Technique: ICP Continuous

Sample Information File: C:\pe\Administrator\Sample Information\BA20301.sif
Batch ID: BB20706
Results Data Set: DV120208
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: IBL
Analyst:
Initial Sample Wt:
Dilution:
User canceled analysis.
Autosampler Location: 1
Date Collected: 2/9/2012 11:26:49 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Analysis Begun

Start Time: 2/9/2012 11:27:21 AM
Logged In Analyst: Optima
Spectrometer Model: Optima 3300 DV, S/N 069N9033001Autosampler Model: AS-91
Plasma On Time: 2/9/2012 7:47:35 AM
Technique: ICP Continuous

Sample Information File: C:\pe\Administrator\Sample Information\BA20301.sif
Batch ID: BB20706
Results Data Set: DV120208
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 9
Sample ID: BB20706-BLK2
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 17
Date Collected: 2/9/2012 11:27:21 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20706-BLK2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	596494.5	102.6	%	0.69				0.68%
Ag 328.068†	43.9						31.02	70.64%
Al 308.215†	-2.4	-0.0006	mg/L	0.00530	-0.6291	µg/L	5.29542	841.77%
As 188.979†	2.5	0.0060	mg/L	0.00799	5.998	µg/L	7.9936	133.27%
B 249.677†	174.6	0.0145	mg/L	0.00227	14.55	µg/L	2.271	15.61%
Ba 233.527†	4.9	0.0003	mg/L	0.00033	0.2909	µg/L	0.32948	113.26%
Be 313.107†	162.7	0.0002	mg/L	0.00005	0.2282	µg/L	0.04957	21.72%
Ca 317.933†	-46.8	-0.0012	mg/L	0.00174	-1.167	µg/L	1.7369	148.81%
Cd 214.440†	-5.8	-0.0002	mg/L	0.00022	-0.1579	µg/L	0.21962	139.04%
Co 228.616†	-4.1	-0.0007	mg/L	0.00095	-0.6681	µg/L	0.94727	141.78%
Cr 205.560†	8.6	0.0015	mg/L	0.00037	1.503	µg/L	0.3654	24.31%
Cu 327.393†	67.5	0.0021	mg/L	0.00155	2.082	µg/L	1.5481	74.34%
Fe 238.204†	83.9	0.0033	mg/L	0.00023	3.256	µg/L	0.2262	6.95%
K 766.490†	18.8	0.0027	mg/L	0.01106	2.700	µg/L	11.0620	409.66%
Mg 279.077†	14.3	0.0039	mg/L	0.00045	3.894	µg/L	0.4547	11.68%
Mn 257.610†	-11.8	-0.0001	mg/L	0.00007	-0.0929	µg/L	0.07063	76.01%
Mo 202.031†	-0.5	-0.0002	mg/L	0.00026	-0.1572	µg/L	0.26481	168.43%
Na 589.592†	154.1	0.0089	mg/L	0.00255	8.886	µg/L	2.5476	28.67%
Ni 231.604†	6.9	0.0010	mg/L	0.00071	1.013	µg/L	0.7131	70.41%
Pb 220.353†	-2.2	-0.0015	mg/L	0.00103	-1.484	µg/L	1.0337	69.66%
Sb 206.836†	1.1	0.0018	mg/L	0.00556	1.778	µg/L	5.5574	312.60%
Se 196.026†	1.9	0.0039	mg/L	0.00178	3.851	µg/L	1.7825	46.29%
Sn 189.927†	-1.3	-0.0030	mg/L	0.00117	-2.954	µg/L	1.1655	39.45%
Ti 334.940†	28.8	0.0002	mg/L	0.00017	0.1854	µg/L	0.17243	93.00%
Tl 190.801†	-3.5	-0.0401	mg/L	0.03257	-40.08	µg/L	32.575	81.27%
V 292.402†	13.1	0.0004	mg/L	0.00050	0.3802	µg/L	0.49732	130.82%
Zn 206.200†	9.0	0.0010	mg/L	0.00021	0.9604	µg/L	0.20603	21.45%
Li 670.784†	86.0	0.0005	mg/L	0.00044	0.4620	µg/L	0.44359	96.01%

Sr 421.552†	76.8	0.0001	mg/L	0.00005	0.0640	µg/L	0.04773 74.55%

Sequence No.: 10
Sample ID: BB20706-BS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 2/9/2012 11:31:04 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20706-BS2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	600050.0	103.2	%	0.71				0.69%
Ag 328.068†	2536.4						56.88	2.24%
Al 308.215†	7458.1	1.974	mg/L	0.0229	1974	µg/L	22.9	1.16%
As 188.979†	213.6	0.5168	mg/L	0.01242	516.8	µg/L	12.42	2.40%
B 249.677†	6079.1	0.5061	mg/L	0.00758	506.1	µg/L	7.58	1.50%
Ba 233.527†	34222.7	2.041	mg/L	0.0207	2041	µg/L	20.7	1.01%
Be 313.107†	36953.1	0.0519	mg/L	0.00061	51.87	µg/L	0.606	1.17%
Ca 317.933†	409443.9	10.21	mg/L	0.036	10210	µg/L	35.6	0.35%
Cd 214.440†	1781.0	0.0491	mg/L	0.00040	49.14	µg/L	0.404	0.82%
Co 228.616†	3082.0	0.5065	mg/L	0.00405	506.5	µg/L	4.05	0.80%
Cr 205.560†	2935.5	0.5130	mg/L	0.00325	513.0	µg/L	3.25	0.63%
Cu 327.393†	16870.9	0.5194	mg/L	0.00810	519.4	µg/L	8.10	1.56%
Fe 238.204†	130733.3	5.072	mg/L	0.0546	5072	µg/L	54.6	1.08%
K 766.490†	137550.0	19.78	mg/L	0.032	19780	µg/L	32.1	0.16%
Mg 279.077†	37565.2	10.21	mg/L	0.089	10210	µg/L	88.7	0.87%
Mn 257.610†	64921.8	0.5131	mg/L	0.00598	513.1	µg/L	5.98	1.17%
Mo 202.031†	1651.8	0.5133	mg/L	0.00500	513.3	µg/L	5.00	0.97%
Na 589.592†	176222.1	10.16	mg/L	0.038	10160	µg/L	37.9	0.37%
Ni 231.604†	3490.9	0.5158	mg/L	0.00584	515.8	µg/L	5.84	1.13%
Pb 220.353†	732.6	0.4994	mg/L	0.00434	499.4	µg/L	4.34	0.87%
Sb 206.836†	334.9	0.5254	mg/L	0.00578	525.4	µg/L	5.78	1.10%
Se 196.026†	258.8	0.5119	mg/L	0.01013	511.9	µg/L	10.13	1.98%
Sn 189.927†	248.4	0.5331	mg/L	0.00662	533.1	µg/L	6.62	1.24%
Ti 334.940†	80821.6	0.5204	mg/L	0.00723	520.4	µg/L	7.23	1.39%
Tl 190.801†	46.7	0.5017	mg/L	0.03952	501.7	µg/L	39.52	7.88%
V 292.402†	17392.4	0.5038	mg/L	0.00682	503.8	µg/L	6.82	1.35%
Zn 206.200†	4840.5	0.5154	mg/L	0.00642	515.4	µg/L	6.42	1.25%
Li 670.784†	90938.7	0.4887	mg/L	0.00186	488.7	µg/L	1.86	0.38%
Sr 421.552†	601714.8	0.5018	mg/L	0.00128	501.8	µg/L	1.28	0.26%

Sequence No.: 11
Sample ID: 1202001-23
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 2/9/2012 11:34:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202001-23

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	609822.9	104.9	%	0.28				0.26%
Ag 328.068†	-2.0						27.84	>999.9%
Al 308.215†	-21.1	-0.0365	mg/L	0.00302	-36.50	µg/L	3.024	8.29%
As 188.979†	7.9	0.0227	mg/L	0.00516	22.75	µg/L	5.162	22.69%
B 249.677†	400.0	0.0333	mg/L	0.00109	33.34	µg/L	1.090	3.27%
Ba 233.527†	2555.4	0.1524	mg/L	0.00034	152.4	µg/L	0.34	0.23%
Be 313.107†	90.3	0.0001	mg/L	0.00002	0.1277	µg/L	0.01662	13.01%
Ca 317.933†	1288987.5	32.13	mg/L	0.081	32130	µg/L	80.6	0.25%
Cd 214.440†	-14.8	-0.0004	mg/L	0.00015	-0.4066	µg/L	0.14562	35.81%
Co 228.616†	-1.7	-0.0003	mg/L	0.00030	-0.2805	µg/L	0.29747	106.06%
Cr 205.560†	32.8	0.0057	mg/L	0.00128	5.720	µg/L	1.2760	22.31%
Cu 327.393†	7.4	-0.0022	mg/L	0.00032	-2.213	µg/L	0.3177	14.35%
Fe 238.204†	129.8	0.0050	mg/L	0.00086	5.035	µg/L	0.8580	17.04%
K 766.490†	7477.4	1.075	mg/L	0.0085	1075	µg/L	8.5	0.80%
Mg 279.077†	29047.6	7.894	mg/L	0.0757	7894	µg/L	75.7	0.96%
Mn 257.610†	35.7	0.0003	mg/L	0.00011	0.2825	µg/L	0.10685	37.82%
Mo 202.031†	-1.8	-0.0006	mg/L	0.00148	-0.5657	µg/L	1.48110	261.83%
Na 589.592†	125538.7	7.241	mg/L	0.0131	7241	µg/L	13.1	0.18%

Ni 231.604†	2.6	0.0004	mg/L	0.00043	0.3903	µg/L	0.42698 109.39%
Pb 220.353†	-26.1	-0.0178	mg/L	0.00172	-17.81	µg/L	1.723 9.67%
Sb 206.836†	-3.0	-0.0080	mg/L	0.00374	-8.032	µg/L	3.7425 46.60%
Se 196.026†	9.6	0.0189	mg/L	0.00592	18.89	µg/L	5.924 31.36%
Sn 189.927†	28.4	0.0177	mg/L	0.00921	17.70	µg/L	9.210 52.02%
Ti 334.940†	-16.8	-0.0001	mg/L	0.00003	-0.1083	µg/L	0.03481 32.14%
Tl 190.801†	5.3	0.0477	mg/L	0.01938	47.70	µg/L	19.379 40.62%
V 292.402†	10.6	0.0003	mg/L	0.00034	0.3084	µg/L	0.34458 111.72%
Zn 206.200†	-0.3	0.0000	mg/L	0.00031	-0.0364	µg/L	0.30887 848.60%
Li 670.784†	2788.0	0.0150	mg/L	0.00024	14.98	µg/L	0.235 1.57%
Sr 421.552†	1324069.6	1.104	mg/L	0.0013	1104	µg/L	1.3 0.11%

Sequence No.: 12
Sample ID: BB20707-BLK2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 2/9/2012 11:38:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20707-BLK2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	602176.0	103.6	%	0.45				0.44%
Ag 328.068†	42.9						20.59	47.97%
Al 308.215†	-17.9	-0.0048	mg/L	0.00718	-4.760	µg/L	7.1768	150.77%
As 188.979†	1.6	0.0037	mg/L	0.00647	3.709	µg/L	6.4689	174.42%
B 249.677†	88.3	0.0074	mg/L	0.00099	7.356	µg/L	0.9929	13.50%
Ba 233.527†	0.7	0.0000	mg/L	0.00003	0.0447	µg/L	0.02946	65.88%
Be 313.107†	88.2	0.0001	mg/L	0.00003	0.1238	µg/L	0.03233	26.12%
Ca 317.933†	9.5	0.0002	mg/L	0.00218	0.2363	µg/L	2.18080	923.00%
Cd 214.440†	-7.2	-0.0002	mg/L	0.00018	-0.1970	µg/L	0.17740	90.04%
Co 228.616†	-8.7	-0.0014	mg/L	0.00086	-1.422	µg/L	0.8599	60.47%
Cr 205.560†	4.5	0.0008	mg/L	0.00060	0.7832	µg/L	0.59651	76.16%
Cu 327.393†	-1.6	0.0000	mg/L	0.00033	-0.0482	µg/L	0.33386	692.39%
Fe 238.204†	86.8	0.0034	mg/L	0.00065	3.366	µg/L	0.6471	19.22%
K 766.490†	-89.4	-0.0129	mg/L	0.00056	-12.86	µg/L	0.563	4.38%
Mg 279.077†	26.7	0.0073	mg/L	0.00447	7.255	µg/L	4.4691	61.60%
Mn 257.610†	-39.4	-0.0003	mg/L	0.00009	-0.3112	µg/L	0.09488	30.49%
Mo 202.031†	-0.8	-0.0003	mg/L	0.00212	-0.2618	µg/L	2.11859	809.31%
Na 589.592†	77.6	0.0045	mg/L	0.00036	4.477	µg/L	0.3562	7.96%
Ni 231.604†	3.8	0.0006	mg/L	0.00067	0.5647	µg/L	0.67105	118.84%
Pb 220.353†	0.5	0.0004	mg/L	0.00079	0.3716	µg/L	0.79427	213.75%
Sb 206.836†	-2.0	-0.0033	mg/L	0.00063	-3.323	µg/L	0.6323	19.03%
Se 196.026†	-0.9	-0.0017	mg/L	0.00724	-1.708	µg/L	7.2446	424.28%
Sn 189.927†	0.7	0.0016	mg/L	0.00437	1.562	µg/L	4.3741	280.07%
Ti 334.940†	15.3	0.0001	mg/L	0.00014	0.0983	µg/L	0.13905	141.53%
Tl 190.801†	-5.0	-0.0576	mg/L	0.02582	-57.57	µg/L	25.822	44.85%
V 292.402†	5.5	0.0002	mg/L	0.00018	0.1584	µg/L	0.18316	115.62%
Zn 206.200†	-10.5	-0.0011	mg/L	0.00027	-1.120	µg/L	0.2666	23.80%
Li 670.784†	-78.4	-0.0004	mg/L	0.00020	-0.4212	µg/L	0.19639	46.63%
Sr 421.552†	109.8	0.0001	mg/L	0.00003	0.0916	µg/L	0.03370	36.80%

Sequence No.: 13
Sample ID: BB20707-BS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 2/9/2012 11:42:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20707-BS2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	610365.4	105.0	%	0.36				0.34%
Ag 328.068†	2481.2						18.37	0.74%
Al 308.215†	7341.6	1.943	mg/L	0.0148	1943	µg/L	14.8	0.76%
As 188.979†	208.6	0.5047	mg/L	0.00131	504.7	µg/L	1.31	0.26%
B 249.677†	5950.4	0.4954	mg/L	0.00457	495.4	µg/L	4.57	0.92%
Ba 233.527†	33735.3	2.012	mg/L	0.0155	2012	µg/L	15.5	0.77%
Be 313.107†	36499.4	0.0512	mg/L	0.00030	51.23	µg/L	0.301	0.59%
Ca 317.933†	403795.1	10.07	mg/L	0.047	10070	µg/L	46.6	0.46%

Cd 214.440†	1743.6	0.0481	mg/L	0.00023	48.10	µg/L	0.231	0.48%
Co 228.616†	3010.9	0.4948	mg/L	0.00251	494.8	µg/L	2.51	0.51%
Cr 205.560†	2877.9	0.5030	mg/L	0.00303	503.0	µg/L	3.03	0.60%
Cu 327.393†	16594.0	0.5109	mg/L	0.00349	510.9	µg/L	3.49	0.68%
Fe 238.204†	128878.0	5.000	mg/L	0.0385	5000	µg/L	38.5	0.77%
K 766.490†	136286.1	19.60	mg/L	0.078	19600	µg/L	78.5	0.40%
Mg 279.077†	36949.0	10.04	mg/L	0.059	10040	µg/L	59.1	0.59%
Mn 257.610†	64019.5	0.5059	mg/L	0.00365	505.9	µg/L	3.65	0.72%
Mo 202.031†	1629.8	0.5065	mg/L	0.00178	506.5	µg/L	1.78	0.35%
Na 589.592†	174826.0	10.08	mg/L	0.063	10080	µg/L	62.8	0.62%
Ni 231.604†	3447.8	0.5094	mg/L	0.00533	509.4	µg/L	5.33	1.05%
Pb 220.353†	709.7	0.4838	mg/L	0.00405	483.8	µg/L	4.05	0.84%
Sb 206.836†	323.1	0.5066	mg/L	0.01164	506.6	µg/L	11.64	2.30%
Se 196.026†	258.2	0.5106	mg/L	0.00707	510.6	µg/L	7.07	1.38%
Sn 189.927†	241.4	0.5179	mg/L	0.00389	517.9	µg/L	3.89	0.75%
Ti 334.940†	79739.4	0.5134	mg/L	0.00365	513.4	µg/L	3.65	0.71%
Tl 190.801†	44.7	0.4796	mg/L	0.01529	479.6	µg/L	15.29	3.19%
V 292.402†	17174.2	0.4974	mg/L	0.00403	497.4	µg/L	4.03	0.81%
Zn 206.200†	4779.7	0.5090	mg/L	0.00305	509.0	µg/L	3.05	0.60%
Li 670.784†	90250.0	0.4850	mg/L	0.00222	485.0	µg/L	2.22	0.46%
Sr 421.552†	597942.6	0.4987	mg/L	0.00289	498.7	µg/L	2.89	0.58%

Sequence No.: 14
Sample ID: 1202003-01
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 2/9/2012 11:46:02 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-01

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	606434.7	104.3	%	0.52				0.49%
Ag 328.068†	2.7						31.98	>999.9%
Al 308.215†	-3.5	-0.0319	mg/L	0.00483	-31.90	µg/L	4.834	15.16%
As 188.979†	8.4	0.0241	mg/L	0.00846	24.08	µg/L	8.457	35.11%
B 249.677†	378.1	0.0315	mg/L	0.00145	31.51	µg/L	1.450	4.60%
Ba 233.527†	2570.7	0.1533	mg/L	0.00114	153.3	µg/L	1.14	0.74%
Be 313.107†	28.6	0.0000	mg/L	0.00004	0.0407	µg/L	0.03535	86.86%
Ca 317.933†	1291377.7	32.19	mg/L	0.165	32190	µg/L	164.7	0.51%
Cd 214.440†	-13.4	-0.0004	mg/L	0.00027	-0.3684	µg/L	0.26847	72.87%
Co 228.616†	-7.3	-0.0012	mg/L	0.00029	-1.202	µg/L	0.2924	24.33%
Cr 205.560†	19.6	0.0034	mg/L	0.00066	3.426	µg/L	0.6566	19.17%
Cu 327.393†	34.1	-0.0014	mg/L	0.00039	-1.394	µg/L	0.3861	27.70%
Fe 238.204†	116.2	0.0045	mg/L	0.00017	4.508	µg/L	0.1719	3.81%
K 766.490†	7480.5	1.076	mg/L	0.0057	1076	µg/L	5.7	0.53%
Mg 279.077†	29113.9	7.912	mg/L	0.0581	7912	µg/L	58.1	0.73%
Mn 257.610†	33.8	0.0003	mg/L	0.00009	0.2673	µg/L	0.09195	34.40%
Mo 202.031†	3.4	0.0011	mg/L	0.00161	1.050	µg/L	1.6107	153.34%
Na 589.592†	125813.9	7.257	mg/L	0.0474	7257	µg/L	47.4	0.65%
Ni 231.604†	2.7	0.0004	mg/L	0.00137	0.3960	µg/L	1.36702	345.19%
Pb 220.353†	-21.3	-0.0145	mg/L	0.00154	-14.54	µg/L	1.537	10.57%
Sb 206.836†	0.3	-0.0027	mg/L	0.00342	-2.711	µg/L	3.4242	126.33%
Se 196.026†	2.7	0.0054	mg/L	0.00199	5.372	µg/L	1.9897	37.04%
Sn 189.927†	23.5	0.0067	mg/L	0.00629	6.739	µg/L	6.2877	93.30%
Ti 334.940†	5.8	0.0000	mg/L	0.00012	0.0374	µg/L	0.12398	331.79%
Tl 190.801†	4.6	0.0404	mg/L	0.00718	40.37	µg/L	7.179	17.78%
V 292.402†	11.0	0.0003	mg/L	0.00020	0.3183	µg/L	0.19906	62.54%
Zn 206.200†	-6.3	-0.0007	mg/L	0.00015	-0.6750	µg/L	0.15428	22.86%
Li 670.784†	2761.5	0.0148	mg/L	0.00027	14.84	µg/L	0.267	1.80%
Sr 421.552†	1324270.3	1.104	mg/L	0.0060	1104	µg/L	6.0	0.54%

Sequence No.: 15
Sample ID: BB20707-DUP2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 2/9/2012 11:49:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20707-DUP2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	609267.7	104.8	%	0.36				0.35%
Ag 328.068†	8.6						29.84	344.93%
Al 308.215†	-30.7	-0.0389	mg/L	0.00361	-38.89	µg/L	3.608	9.28%
As 188.979†	5.8	0.0179	mg/L	0.00707	17.87	µg/L	7.066	39.55%
B 249.677†	355.1	0.0296	mg/L	0.00080	29.59	µg/L	0.801	2.71%
Ba 233.527†	2533.1	0.1511	mg/L	0.00044	151.1	µg/L	0.44	0.29%
Be 313.107†	42.2	0.0001	mg/L	0.00002	0.0597	µg/L	0.02190	36.67%
Ca 317.933†	1282043.8	31.96	mg/L	0.146	31960	µg/L	145.7	0.46%
Cd 214.440†	-12.2	-0.0003	mg/L	0.00006	-0.3349	µg/L	0.06211	18.54%
Co 228.616†	-5.1	-0.0008	mg/L	0.00021	-0.8310	µg/L	0.20526	24.70%
Cr 205.560†	18.9	0.0033	mg/L	0.00093	3.295	µg/L	0.9301	28.22%
Cu 327.393†	-11.9	-0.0028	mg/L	0.00055	-2.793	µg/L	0.5501	19.69%
Fe 238.204†	69.4	0.0027	mg/L	0.00064	2.692	µg/L	0.6379	23.69%
K 766.490†	7312.4	1.052	mg/L	0.0099	1052	µg/L	9.9	0.94%
Mg 279.077†	28764.8	7.818	mg/L	0.0370	7818	µg/L	37.0	0.47%
Mn 257.610†	25.0	0.0002	mg/L	0.00003	0.1973	µg/L	0.02544	12.89%
Mo 202.031†	1.8	0.0005	mg/L	0.00048	0.5461	µg/L	0.47736	87.42%
Na 589.592†	124648.0	7.189	mg/L	0.0284	7189	µg/L	28.4	0.39%
Ni 231.604†	0.1	0.0000	mg/L	0.00052	0.0186	µg/L	0.52444	>999.9%
Pb 220.353†	-22.3	-0.0152	mg/L	0.00695	-15.23	µg/L	6.953	45.64%
Sb 206.836†	-3.1	-0.0082	mg/L	0.01236	-8.220	µg/L	12.3619	150.39%
Se 196.026†	7.0	0.0138	mg/L	0.00132	13.80	µg/L	1.317	9.54%
Sn 189.927†	24.7	0.0096	mg/L	0.00672	9.587	µg/L	6.7248	70.15%
Ti 334.940†	-8.2	-0.0001	mg/L	0.00016	-0.0527	µg/L	0.15965	302.99%
Tl 190.801†	4.7	0.0413	mg/L	0.02125	41.28	µg/L	21.250	51.48%
V 292.402†	5.5	0.0002	mg/L	0.00047	0.1598	µg/L	0.46506	290.97%
Zn 206.200†	-6.8	-0.0007	mg/L	0.00023	-0.7249	µg/L	0.22750	31.38%
Li 670.784†	2702.4	0.0145	mg/L	0.00034	14.52	µg/L	0.342	2.36%
Sr 421.552†	1321007.9	1.102	mg/L	0.0050	1102	µg/L	5.0	0.46%

Sequence No.: 16
Sample ID: 1202003-02
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 2/9/2012 11:53:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-02

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	607605.9	104.5	%	0.50				0.48%
Ag 328.068†	-43.9						9.36	21.35%
Al 308.215†	5.9	-0.0293	mg/L	0.00558	-29.29	µg/L	5.582	19.06%
As 188.979†	6.9	0.0205	mg/L	0.00668	20.47	µg/L	6.685	32.65%
B 249.677†	340.2	0.0284	mg/L	0.00021	28.35	µg/L	0.208	0.73%
Ba 233.527†	2561.2	0.1528	mg/L	0.00072	152.8	µg/L	0.72	0.47%
Be 313.107†	58.5	0.0001	mg/L	0.00003	0.0828	µg/L	0.02901	35.03%
Ca 317.933†	1287743.5	32.10	mg/L	0.198	32100	µg/L	198.5	0.62%
Cd 214.440†	-18.7	-0.0005	mg/L	0.00016	-0.5155	µg/L	0.16205	31.43%
Co 228.616†	-7.5	-0.0012	mg/L	0.00131	-1.226	µg/L	1.3072	106.63%
Cr 205.560†	23.6	0.0041	mg/L	0.00044	4.123	µg/L	0.4378	10.62%
Cu 327.393†	1.1	-0.0024	mg/L	0.00184	-2.404	µg/L	1.8385	76.48%
Fe 238.204†	77.6	0.0030	mg/L	0.00052	3.010	µg/L	0.5168	17.17%
K 766.490†	7413.7	1.066	mg/L	0.0167	1066	µg/L	16.7	1.57%
Mg 279.077†	29217.5	7.941	mg/L	0.0642	7941	µg/L	64.2	0.81%
Mn 257.610†	57.7	0.0005	mg/L	0.00006	0.4563	µg/L	0.06008	13.17%
Mo 202.031†	-2.2	-0.0007	mg/L	0.00018	-0.6856	µg/L	0.17575	25.63%
Na 589.592†	130005.4	7.498	mg/L	0.0287	7498	µg/L	28.7	0.38%
Ni 231.604†	-0.3	0.0000	mg/L	0.00025	-0.0452	µg/L	0.25387	561.91%
Pb 220.353†	-24.2	-0.0165	mg/L	0.00819	-16.54	µg/L	8.189	49.50%
Sb 206.836†	-3.0	-0.0081	mg/L	0.00608	-8.123	µg/L	6.0825	74.88%
Se 196.026†	5.4	0.0106	mg/L	0.00673	10.63	µg/L	6.729	63.28%
Sn 189.927†	26.4	0.0133	mg/L	0.00570	13.27	µg/L	5.704	42.99%
Ti 334.940†	-19.3	-0.0001	mg/L	0.00013	-0.1243	µg/L	0.13344	107.34%
Tl 190.801†	4.5	0.0383	mg/L	0.01088	38.26	µg/L	10.877	28.43%
V 292.402†	9.8	0.0003	mg/L	0.00035	0.2827	µg/L	0.34781	123.01%
Zn 206.200†	-11.7	-0.0012	mg/L	0.00047	-1.249	µg/L	0.4686	37.53%
Li 670.784†	2773.9	0.0149	mg/L	0.00037	14.91	µg/L	0.369	2.47%
Sr 421.552†	1376746.5	1.148	mg/L	0.0034	1148	µg/L	3.4	0.30%

Sequence No.: 17
Sample ID: 1202003-03
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 2/9/2012 11:57:06 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-03

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	607269.6	104.4	%	0.46				0.44%
Ag 328.068†	-27.9						31.19	111.98%
Al 308.215†	19.7	-0.0296	mg/L	0.00171	-29.56	µg/L	1.712	5.79%
As 188.979†	6.5	0.0196	mg/L	0.00358	19.58	µg/L	3.575	18.26%
B 249.677†	270.2	0.0225	mg/L	0.00069	22.51	µg/L	0.692	3.07%
Ba 233.527†	3420.7	0.2040	mg/L	0.00129	204.0	µg/L	1.29	0.63%
Be 313.107†	28.9	0.0000	mg/L	0.00003	0.0412	µg/L	0.03002	72.81%
Ca 317.933†	1451253.3	36.18	mg/L	0.160	36180	µg/L	160.0	0.44%
Cd 214.440†	-15.8	-0.0004	mg/L	0.00013	-0.4430	µg/L	0.13088	29.54%
Co 228.616†	-7.2	-0.0012	mg/L	0.00026	-1.180	µg/L	0.2622	22.22%
Cr 205.560†	22.0	0.0039	mg/L	0.00105	3.873	µg/L	1.0485	27.07%
Cu 327.393†	42.4	-0.0014	mg/L	0.00106	-1.440	µg/L	1.0553	73.28%
Fe 238.204†	5254.6	0.2039	mg/L	0.00135	203.9	µg/L	1.35	0.66%
K 766.490†	10320.9	1.484	mg/L	0.0098	1484	µg/L	9.8	0.66%
Mg 279.077†	29476.1	8.011	mg/L	0.0376	8011	µg/L	37.6	0.47%
Mn 257.610†	155.5	0.0012	mg/L	0.00008	1.229	µg/L	0.0804	6.54%
Mo 202.031†	-5.1	-0.0016	mg/L	0.00124	-1.579	µg/L	1.2410	78.60%
Na 589.592†	185976.3	10.73	mg/L	0.048	10730	µg/L	47.6	0.44%
Ni 231.604†	0.7	0.0001	mg/L	0.00062	0.1080	µg/L	0.62035	574.34%
Pb 220.353†	-27.7	-0.0189	mg/L	0.00015	-18.92	µg/L	0.148	0.78%
Sb 206.836†	-4.2	-0.0102	mg/L	0.00715	-10.23	µg/L	7.147	69.87%
Se 196.026†	6.7	0.0132	mg/L	0.00345	13.24	µg/L	3.453	26.08%
Sn 189.927†	28.9	0.0131	mg/L	0.00250	13.12	µg/L	2.504	19.08%
Ti 334.940†	-20.0	-0.0001	mg/L	0.00004	-0.1288	µg/L	0.04468	34.68%
Tl 190.801†	7.4	0.0715	mg/L	0.05049	71.50	µg/L	50.494	70.62%
V 292.402†	18.4	0.0005	mg/L	0.00019	0.5333	µg/L	0.18998	35.63%
Zn 206.200†	21.0	0.0022	mg/L	0.00039	2.237	µg/L	0.3877	17.33%
Li 670.784†	3070.2	0.0165	mg/L	0.00025	16.50	µg/L	0.246	1.49%
Sr 421.552†	567926.6	0.4737	mg/L	0.00165	473.7	µg/L	1.65	0.35%

Sequence No.: 18
Sample ID: 1202003-04
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 2/9/2012 12:00:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-04

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	611593.8	105.2	%	0.60				0.57%
Ag 328.068†	-43.4						41.12	94.82%
Al 308.215†	-8.3	-0.0379	mg/L	0.00946	-37.85	µg/L	9.463	25.00%
As 188.979†	6.7	0.0200	mg/L	0.00666	19.95	µg/L	6.665	33.40%
B 249.677†	264.5	0.0220	mg/L	0.00093	22.04	µg/L	0.925	4.20%
Ba 233.527†	3502.2	0.2089	mg/L	0.00175	208.9	µg/L	1.75	0.84%
Be 313.107†	17.1	0.0000	mg/L	0.00002	0.0250	µg/L	0.01982	79.23%
Ca 317.933†	1486688.4	37.06	mg/L	0.113	37060	µg/L	113.3	0.31%
Cd 214.440†	-22.1	-0.0006	mg/L	0.00005	-0.6160	µg/L	0.05228	8.49%
Co 228.616†	-4.8	-0.0008	mg/L	0.00103	-0.7810	µg/L	1.03460	132.47%
Cr 205.560†	29.2	0.0051	mg/L	0.00092	5.138	µg/L	0.9233	17.97%
Cu 327.393†	40.7	-0.0016	mg/L	0.00137	-1.559	µg/L	1.3689	87.82%
Fe 238.204†	6176.3	0.2396	mg/L	0.00311	239.6	µg/L	3.11	1.30%
K 766.490†	10540.5	1.516	mg/L	0.0150	1516	µg/L	15.0	0.99%
Mg 279.077†	30220.1	8.213	mg/L	0.0697	8213	µg/L	69.7	0.85%
Mn 257.610†	198.4	0.0016	mg/L	0.00004	1.568	µg/L	0.0356	2.27%
Mo 202.031†	-3.1	-0.0010	mg/L	0.00028	-0.9538	µg/L	0.28005	29.36%
Na 589.592†	189467.1	10.93	mg/L	0.037	10930	µg/L	36.9	0.34%
Ni 231.604†	-4.9	-0.0007	mg/L	0.00041	-0.7222	µg/L	0.40915	56.65%

Pb 220.353†	-24.4	-0.0166 mg/L	0.00371	-16.63 µg/L	3.710	22.30%
Sb 206.836†	-4.8	-0.0113 mg/L	0.00708	-11.33 µg/L	7.076	62.48%
Se 196.026†	8.3	0.0163 mg/L	0.00976	16.34 µg/L	9.759	59.71%
Sn 189.927†	29.0	0.0119 mg/L	0.00440	11.92 µg/L	4.397	36.89%
Ti 334.940†	3.8	0.0000 mg/L	0.00025	0.0244 µg/L	0.25244	>999.9%
Tl 190.801†	7.1	0.0677 mg/L	0.02031	67.72 µg/L	20.305	29.98%
V 292.402†	25.6	0.0007 mg/L	0.00015	0.7418 µg/L	0.15385	20.74%
Zn 206.200†	-6.5	-0.0007 mg/L	0.00062	-0.6924 µg/L	0.62421	90.16%
Li 670.784†	3126.5	0.0168 mg/L	0.00028	16.80 µg/L	0.282	1.68%
Sr 421.552†	580414.5	0.4841 mg/L	0.00128	484.1 µg/L	1.28	0.26%

Sequence No.: 19
Sample ID: IBL
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/9/2012 12:04:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: IBL

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	603634.1	103.8	%	0.99				0.96%
Ag 328.068†	72.3						9.54	13.19%
Unable to evaluate QC.								
Al 308.215†	-17.0	-0.0045	mg/L	0.00804	-4.519	µg/L	8.0416	177.97%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-0.1	-0.0003	mg/L	0.00632	-0.2641	µg/L	6.31524	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	37.1	0.0031	mg/L	0.00074	3.091	µg/L	0.7388	23.90%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	2.9	0.0002	mg/L	0.00014	0.1726	µg/L	0.13963	80.90%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	48.4	0.0001	mg/L	0.00005	0.0679	µg/L	0.05489	80.88%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	103.1	0.0026	mg/L	0.00154	2.571	µg/L	1.5449	60.09%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 214.440†	-6.5	-0.0002	mg/L	0.00012	-0.1786	µg/L	0.12012	67.24%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	-10.7	-0.0018	mg/L	0.00092	-1.759	µg/L	0.9155	52.04%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	2.0	0.0004	mg/L	0.00023	0.3558	µg/L	0.22915	64.40%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 327.393†	-19.4	-0.0006	mg/L	0.00032	-0.5976	µg/L	0.32282	54.02%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	9.5	0.0004	mg/L	0.00029	0.3694	µg/L	0.29363	79.49%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	-34.4	-0.0050	mg/L	0.00692	-4.951	µg/L	6.9227	139.82%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	20.2	0.0055	mg/L	0.00201	5.478	µg/L	2.0145	36.77%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-33.6	-0.0003	mg/L	0.00003	-0.2653	µg/L	0.03337	12.58%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-2.5	-0.0008	mg/L	0.00113	-0.7827	µg/L	1.12784	144.10%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	222.8	0.0128	mg/L	0.00132	12.85	µg/L	1.319	10.26%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	4.4	0.0006	mg/L	0.00041	0.6446	µg/L	0.40709	63.15%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	0.9	0.0006	mg/L	0.00466	0.6423	µg/L	4.65701	725.00%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-5.4	-0.0087	mg/L	0.00159	-8.688	µg/L	1.5863	18.26%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-1.1	-0.0023	mg/L	0.00783	-2.269	µg/L	7.8264	344.90%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-0.0	0.0000	mg/L	0.00681	-0.0432	µg/L	6.80972	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	6.0	0.0000	mg/L	0.00009	0.0386	µg/L	0.09463	245.37%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-5.0	-0.0574	mg/L	0.01259	-57.36	µg/L	12.585	21.94%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-5.9	-0.0002	mg/L	0.00045	-0.1716	µg/L	0.45205	263.43%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 206.200†	-7.1	-0.0008 mg/L	0.00046	-0.7519 µg/L	0.45500	60.51%

QC value within limits for Zn 206.200 Recovery = Not calculated

Li 670.784†	2.3	0.0000 mg/L	0.00014	0.0124 µg/L	0.13802	>999.9%

QC value within limits for Li 670.784 Recovery = Not calculated

Sr 421.552†	72.9	0.0001 mg/L	0.00004	0.0608 µg/L	0.03958	65.08%

QC value within limits for Sr 421.552 Recovery = Not calculated

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 20
Sample ID: CCV@A/B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/9/2012 12:08:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV@A/B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	602983.1	103.7	%	0.36				0.35%
Ag 328.068†	-198.9						24.05	12.09%
Al 308.215†	35840.5	9.510	mg/L	0.0764	9510	µg/L	76.4	0.80%
QC value within limits for Al 308.215 Recovery = 95.10%								
As 188.979†	2021.8	4.818	mg/L	0.0190	4818	µg/L	19.0	0.40%
QC value within limits for As 188.979 Recovery = 96.37%								
B 249.677†	28978.5	2.410	mg/L	0.0075	2410	µg/L	7.5	0.31%
QC value within limits for B 249.677 Recovery = 96.41%								
Ba 233.527†	40209.1	2.398	mg/L	0.0143	2398	µg/L	14.3	0.60%
QC value within limits for Ba 233.527 Recovery = 95.93%								
Be 313.107†	1742319.1	2.442	mg/L	0.0043	2442	µg/L	4.3	0.18%
QC value within limits for Be 313.107 Recovery = 97.68%								
Ca 317.933†	976379.9	24.34	mg/L	0.048	24340	µg/L	48.0	0.20%
QC value within limits for Ca 317.933 Recovery = 97.36%								
Cd 214.440†	85875.3	2.376	mg/L	0.0091	2376	µg/L	9.1	0.38%
QC value within limits for Cd 214.440 Recovery = 95.04%								
Co 228.616†	14552.2	2.392	mg/L	0.0140	2392	µg/L	14.0	0.58%
QC value within limits for Co 228.616 Recovery = 95.66%								
Cr 205.560†	27954.2	4.880	mg/L	0.0274	4880	µg/L	27.4	0.56%
QC value within limits for Cr 205.560 Recovery = 97.60%								
Cu 327.393†	157707.6	4.861	mg/L	0.0438	4861	µg/L	43.8	0.90%
QC value within limits for Cu 327.393 Recovery = 97.22%								
Fe 238.204†	250771.8	9.729	mg/L	0.0195	9729	µg/L	19.5	0.20%
QC value within limits for Fe 238.204 Recovery = 97.29%								
K 766.490†	164346.1	23.64	mg/L	0.032	23640	µg/L	32.4	0.14%
QC value less than the lower limit for K 766.490 Recovery = 94.54%								
Mg 279.077†	88512.8	24.06	mg/L	0.121	24060	µg/L	120.7	0.50%
QC value within limits for Mg 279.077 Recovery = 96.22%								
Mn 257.610†	614791.9	4.858	mg/L	0.0078	4858	µg/L	7.8	0.16%
QC value within limits for Mn 257.610 Recovery = 97.17%								
Mo 202.031†	1564.7	0.4862	mg/L	0.00039	486.2	µg/L	0.39	0.08%
QC value within limits for Mo 202.031 Recovery = 97.25%								
Na 589.592†	420272.5	24.24	mg/L	0.036	24240	µg/L	35.9	0.15%
QC value within limits for Na 589.592 Recovery = 96.96%								
Ni 231.604†	33078.1	4.887	mg/L	0.0307	4887	µg/L	30.7	0.63%
QC value within limits for Ni 231.604 Recovery = 97.74%								
Pb 220.353†	3465.6	2.359	mg/L	0.0023	2359	µg/L	2.3	0.10%
QC value less than the lower limit for Pb 220.353 Recovery = 94.35%								
Sb 206.836†	1573.6	2.440	mg/L	0.0124	2440	µg/L	12.4	0.51%
QC value within limits for Sb 206.836 Recovery = 97.60%								
Se 196.026†	1250.8	2.474	mg/L	0.0055	2474	µg/L	5.5	0.22%
QC value within limits for Se 196.026 Recovery = 98.95%								
Sn 189.927†	1132.4	2.462	mg/L	0.0251	2462	µg/L	25.1	1.02%
QC value within limits for Sn 189.927 Recovery = 98.46%								
Ti 334.940†	76396.1	0.4919	mg/L	0.00416	491.9	µg/L	4.16	0.85%
QC value within limits for Ti 334.940 Recovery = 98.37%								
Tl 190.801†	216.8	2.392	mg/L	0.0608	2392	µg/L	60.8	2.54%
QC value within limits for Tl 190.801 Recovery = 95.70%								
V 292.402†	42066.0	1.218	mg/L	0.0100	1218	µg/L	10.0	0.82%
QC value within limits for V 292.402 Recovery = 97.47%								
Zn 206.200†	91286.8	9.727	mg/L	0.0285	9727	µg/L	28.5	0.29%
QC value within limits for Zn 206.200 Recovery = 97.27%								

Li 670.784†	436045.9	2.343 mg/L	0.0067	2343 µg/L	6.7	0.29%
QC value within limits for Li 670.784 Recovery = 93.73%						
Sr 421.552†	2903356.4	2.421 mg/L	0.0051	2421 µg/L	5.1	0.21%
QC value within limits for Sr 421.552 Recovery = 96.86%						

QC Failed. Continue with analysis.

Sequence No.: 21
Sample ID: BB20707-MS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 2/9/2012 12:12:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: BB20707-MS2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	607815.9	104.5	%	0.53				0.51%
Ag 328.068†	2417.6						10.04	0.42%
Al 308.215†	7575.8	1.969	mg/L	0.0114	1969	µg/L	11.4	0.58%
As 188.979†	221.5	0.5398	mg/L	0.01133	539.8	µg/L	11.33	2.10%
B 249.677†	6526.8	0.5434	mg/L	0.00151	543.4	µg/L	1.51	0.28%
Ba 233.527†	37726.6	2.250	mg/L	0.0103	2250	µg/L	10.3	0.46%
Be 313.107†	37580.6	0.0528	mg/L	0.00019	52.75	µg/L	0.186	0.35%
Ca 317.933†	1906943.4	47.54	mg/L	0.131	47540	µg/L	130.7	0.27%
Cd 214.440†	1751.4	0.0483	mg/L	0.00047	48.30	µg/L	0.475	0.98%
Co 228.616†	3052.6	0.5017	mg/L	0.00224	501.7	µg/L	2.24	0.45%
Cr 205.560†	2987.5	0.5222	mg/L	0.00261	522.2	µg/L	2.61	0.50%
Cu 327.393†	16779.2	0.5138	mg/L	0.00178	513.8	µg/L	1.78	0.35%
Fe 238.204†	138817.3	5.386	mg/L	0.0238	5386	µg/L	23.8	0.44%
K 766.490†	149099.8	21.44	mg/L	0.058	21440	µg/L	57.9	0.27%
Mg 279.077†	67700.0	18.40	mg/L	0.084	18400	µg/L	83.7	0.45%
Mn 257.610†	65890.2	0.5207	mg/L	0.00118	520.7	µg/L	1.18	0.23%
Mo 202.031†	1674.0	0.5202	mg/L	0.00457	520.2	µg/L	4.57	0.88%
Na 589.592†	368935.4	21.28	mg/L	0.068	21280	µg/L	68.1	0.32%
Ni 231.604†	3418.2	0.5050	mg/L	0.00417	505.0	µg/L	4.17	0.82%
Pb 220.353†	686.7	0.4681	mg/L	0.00432	468.1	µg/L	4.32	0.92%
Sb 206.836†	352.7	0.5508	mg/L	0.00584	550.8	µg/L	5.84	1.06%
Se 196.026†	268.8	0.5316	mg/L	0.00261	531.6	µg/L	2.61	0.49%
Sn 189.927†	278.3	0.5467	mg/L	0.00239	546.7	µg/L	2.39	0.44%
Ti 334.940†	82231.2	0.5294	mg/L	0.00179	529.4	µg/L	1.79	0.34%
Tl 190.801†	56.9	0.6046	mg/L	0.01651	604.6	µg/L	16.51	2.73%
V 292.402†	17608.9	0.5100	mg/L	0.00149	510.0	µg/L	1.49	0.29%
Zn 206.200†	4817.7	0.5130	mg/L	0.00151	513.0	µg/L	1.51	0.29%
Li 670.784†	94518.5	0.5079	mg/L	0.00227	507.9	µg/L	2.27	0.45%
Sr 421.552†	1191239.9	0.9935	mg/L	0.00355	993.5	µg/L	3.55	0.36%

Sequence No.: 22
Sample ID: 1202003-05
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 2/9/2012 12:16:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-05

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	616482.8	106.0	%	0.26				0.24%
Ag 328.068†	27.6						33.95	122.92%
Al 308.215†	-34.6	-0.0092	mg/L	0.01137	-9.217	µg/L	11.3727	123.39%
As 188.979†	0.5	0.0011	mg/L	0.00761	1.101	µg/L	7.6061	691.10%
B 249.677†	166.1	0.0138	mg/L	0.00115	13.84	µg/L	1.155	8.34%
Ba 233.527†	7.7	0.0005	mg/L	0.00016	0.4616	µg/L	0.15668	33.94%
Be 313.107†	96.9	0.0001	mg/L	0.00005	0.1358	µg/L	0.05118	37.70%
Ca 317.933†	440.1	0.0110	mg/L	0.00392	10.97	µg/L	3.919	35.72%
Cd 214.440†	-15.0	-0.0004	mg/L	0.00012	-0.4131	µg/L	0.12290	29.75%
Co 228.616†	-12.2	-0.0020	mg/L	0.00017	-2.011	µg/L	0.1735	8.63%
Cr 205.560†	0.5	0.0001	mg/L	0.00004	0.0900	µg/L	0.03928	43.62%
Cu 327.393†	37.6	0.0012	mg/L	0.00059	1.158	µg/L	0.5948	51.38%
Fe 238.204†	37.3	0.0014	mg/L	0.00016	1.448	µg/L	0.1596	11.03%
K 766.490†	-1.5	-0.0002	mg/L	0.00969	-0.2182	µg/L	9.69221	>999.9%

Mg 279.077†	26.2	0.0071	mg/L	0.00245	7.130	µg/L	2.4464	34.31%
Mn 257.610†	-53.8	-0.0004	mg/L	0.00003	-0.4254	µg/L	0.02702	6.35%
Mo 202.031†	-4.0	-0.0013	mg/L	0.00103	-1.257	µg/L	1.0305	82.00%
Na 589.592†	311.7	0.0180	mg/L	0.00406	17.98	µg/L	4.064	22.60%
Ni 231.604†	1.1	0.0002	mg/L	0.00067	0.1662	µg/L	0.66678	401.12%
Pb 220.353†	-2.7	-0.0018	mg/L	0.00203	-1.833	µg/L	2.0279	110.63%
Sb 206.836†	-11.9	-0.0193	mg/L	0.00348	-19.32	µg/L	3.480	18.01%
Se 196.026†	-6.9	-0.0137	mg/L	0.00889	-13.71	µg/L	8.888	64.85%
Sn 189.927†	-1.0	-0.0023	mg/L	0.00172	-2.271	µg/L	1.7160	75.56%
Ti 334.940†	-14.1	-0.0001	mg/L	0.00011	-0.0908	µg/L	0.10925	120.33%
Tl 190.801†	-6.3	-0.0720	mg/L	0.01794	-71.99	µg/L	17.939	24.92%
V 292.402†	6.3	0.0002	mg/L	0.00013	0.1832	µg/L	0.12524	68.38%
Zn 206.200†	10.1	0.0011	mg/L	0.00085	1.073	µg/L	0.8497	79.22%
Li 670.784†	-65.2	-0.0004	mg/L	0.00006	-0.3506	µg/L	0.06283	17.92%
Sr 421.552†	141.2	0.0001	mg/L	0.00006	0.1178	µg/L	0.05917	50.23%

Sequence No.: 23
Sample ID: 1202003-06
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 2/9/2012 12:19:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-06

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	614509.9	105.7	%	0.35				0.34%
Ag 328.068†	-38.0						12.75	33.52%
Al 308.215†	-34.7	-0.0400	mg/L	0.00594	-39.98	µg/L	5.944	14.87%
As 188.979†	8.3	0.0236	mg/L	0.00545	23.63	µg/L	5.455	23.09%
B 249.677†	381.1	0.0318	mg/L	0.00049	31.76	µg/L	0.491	1.55%
Ba 233.527†	2554.5	0.1524	mg/L	0.00091	152.4	µg/L	0.91	0.59%
Be 313.107†	80.3	0.0001	mg/L	0.00005	0.1133	µg/L	0.04613	40.73%
Ca 317.933†	1282804.6	31.98	mg/L	0.110	31980	µg/L	110.3	0.35%
Cd 214.440†	-20.7	-0.0006	mg/L	0.00017	-0.5677	µg/L	0.16766	29.53%
Co 228.616†	-6.3	-0.0010	mg/L	0.00061	-1.037	µg/L	0.6131	59.10%
Cr 205.560†	22.2	0.0039	mg/L	0.00058	3.880	µg/L	0.5815	14.99%
Cu 327.393†	28.3	-0.0016	mg/L	0.00089	-1.556	µg/L	0.8928	57.37%
Fe 238.204†	38.0	0.0015	mg/L	0.00017	1.476	µg/L	0.1742	11.80%
K 766.490†	7302.4	1.050	mg/L	0.0031	1050	µg/L	3.1	0.30%
Mg 279.077†	28860.0	7.843	mg/L	0.0691	7843	µg/L	69.1	0.88%
Mn 257.610†	3.0	0.0000	mg/L	0.00012	0.0236	µg/L	0.12450	528.32%
Mo 202.031†	-3.0	-0.0009	mg/L	0.00116	-0.9188	µg/L	1.16408	126.70%
Na 589.592†	126075.4	7.272	mg/L	0.0279	7272	µg/L	27.9	0.38%
Ni 231.604†	-4.1	-0.0006	mg/L	0.00029	-0.6038	µg/L	0.29209	48.37%
Pb 220.353†	-32.5	-0.0222	mg/L	0.00271	-22.18	µg/L	2.708	12.21%
Sb 206.836†	-4.1	-0.0099	mg/L	0.00575	-9.858	µg/L	5.7497	58.32%
Se 196.026†	1.1	0.0021	mg/L	0.00657	2.081	µg/L	6.5665	315.59%
Sn 189.927†	26.5	0.0137	mg/L	0.01452	13.69	µg/L	14.522	106.11%
Ti 334.940†	-26.7	-0.0002	mg/L	0.00025	-0.1721	µg/L	0.25176	146.28%
Tl 190.801†	4.6	0.0400	mg/L	0.01737	39.96	µg/L	17.366	43.46%
V 292.402†	-1.6	0.0000	mg/L	0.00023	-0.0465	µg/L	0.22875	491.79%
Zn 206.200†	-4.4	-0.0005	mg/L	0.00043	-0.4753	µg/L	0.43418	91.35%
Li 670.784†	2670.3	0.0143	mg/L	0.00012	14.35	µg/L	0.116	0.81%
Sr 421.552†	1331314.7	1.110	mg/L	0.0034	1110	µg/L	3.4	0.31%

Sequence No.: 24
Sample ID: 1202003-07
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 2/9/2012 12:23:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-07

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	622467.5	107.0	%	0.41				0.39%
Ag 328.068†	-15.7						30.46	194.36%
Al 308.215†	-13.3	-0.0342	mg/L	0.00097	-34.20	µg/L	0.965	2.82%
As 188.979†	7.9	0.0228	mg/L	0.00372	22.76	µg/L	3.724	16.36%

B 249.677†	359.5	0.0300	mg/L	0.00043	29.96	µg/L	0.430	1.44%
Ba 233.527†	2542.7	0.1517	mg/L	0.00077	151.7	µg/L	0.77	0.51%
Be 313.107†	71.9	0.0001	mg/L	0.00003	0.1016	µg/L	0.03383	33.29%
Ca 317.933†	1279634.0	31.90	mg/L	0.136	31900	µg/L	136.4	0.43%
Cd 214.440†	-28.7	-0.0008	mg/L	0.00007	-0.7917	µg/L	0.06593	8.33%
Co 228.616†	-8.4	-0.0014	mg/L	0.00063	-1.385	µg/L	0.6341	45.77%
Cr 205.560†	23.4	0.0041	mg/L	0.00089	4.089	µg/L	0.8874	21.70%
Cu 327.393†	-7.7	-0.0027	mg/L	0.00060	-2.662	µg/L	0.5976	22.45%
Fe 238.204†	146.1	0.0057	mg/L	0.00041	5.670	µg/L	0.4060	7.16%
K 766.490†	7238.4	1.041	mg/L	0.0012	1041	µg/L	1.2	0.12%
Mg 279.077†	28968.8	7.873	mg/L	0.0463	7873	µg/L	46.3	0.59%
Mn 257.610†	30.4	0.0002	mg/L	0.00005	0.2399	µg/L	0.04970	20.72%
Mo 202.031†	-5.2	-0.0016	mg/L	0.00119	-1.605	µg/L	1.1871	73.95%
Na 589.592†	129986.1	7.497	mg/L	0.0335	7497	µg/L	33.5	0.45%
Ni 231.604†	2.2	0.0003	mg/L	0.00025	0.3275	µg/L	0.24534	74.92%
Pb 220.353†	-26.0	-0.0178	mg/L	0.00206	-17.76	µg/L	2.058	11.59%
Sb 206.836†	-6.6	-0.0139	mg/L	0.00084	-13.87	µg/L	0.841	6.07%
Se 196.026†	0.7	0.0014	mg/L	0.00454	1.409	µg/L	4.5443	322.45%
Sn 189.927†	27.1	0.0151	mg/L	0.00836	15.09	µg/L	8.357	55.36%
Ti 334.940†	-53.4	-0.0003	mg/L	0.00022	-0.3438	µg/L	0.22013	64.02%
Tl 190.801†	4.0	0.0327	mg/L	0.01296	32.72	µg/L	12.965	39.62%
V 292.402†	-2.3	-0.0001	mg/L	0.00002	-0.0669	µg/L	0.01661	24.83%
Zn 206.200†	-9.6	-0.0010	mg/L	0.00033	-1.027	µg/L	0.3285	31.97%
Li 670.784†	2748.3	0.0148	mg/L	0.00038	14.77	µg/L	0.379	2.57%
Sr 421.552†	1383677.1	1.154	mg/L	0.0059	1154	µg/L	5.9	0.51%

Sequence No.: 25
Sample ID: 1202003-08
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 2/9/2012 12:27:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-08

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	620766.1	106.8	%	0.38				0.36%
Ag 328.068†	-18.5						39.01	210.48%
Al 308.215†	-22.9	-0.0402	mg/L	0.00360	-40.23	µg/L	3.604	8.96%
As 188.979†	8.1	0.0233	mg/L	0.00433	23.33	µg/L	4.333	18.57%
B 249.677†	284.7	0.0237	mg/L	0.00050	23.72	µg/L	0.505	2.13%
Ba 233.527†	3371.3	0.2011	mg/L	0.00136	201.1	µg/L	1.36	0.68%
Be 313.107†	38.3	0.0001	mg/L	0.00005	0.0545	µg/L	0.04541	83.33%
Ca 317.933†	1423977.9	35.50	mg/L	0.185	35500	µg/L	184.8	0.52%
Cd 214.440†	-30.1	-0.0008	mg/L	0.00011	-0.8298	µg/L	0.11034	13.30%
Co 228.616†	-12.0	-0.0020	mg/L	0.00062	-1.971	µg/L	0.6181	31.36%
Cr 205.560†	24.8	0.0043	mg/L	0.00067	4.336	µg/L	0.6741	15.55%
Cu 327.393†	18.5	-0.0021	mg/L	0.00058	-2.126	µg/L	0.5787	27.22%
Fe 238.204†	53.7	0.0021	mg/L	0.00036	2.085	µg/L	0.3618	17.35%
K 766.490†	10087.0	1.451	mg/L	0.0095	1451	µg/L	9.5	0.65%
Mg 279.077†	28942.5	7.866	mg/L	0.0626	7866	µg/L	62.6	0.80%
Mn 257.610†	-55.2	-0.0004	mg/L	0.00010	-0.4360	µg/L	0.10073	23.10%
Mo 202.031†	0.6	0.0002	mg/L	0.00059	0.1809	µg/L	0.58604	323.92%
Na 589.592†	183972.0	10.61	mg/L	0.042	10610	µg/L	42.2	0.40%
Ni 231.604†	-3.2	-0.0005	mg/L	0.00082	-0.4698	µg/L	0.81997	174.53%
Pb 220.353†	-28.8	-0.0196	mg/L	0.00403	-19.62	µg/L	4.027	20.52%
Sb 206.836†	-9.4	-0.0185	mg/L	0.00652	-18.49	µg/L	6.522	35.27%
Se 196.026†	6.0	0.0118	mg/L	0.01693	11.82	µg/L	16.929	143.18%
Sn 189.927†	26.7	0.0092	mg/L	0.00675	9.230	µg/L	6.7470	73.10%
Ti 334.940†	-47.5	-0.0003	mg/L	0.00018	-0.3059	µg/L	0.17735	57.98%
Tl 190.801†	6.5	0.0613	mg/L	0.01356	61.29	µg/L	13.559	22.12%
V 292.402†	5.9	0.0002	mg/L	0.00066	0.1707	µg/L	0.65618	384.47%
Zn 206.200†	-9.3	-0.0010	mg/L	0.00010	-0.9961	µg/L	0.09861	9.90%
Li 670.784†	2987.7	0.0161	mg/L	0.00023	16.06	µg/L	0.228	1.42%
Sr 421.552†	560947.4	0.4678	mg/L	0.00157	467.8	µg/L	1.57	0.33%

Sequence No.: 26
Sample ID: 1202003-09
Analyst:
Initial Sample Wt:

Autosampler Location: 29
Date Collected: 2/9/2012 12:31:02 PM
Data Type: Original
Initial Sample Vol:

Dilution: Sample Prep Vol:

Mean Data: 1202003-09

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	626392.0	107.7	%	1.50				1.39%
Ag 328.068†	18.1						16.95	93.65%
Al 308.215†	-17.4	-0.0046	mg/L	0.00118	-4.627	µg/L	1.1778	25.45%
As 188.979†	4.0	0.0094	mg/L	0.00181	9.427	µg/L	1.8115	19.22%
B 249.677†	49.0	0.0041	mg/L	0.00024	4.084	µg/L	0.2441	5.98%
Ba 233.527†	0.5	0.0000	mg/L	0.00020	0.0306	µg/L	0.19588	640.05%
Be 313.107†	90.2	0.0001	mg/L	0.00001	0.1265	µg/L	0.00567	4.48%
Ca 317.933†	105.4	0.0026	mg/L	0.00305	2.627	µg/L	3.0545	116.27%
Cd 214.440†	-20.5	-0.0006	mg/L	0.00015	-0.5654	µg/L	0.15134	26.77%
Co 228.616†	-11.3	-0.0019	mg/L	0.00082	-1.861	µg/L	0.8210	44.12%
Cr 205.560†	3.8	0.0007	mg/L	0.00099	0.6685	µg/L	0.99152	148.31%
Cu 327.393†	-46.6	-0.0014	mg/L	0.00060	-1.436	µg/L	0.5963	41.53%
Fe 238.204†	15.8	0.0006	mg/L	0.00042	0.6129	µg/L	0.42098	68.68%
K 766.490†	-200.0	-0.0288	mg/L	0.00943	-28.76	µg/L	9.431	32.79%
Mg 279.077†	25.9	0.0070	mg/L	0.00218	7.043	µg/L	2.1842	31.01%
Mn 257.610†	-91.3	-0.0007	mg/L	0.00006	-0.7217	µg/L	0.05678	7.87%
Mo 202.031†	-3.4	-0.0011	mg/L	0.00057	-1.052	µg/L	0.5733	54.51%
Na 589.592†	573.1	0.0331	mg/L	0.00097	33.05	µg/L	0.970	2.94%
Ni 231.604†	3.8	0.0006	mg/L	0.00097	0.5638	µg/L	0.96692	171.50%
Pb 220.353†	-2.0	-0.0014	mg/L	0.00027	-1.356	µg/L	0.2660	19.61%
Sb 206.836†	-15.7	-0.0255	mg/L	0.00524	-25.51	µg/L	5.244	20.56%
Se 196.026†	-5.1	-0.0101	mg/L	0.00530	-10.07	µg/L	5.301	52.62%
Sn 189.927†	-0.3	-0.0006	mg/L	0.00395	-0.5963	µg/L	3.95463	663.18%
Ti 334.940†	-41.9	-0.0003	mg/L	0.00010	-0.2698	µg/L	0.10134	37.56%
Tl 190.801†	-7.2	-0.0821	mg/L	0.00325	-82.06	µg/L	3.250	3.96%
V 292.402†	-2.2	-0.0001	mg/L	0.00012	-0.0625	µg/L	0.11508	184.06%
Zn 206.200†	-22.1	-0.0024	mg/L	0.00016	-2.359	µg/L	0.1551	6.58%
Li 670.784†	-175.1	-0.0009	mg/L	0.00005	-0.9411	µg/L	0.05421	5.76%
Sr 421.552†	64.1	0.0001	mg/L	0.00005	0.0535	µg/L	0.04639	86.75%

Sequence No.: 27
Sample ID: 1202003-10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 2/9/2012 12:34:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1202003-10

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	625421.5	107.6	%	0.28				0.26%
Ag 328.068†	-23.9						23.33	97.69%
Al 308.215†	-25.6	-0.0414	mg/L	0.00383	-41.41	µg/L	3.827	9.24%
As 188.979†	8.3	0.0237	mg/L	0.00680	23.65	µg/L	6.802	28.76%
B 249.677†	261.8	0.0218	mg/L	0.00061	21.82	µg/L	0.606	2.78%
Ba 233.527†	3379.5	0.2016	mg/L	0.00092	201.6	µg/L	0.92	0.46%
Be 313.107†	40.9	0.0001	mg/L	0.00002	0.0583	µg/L	0.01892	32.44%
Ca 317.933†	1443270.2	35.98	mg/L	0.217	35980	µg/L	217.0	0.60%
Cd 214.440†	-29.5	-0.0008	mg/L	0.00010	-0.8114	µg/L	0.09597	11.83%
Co 228.616†	-10.8	-0.0018	mg/L	0.00043	-1.767	µg/L	0.4297	24.32%
Cr 205.560†	29.4	0.0051	mg/L	0.00030	5.127	µg/L	0.2956	5.77%
Cu 327.393†	1.7	-0.0027	mg/L	0.00009	-2.679	µg/L	0.0871	3.25%
Fe 238.204†	44.3	0.0017	mg/L	0.00036	1.717	µg/L	0.3619	21.08%
K 766.490†	10124.6	1.456	mg/L	0.0065	1456	µg/L	6.5	0.45%
Mg 279.077†	29129.4	7.917	mg/L	0.0082	7917	µg/L	8.2	0.10%
Mn 257.610†	-73.0	-0.0006	mg/L	0.00010	-0.5767	µg/L	0.10237	17.75%
Mo 202.031†	-4.6	-0.0014	mg/L	0.00076	-1.417	µg/L	0.7613	53.71%
Na 589.592†	187350.9	10.81	mg/L	0.080	10810	µg/L	79.8	0.74%
Ni 231.604†	-6.5	-0.0010	mg/L	0.00066	-0.9612	µg/L	0.66417	69.10%
Pb 220.353†	-25.5	-0.0174	mg/L	0.00400	-17.43	µg/L	4.000	22.95%
Sb 206.836†	-9.6	-0.0188	mg/L	0.01041	-18.83	µg/L	10.407	55.26%
Se 196.026†	5.2	0.0103	mg/L	0.01200	10.32	µg/L	11.999	116.25%
Sn 189.927†	27.8	0.0109	mg/L	0.01313	10.92	µg/L	13.127	120.17%
Ti 334.940†	-48.5	-0.0003	mg/L	0.00014	-0.3126	µg/L	0.13972	44.70%
Tl 190.801†	3.9	0.0316	mg/L	0.02472	31.64	µg/L	24.721	78.12%

V 292.402†	18.1	0.0005 mg/L	0.00016	0.5239 µg/L	0.16475	31.45%
Zn 206.200†	11.7	0.0012 mg/L	0.00023	1.241 µg/L	0.2340	18.86%
Li 670.784†	2954.6	0.0159 mg/L	0.00053	15.88 µg/L	0.531	3.34%
Sr 421.552†	572615.0	0.4776 mg/L	0.00383	477.6 µg/L	3.83	0.80%

Sequence No.: 28
Sample ID: IBL
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/9/2012 12:38:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: IBL

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	610004.6	104.9	%	0.62				0.59%
Ag 328.068†	40.3						19.47	48.30%
Unable to evaluate QC.								
Al 308.215†	-25.8	-0.0069	mg/L	0.00263	-6.874	µg/L	2.6332	38.30%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	0.4	0.0011	mg/L	0.00085	1.067	µg/L	0.8520	79.87%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	37.6	0.0031	mg/L	0.00027	3.130	µg/L	0.2730	8.72%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	0.9	0.0001	mg/L	0.00013	0.0523	µg/L	0.13362	255.40%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	103.3	0.0001	mg/L	0.00003	0.1449	µg/L	0.03207	22.13%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	66.8	0.0017	mg/L	0.00337	1.665	µg/L	3.3668	202.18%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 214.440†	-12.5	-0.0003	mg/L	0.00009	-0.3449	µg/L	0.08726	25.30%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616†	-7.1	-0.0012	mg/L	0.00093	-1.169	µg/L	0.9326	79.74%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 205.560†	5.8	0.0010	mg/L	0.00022	1.020	µg/L	0.2153	21.12%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 327.393†	-16.7	-0.0005	mg/L	0.00041	-0.5152	µg/L	0.41396	80.35%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	9.9	0.0004	mg/L	0.00053	0.3854	µg/L	0.53164	137.95%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	-110.1	-0.0158	mg/L	0.00299	-15.83	µg/L	2.995	18.92%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	16.0	0.0044	mg/L	0.00431	4.351	µg/L	4.3139	99.15%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-18.4	-0.0001	mg/L	0.00023	-0.1452	µg/L	0.23058	158.76%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-1.9	-0.0006	mg/L	0.00133	-0.5785	µg/L	1.33310	230.45%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	196.8	0.0114	mg/L	0.00066	11.35	µg/L	0.657	5.79%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	6.3	0.0009	mg/L	0.00017	0.9364	µg/L	0.16811	17.95%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-1.9	-0.0013	mg/L	0.00275	-1.311	µg/L	2.7534	210.02%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-9.8	-0.0160	mg/L	0.00348	-15.98	µg/L	3.480	21.77%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-1.2	-0.0023	mg/L	0.00879	-2.277	µg/L	8.7882	385.92%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	1.6	0.0036	mg/L	0.00421	3.597	µg/L	4.2144	117.17%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	-10.2	-0.0001	mg/L	0.00007	-0.0657	µg/L	0.06762	102.88%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-4.9	-0.0559	mg/L	0.01880	-55.86	µg/L	18.804	33.66%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	4.2	0.0001	mg/L	0.00031	0.1218	µg/L	0.31437	258.06%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200†	-10.5	-0.0011	mg/L	0.00025	-1.118	µg/L	0.2501	22.37%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Li 670.784†	57.2	0.0003	mg/L	0.00009	0.3074	µg/L	0.09284	30.20%
QC value within limits for Li 670.784 Recovery = Not calculated								
Sr 421.552†	95.2	0.0001	mg/L	0.00003	0.0794	µg/L	0.02628	33.09%

QC value within limits for Sr 421.552 Recovery = Not calculated
All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 29
Sample ID: CCV@A/B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/9/2012 12:41:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV@A/B

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	613329.7	105.5	%	0.74				0.71%
Ag 328.068†	-274.3						6.36	2.32%
Al 308.215†	35701.6	9.473	mg/L	0.0825	9473	µg/L	82.5	0.87%
QC value less than the lower limit for Al 308.215 Recovery = 94.73%								
As 188.979†	2016.9	4.807	mg/L	0.0344	4807	µg/L	34.4	0.72%
QC value within limits for As 188.979 Recovery = 96.13%								
B 249.677†	28875.9	2.402	mg/L	0.0256	2402	µg/L	25.6	1.07%
QC value within limits for B 249.677 Recovery = 96.07%								
Ba 233.527†	39971.5	2.384	mg/L	0.0237	2384	µg/L	23.7	0.99%
QC value within limits for Ba 233.527 Recovery = 95.36%								
Be 313.107†	1744962.9	2.446	mg/L	0.0063	2446	µg/L	6.3	0.26%
QC value within limits for Be 313.107 Recovery = 97.82%								
Ca 317.933†	973131.1	24.26	mg/L	0.126	24260	µg/L	126.5	0.52%
QC value within limits for Ca 317.933 Recovery = 97.03%								
Cd 214.440†	85008.4	2.352	mg/L	0.0153	2352	µg/L	15.3	0.65%
QC value less than the lower limit for Cd 214.440 Recovery = 94.08%								
Co 228.616†	14481.5	2.380	mg/L	0.0194	2380	µg/L	19.4	0.82%
QC value within limits for Co 228.616 Recovery = 95.20%								
Cr 205.560†	27765.2	4.847	mg/L	0.0425	4847	µg/L	42.5	0.88%
QC value within limits for Cr 205.560 Recovery = 96.94%								
Cu 327.393†	157490.2	4.854	mg/L	0.0487	4854	µg/L	48.7	1.00%
QC value within limits for Cu 327.393 Recovery = 97.09%								
Fe 238.204†	250217.0	9.708	mg/L	0.0421	9708	µg/L	42.1	0.43%
QC value within limits for Fe 238.204 Recovery = 97.08%								
K 766.490†	164500.4	23.66	mg/L	0.059	23660	µg/L	59.0	0.25%
QC value less than the lower limit for K 766.490 Recovery = 94.63%								
Mg 279.077†	87866.6	23.88	mg/L	0.204	23880	µg/L	203.6	0.85%
QC value within limits for Mg 279.077 Recovery = 95.52%								
Mn 257.610†	613948.7	4.852	mg/L	0.0180	4852	µg/L	18.0	0.37%
QC value within limits for Mn 257.610 Recovery = 97.04%								
Mo 202.031†	1558.8	0.4844	mg/L	0.00271	484.4	µg/L	2.71	0.56%
QC value within limits for Mo 202.031 Recovery = 96.88%								
Na 589.592†	422244.6	24.35	mg/L	0.038	24350	µg/L	37.6	0.15%
QC value within limits for Na 589.592 Recovery = 97.42%								
Ni 231.604†	32847.8	4.853	mg/L	0.0391	4853	µg/L	39.1	0.81%
QC value within limits for Ni 231.604 Recovery = 97.06%								
Pb 220.353†	3444.7	2.344	mg/L	0.0239	2344	µg/L	23.9	1.02%
QC value less than the lower limit for Pb 220.353 Recovery = 93.78%								
Sb 206.836†	1571.3	2.437	mg/L	0.0366	2437	µg/L	36.6	1.50%
QC value within limits for Sb 206.836 Recovery = 97.47%								
Se 196.026†	1247.6	2.467	mg/L	0.0240	2467	µg/L	24.0	0.97%
QC value within limits for Se 196.026 Recovery = 98.70%								
Sn 189.927†	1123.3	2.441	mg/L	0.0205	2441	µg/L	20.5	0.84%
QC value within limits for Sn 189.927 Recovery = 97.66%								
Ti 334.940†	76270.1	0.4911	mg/L	0.00452	491.1	µg/L	4.52	0.92%
QC value within limits for Ti 334.940 Recovery = 98.21%								
Tl 190.801†	214.6	2.368	mg/L	0.0463	2368	µg/L	46.3	1.96%
QC value less than the lower limit for Tl 190.801 Recovery = 94.70%								
V 292.402†	41929.8	1.214	mg/L	0.0099	1214	µg/L	9.9	0.82%
QC value within limits for V 292.402 Recovery = 97.16%								
Zn 206.200†	90363.2	9.628	mg/L	0.0775	9628	µg/L	77.5	0.81%
QC value within limits for Zn 206.200 Recovery = 96.28%								
Li 670.784†	438143.1	2.355	mg/L	0.0044	2355	µg/L	4.4	0.19%
QC value within limits for Li 670.784 Recovery = 94.18%								
Sr 421.552†	2900939.0	2.419	mg/L	0.0195	2419	µg/L	19.5	0.81%
QC value within limits for Sr 421.552 Recovery = 96.78%								

QC Failed. Retry.

1202003-13 → 20 24 → 30

ICP-MS METALS Technical Review Checklist

(200.8, 6020)

For Internal Use Only

Site Name: Dimock WO#: 1202003

Analyst: Preston Date given to Reviewer:

Matrix (circle): Solid / Aqueous / Other SOP R3QA116-021511 / R3QA155-021511

Program (circle): Superfund / RCRA / WPD (NPDES) / SDWA / Other:

→ 13-31

The signature below indicates the following:

- This data meets the needs of the customer according to the request.
- The analysis was performed as per the SOP, or exceptions documented.
- All documentation needed to recreate the analyses has been reviewed.
- Data Review status set to Peer Reviewed in Element.

also 1202001-27 only ✓ 2/13/12

Peer Reviewer signature Joe Dougherty Date accepted 2/13/12

If any data for this case is stored with another case file, give Site Name and WO#

Peer Reviewer Completes Section Below:

General:	YES	NO	N/A	Comments
Raw data is identified with sample ID's, site name, WO#, analyst name, date of analysis.	✓			
Quality Control:				
Initial calibration ≥ .995	✓			
Meas. PK Width .6 to .7 amu	✓			
Exact Mass & Meas. Mass within 1 amu	✓			
Internal Stds 60-125%	✓			
SCV ±10%;	✓			
CCV ±10% , 10% frequency, and end of run; (If CCV fails at <±15%, can keep the data but have to recalibrate before continuing, or qualify data.)	✓			
LCV ±50% ;	✓			
IBL < |Reporting limit|, analyzed with each CCV;	✓			
BS (LCS) ±15%	✓			
SRM within vendor acceptance limits;			✓	
BLK < |Reporting limit|; (if >Reporting Limit **and** >1/10 of sample - must qualify)	✓			
MS [∓30%] unless spike is <30% of sample value;	✓			
RPDs from DUP ≤ 20% aqueous & 35% soils;	✓			

Sample results < CAL or within documented linear range; ✓

Calculations/Report:

Calculations and transcriptions checked. ✓

Element Draft Report reviewed. ✓

Deviations and problems documented. ✓

NOTE: When soils are being reported, the *sample qualifier* 'dry' or 'wet' must be entered so that it appears in the header of the Element report. This will signify that the data was report 'wet weight' or 'dry weight' as appropriate.

Additional Comments by Peer Reviewer:

Analyst Ensures that the Data Case File is Complete and Accurate:

- ✓ Bench sheet
- ✓ Calibration report
- ✓ Instrument run log
- ✓ Standard/Reagent Prep log
- ✓ Daily Performance Report
- ✓ TV sheets
- ✓ Element Peer Review report
- ✓ Raw data
- ✓ Data status set to analyzed
- ✓ Tune Report

Additional Comments by Analyst on data issues:

Use BS for U SCV

DIM0216291 DIM0216752

On-Demand Data Checklist
(used in addition to routine TRC)
For Internal Use Only

Parameter: U
Procedure/Method/Reference: 200.8

Site Name: Dimock WO#: 1202003
Analyst: R Costa

13-31
+ 1202001-27

The signature below indicates the following:
• The analysis was performed as per the On-Demand requirements below.

Peer Reviewer signature [signature] Date accepted 2/13/12

Peer Reviewer Completes Section Below:

Quality Control:	**YES**	**NO**	**N/A**	**Comments**
The case file must explain why this is a non-routine request	✓			

This is a special request which falls outside our routine protocols. Therefore, these samples were analyzed and the quality control (QC) were evaluated based on the "On Demand" criteria. These protocols include all the QC checks as per routine analyses plus special verification of the performance of the analytical method at the reported quantitation limit/s. These protocols are specified in the EPA Region III OASQA Laboratory Quality Manual, current version.

A written procedure or reference must be available for the method being performed and referenced in the narrative. If the method to be performed is unique, the procedures must be fully documented.	✓			
Calibration of the instrumentation or analytical procedure must be according to the method or procedure.	✓			
Calibration verified by analysis of second source standard (SCV,SRM), if available. Concentration must be in the range of the calibration. Results must be within the method, procedure, client or in-house limits.	✓			
Analysis of one method blank (BLK) with each batch. Ideally, the results should be less than the expected quantitation levels set by the method, procedure, or in-house requirements.	✓			
Analysis of one matrix spike (MS) with each batch. For samples or parameters which do not lend themselves to matrix spiking, a BS or SRM sample must be analyzed. Results of spikes must be within the method, procedure, client or in-house limits.	✓			

Analysis of one duplicate analyses (DUP) or a quality control sample such as an SRM or BS with each batch. If duplicate analyses is not possible, e.g.,

insufficient sample quantity, a quality control sample must be analyzed in duplicate, if available. Results of duplicate analyses must be within the method, procedure, client or in-house limits. ✓

At least one blank spike (BS) must be carried through the entire method and analyzed with each batch. The concentration of the BS should be at the quantitation level or at the level of the expected sample results, if known. Results of the BS must be within the method, procedure, client or in-house limits. ✓

Any additional quality control items, such as surrogates, internal standards, etc., which the referenced method or procedure requires should be analyzed. Results must be within the method or, procedure limits. ✓

The analyst must document the impact on the usability of the reported data by applying qualifier codes if applicable and including a summary in the case file. ✓

Additional Comments:

DIM0216291 DIM0216754

ICP-MS ELAN 6100 RUN LOG

Computer Name: D0303SLABF103A
Dataset File Path: C:\Elandata\DataSet\EL120210\
Optimization File: C:\Elandata\Optimize\epa.dac
Tuning File: C:\Elandata\Tuning\epa.tun
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Report Date/Time: Friday, February 10, 2012 13:36:40
Batch ID: WO# 1202003
Analyst: R.COSTAS
Site: DIMOCK
Inst Run: EL120210

R Costas 2.10.12

Matrix HNO3/HCl. Samples diluted 2.5X unless otherwise noted below. __X___

Matrix 1% nitric. No dilution unless indicated below. _____

The Dataset

Batch ID	Description	Sample ID	Date and Time	Samp. File Name	Read Type
		Blank	08:32:22 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\Blank.001	Blank
		Blank	08:37:45 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\Blank.002	Blank
		Standard 1	08:42:57 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\Standard 1.003	Standard #1
		Standard 2	08:48:09 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\Standard 2.004	Standard #2
		Standard 3	08:53:23 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\Standard 3.005	Standard #3
		QC Std 2	08:58:47 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\QC Std 2.006	QC Std #2
		QC Std 4	09:04:00 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\QC Std 4.007	QC Std #4
		QC Std 5	09:09:13 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\QC Std 5.008	QC Std #5
		Blank	09:15:08 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\Blank.009	Blank
		Standard 1	09:20:20 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\Standard 1.010	Standard #1
		Standard 2	09:25:33 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\Standard 2.011	Standard #2
		Standard 3	09:30:47 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\Standard 3.012	Standard #3
		QC Std 2	09:36:11 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\QC Std 2.013	QC Std #2
		Blank	09:56:49 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\Blank.014	Blank
		Standard 1	10:02:01 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\Standard 1.015	Standard #1
		Standard 2	10:07:14 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\Standard 2.016	Standard #2
		Standard 3	10:12:28 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\Standard 3.017	Standard #3
		QC Std 2	10:17:52 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\QC Std 2.018	QC Std #2
		QC Std 4	10:23:04 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\QC Std 4.019	QC Std #4
		QC Std 5	10:28:18 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\QC Std 5.020	QC Std #5
		QC Std 6	10:33:31 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\QC Std 6.021	QC Std #6
		QC Std 7	10:38:27 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\QC Std 7.022	QC Std #7
		BB20803-BLK1	10:45:22 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\BB20803-BLK1.023	Sample
		BB20803-BS1	10:50:42 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\BB20803-BS1.024	Sample
		1202001-27	10:56:02 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\1202001-27.025	Sample
		~~1202001-28~~	11:01:24 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\1202001-28.026	Sample
		1202003-13	11:06:45 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\1202003-13.027	Sample
		1202003-14	11:12:07 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\1202003-14.028	Sample
		~~1202003-15~~	11:17:30 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\1202003-15.029	Sample
		1202003-~~16~~ 15	11:22:49 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\1202003-16.030	Sample
		1202003-~~17~~ 16	11:28:05 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\1202003-17.031	Sample
		~~BB20803-MS1~~	11:33:21 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\BB20803-MS1.032	Sample
		QC Std 2	11:38:33 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\QC Std 2.033	QC Std #2
		QC Std 4	11:43:46 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\QC Std 4.034	QC Std #4
		~~1202003-18~~	11:49:02 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\1202003-18.035	Sample
		1202003-~~19~~ 18	11:54:20 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\1202003-19.036	Sample
		1202003-~~20~~ 19	11:59:37 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\1202003-20.037	Sample

Don't Use

Don't Report

BB20803-Dup1

1202003-17

BB20803-MS1

RC 2/13/12

1202003-20	12:05:57 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\1202003-20.038	Sample
1202003-24	12:11:15 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\1202003-24.039	Sample
1202003-25	12:16:34 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\1202003-25.040	Sample
1202003-26	12:21:54 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\1202003-26.041	Sample
BB20803-DUP3	12:27:14 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\BB20803-DUP3.042	Sample
1202003-27	12:32:34 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\1202003-27.043	Sample
1202003-28	12:37:55 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\1202003-28.044	Sample
BB20803-MS3	12:43:16 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\BB20803-MS3.045	Sample
1202003-29	12:48:38 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\1202003-29.046	Sample
1202003-30	12:54:00 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\1202003-30.047	Sample
QC Std 2	12:59:16 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\QC Std 2.048	QC Std #2
QC Std 4	13:04:28 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\QC Std 4.049	QC Std #4
1202003-31	13:09:44 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\1202003-31.050	Sample
30 -	13:15:10 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\30.051	Sample
QC Std 2	13:20:22 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\QC Std 2.052	QC Std #2
QC Std 4	13:25:34 Fri 10-Feb-12	C:\Elandata\DataSet\EL120210\QC Std 4.053	QC Std #4

don't report
RC 2.27.12

Ran 1202001 -28 -30 to confirm sample - 27

EPA - OASQA - ICP-MS Standard/Reagent Preparation

Perkin Elmer ELAN 6100

Analyst: R Costner Date: 2-10-12 Pipets Logbook # 11

Run Filename E2120210 (all electronic files saved using Run Filename) SOP #: R3-QA116

SITE/WO#: Dimock WO 1202001+1202003 Reagent purity checked ✓

* See Certificates of Analysis for analytes and concentrations. 4-27 only ✓

** Matrix of IBL and calibration standards: 0.8% nitric/0.4% HCl (0.8 mL/ 0.4mL to 100 mL final vol) _____

IBL made daily. **OR** 1% nitric (1mL to 100mL final vol) _____

****SCV (made daily): Single solution made with both stocks and diluted to volume with IBL.**

*Stock Solution	Expiration Date	Stock Conc	Vendor	Bar Code	Stock Volume	Final Volume	Final Conc
QC-7A	1-2013	100 mg/L 50 mg/L Ag 1000 mg/L K	Spex	13853	50 µl	50 ml	see TV sheet
QC-21	1-2013	100 mg/L	Spex	13852	50 µl	50 ml	see TV sheet

Internal Standards Mixed Solution (made daily). Matrix = 1% nitric (2 mL conc. nitric to 200 mL final volume)

Stock Solution	Stock Conc	Vendor	Bar Code	Stock Volume	Final Conc
Germanium	10 mg/L	Claritas	12704	4 mL	0.200 mg/L
* IS Multi-Mix	10 mg/L	Claritas	6403	0.8 mL	0.04 mg/L
Scandium	10 mg/L	Claritas	12703	2.0 mL	0.08 mg/L
Lithium 6	100 mg/L	Claritas	11126	2 mL	1.0 mg/L

MIN Mixed Stock Solution **Date made:** 2-2011
Matrix = 1% nitric (1 mL conc. nitric to 100 mL final volume) **Prepared by:** RC

Stock Solution	Stock Conc	Vendor	Bar Code	Stock Volume	Final Conc
Iron	10000 mg/L	High Purity	11886	10 mL	1000 mg/L
Calcium	10000 mg/L	High Purity	10171	10 mL	1000 mg/L
Magnesium	10000 mg/L	High Purity	10172	10 mL	1000 mg/L
Potassium	10000 mg/L	High Purity	11885	10 mL	1000 mg/L
Sodium	10000 mg/L	High Purity	11808	10 mL	1000 mg/L

CAL4 Mixed Stock Solution **Date made:** 5-2011
Matrix = 2% nitric 2%HCl (2 mL conc. to 100 mL final volume) **Prepared by:** RC
1ml of 10mg/L stock to 100mL for 100 µg/L

Stock Solution	Stock Conc	Vendor	Bar Code	Stock Volume	Final Conc
Bromide	1000 ppm	High Purity	10048	1 mL	10 mg/L
Boron	5000 ppm	High Purity	5508	0.2 mL	10 mg/L
Strontium	1000 ppm	High Purity	11882	1.0 mL	10 mg/L
Tin	10,000 ppm	High Purity	5616	0.1 ml	10 mg/L

**** CAL3 Mixed Stock Solution of 500 mL final volume** **Date made:** **Prepared by:** RC 1-12

*Stock Solution	Stock Conc	Vendor	Bar Code	Stock Volume	Final Conc
2008 CAL-1	20 mg/L	Spex	13851	2.5 mL	100 µg/L
MIN	1000 mg/L	see above	see above	5 mL	10 mg/L
CAL-4	10 mg/L	see above	see above	5 ml (1ml of 10mg/l stock to 100mL to run as separate CAL-4 standard	100 µg/L run as separate standard: ☐

EPA - OASQA - ICP-MS Standard/Reagent Preparation

Perkin Elmer ELAN 6100

** Calibration Standards (made daily)			
Solution ID	**Prepared by diluting:**	**with IBL**	**CAL Final Conc. (CAL / MIN) (see true value sheet)**
CAL 1	CAL 2	5X	10 µg/L / 1 mg/L
CAL 2 / CCV	CAL 3	2X	50 µg/L / 5 mg/L
CAL 3	-	na	100 µg/L / 10 mg/L

LCV Standard Preparation (made daily) Matrix will be same as IBL.			
LCV Standard Preparation (made daily) Matrix will be same as IBL.			
Concentration (CAL / MIN) (see true value sheet)	**Prepared by diluting:**	**to Final volume with IBL**	**Used? √**
LCV (0.4 µg/L / 0.04 mg/L)	0.4 mL of CAL 1	10 mL	✓
LCV (0.8 µg/L / 0.08 mg/L)	0.8 mL of CAL 1	10 mL	✓
LCV (1.0 µg/L)	2x of LCV (2.0 µg/L)		
LCV (2.0 µg/L / 0.2 mg/L)	0.4 mL of CAL 2	10 mL	
LCV (4.0 µg/L / 0.4 mg/L)	0.4 mL of CAL 3	10 mL	

Reagent Acid Stocks					
	Vendor	**Bar Code**		**Vendor**	**Bar Code**
Nitric Acid	**Fisher**	**11152**	**HCl Acid**	**Fisher**	**11148**

Other solutions									
Solution	**Stock Solution**	**Stock Conc**	**Vendor**	**Bar Code**	**Stock Volume**	**Final Volume**	**Final Conc**	**Date/ Initials**	**Acid Conc**

* See Certificate of Analysis for analytes.

Certificates of Analysis Logbook #_____2_____

Comments:_____

OASQA TRUE VALUES for ICP-MS Standards and QC

ICP-MS OASQA QL (ppb) ILM5.4/ISM1.2	ICPMS OASQA QL(ppb) SDWA		QCStd 2 CCV +10% ppb	QCStd 5 SCV +10% ppb	SDWA Primary MCL ppb	LCV +50% ppb (2.5x diluted value) Lowest possible values are listed	BS = MS +15% / +30% ppb (2.5x diluted value)
1.0		Ag	50	50		0.4	2/5
20		Al	50	100		0.4	80/200
1.0	2.0	As	50	100	10	0.4	20/50
		B	50 CAL4	100		0.4	20/50
10	100	Ba	50	100	2000	0.4	80/200
1.0	1.0	Be	50	100	4	0.4	2/5
		Br	50 CAL4	*		10	*
1.0	1.0	Cd	50	100	5	0.4	2/5
1.0		Co	50	100		0.4	20/50
2.0	5.0	Cr	50	100	100	0.4	20/50
2.0	5.0	Cu	50	100	50 = POL	0.4	20/50
1.0		Mn	50	100		0.4	20/50
		Mo	50	100		0.4	20/50
1.0		Ni	50	100		0.4	20/50
		Li	*	100		*	*
1.0	2.0	Pb	50	100	5 = POL	0.4	20/50
2.0	5.0	Sb	50	100	6	0.4	20/50
5.0	5.0	Sc	50	100	50	0.4	20/50
		Sn	50 CAL4	*		10	20/50
		Sr	50 CAL4	100		0.4	20/50
1.0	2.0	Tl	50	100	2	0.4	20/50
		U	50	*		0.4	20/50
5.0		V	50	100		0.4	20/50
2.0		Zn	50	100		0.4	20/50
if requested			ppm	ppm	ppm	ppm	ppm
2000	1000	Na	5.00 MIN	0.1	no MCL	0.4	0.4/1.0
2000		Mg	5.00 MIN	0.1		0.4	0.4/1.0
2000		K	5.00 MIN	1.0		0.4	0.8/2.0
2000		Ca	5.00 MIN	0.1		0.4	0.4/1.0
100		Fe	5.00 MIN	0.1		0.4	0.2/0.5

*added separately to solution

Making CAL Standards

QC Std 1 (CAL1) = 10ppb/1ppm (5x of 50ppb)
QC Std 2 (CAL2/CCV) = 50ppb/5ppm (2x of 100ppb)
QC Std 3 (CAL3) = 100ppb/10ppm
QC Std 4 = Blank = ± LCV

LCV (diluted value)	x 2.5
0.4 ppb (0.4 ppm)= 0.4ml of 10 ppb (CAL1) to 10ml	1.0 (0.10)
0.8 ppb (0.8 ppm) =0.8ml of 10 ppb (CAL1) to 10ml	2.0 (0.20)
1.0 ppb (0.1 ppm) = 2x dilutionof 2.0 ppb	2.5 (0.25)
2.0 ppb (0.2 ppm) =0.4ml of 50 ppb (CAL2) to 10ml	5.0 (0.50)

DIM0216291 DIM0216759

QC Std 1	CAL
QC Std 2	CAL/CCV
QC Std 3	CAL
QC Std 4	IBL
QC Std 5	SCV
QC Std 6	LCV (tv=0.4ppb)
QC Std 7	LCV (tv=0.8ppb)
QC Std 8	LCV (tv=1.0ppb)
QC Std 9	LCV (tv=2.0ppb)
QC Std 10	BLK
QC Std 11	BS (digested)
QC Std 12	BS (undigested)

ELAN 6100 Quantitative Analysis Calibration Report

File Name: EL120210.cal
File Path: C:\Elandata\System\EL120210.cal
Calibration Type: External Calibration
WO#: 1202003
SITE: DIMOCK

Calibration File Name

File Name EL120210.cal

Method File Name

File Name 2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Path C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Be r	9.012	Linear Thru Zero	0.00	0.00	0.999991
Li u	6.015	Linear Thru Zero	0.00	0.00	0.000000
Li	6.015	Linear Thru Zero	0.00	0.00	0.000000
Be	9.012	Linear Thru Zero	0.00	0.00	1.000000
B	11.009	Linear Thru Zero	0.00	0.00	0.999957
Al	26.982	Linear Thru Zero	0.02	0.00	0.999991
Sc	44.956	Linear Thru Zero	0.00	0.00	0.000000
V r	50.944	Linear Thru Zero	0.03	0.00	0.999998
V u	50.944	Linear Thru Zero	0.03	0.00	0.999990
Cr r	51.941	Linear Thru Zero	0.02	0.00	0.999997
Cr	52.941	Linear Thru Zero	0.00	0.00	0.999879
Mn	54.938	Linear Thru Zero	0.04	0.00	0.999967
Co	58.933	Linear Thru Zero	0.03	0.00	0.999976
Ni r	59.933	Linear Thru Zero	0.01	0.00	0.999986
Ni	61.928	Linear Thru Zero	0.00	0.00	0.999987
Cu r	62.930	Linear Thru Zero	0.01	0.00	0.999992
Cu	64.928	Linear Thru Zero	0.00	0.00	0.999956
Zn r	65.926	Linear Thru Zero	0.01	0.00	0.999910
Zn	66.927	Linear Thru Zero	0.00	0.00	0.999384
Zn	67.925	Linear Thru Zero	0.01	0.00	0.999876
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
As r	74.922	Linear Thru Zero	0.01	0.00	0.999968
As u	74.922	Linear Thru Zero	0.01	0.00	0.999998
Se r	81.917	Linear Thru Zero	0.00	0.00	0.999882
Se	76.920	Linear Thru Zero	0.00	0.00	0.999973
Sr	87.906	Linear Thru Zero	0.17	0.00	0.999932
Ag r	106.905	Linear Thru Zero	0.04	0.00	0.999972
Ag	108.905	Linear Thru Zero	0.04	0.00	0.999998
Cd r	110.904	Linear Thru Zero	0.01	0.00	0.999987
Cd	105.907	Linear Thru Zero	0.00	0.00	0.999995
Cd	107.904	Linear Thru Zero	0.00	0.00	0.999963
Cd	113.904	Linear Thru Zero	0.02	0.00	0.999992
Cd u	110.904	Linear Thru Zero	0.01	0.00	0.999985
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Sb r	122.904	Linear Thru Zero	0.02	0.00	0.999965
Sb	120.904	Linear Thru Zero	0.03	0.00	0.999962
Sn	117.902	Linear Thru Zero	0.02	0.00	0.999982
Sn r	119.902	Linear Thru Zero	0.03	0.00	1.000000
Ba r	136.905	Linear Thru Zero	0.01	0.00	0.999986

Ba	134.906	Linear Thru Zero	0.01	0.00	0.999995
Tb	158.925	Linear Thru Zero	0.00	0.00	0.000000
Tl r	204.975	Linear Thru Zero	0.06	0.00	1.000000
Tl	202.972	Linear Thru Zero	0.03	0.00	0.999999
U	238.050	Linear Thru Zero	0.11	0.00	0.999908
Pb	207.977	Linear Thru Zero	0.08	0.00	0.999953
Na	22.990	Linear Thru Zero	18.40	0.00	0.999999
Mg	23.985	Linear Thru Zero	13.00	0.00	0.999998
K	38.964	Linear Thru Zero	31.88	0.00	0.999984
Ca	43.956	Linear Thru Zero	0.88	0.00	0.998516
Fe	53.940	Linear Thru Zero	2.15	0.00	0.999356
Sc-1	44.956	Linear Thru Zero	0.00	0.00	0.000000
Kr	82.914	Linear Thru Zero	0.00	0.00	0.000000
Cl	34.969	Linear Thru Zero	0.00	0.00	0.000000
C	12.000	Linear Thru Zero	0.00	0.00	0.000000
Y	88.905	Linear Thru Zero	0.00	0.00	0.000000
Br	78.918	Linear Thru Zero	0.00	0.00	0.999994
Br	80.916	Linear Thru Zero	0.00	0.00	0.999861
Ge-1	71.922	Linear Thru Zero	0.00	0.00	0.000000
Ru	98.906	Linear Thru Zero	0.00	0.00	0.000000
Pd	104.905	Linear Thru Zero	0.00	0.00	0.000000
Ho	164.930	Linear Thru Zero	0.00	0.00	0.000000
Th	232.038	Linear Thru Zero	17256.14	0.00	0.999796
Mo	94.906	Linear Thru Zero	0.01	0.00	0.999982
Mo	96.906	Linear Thru Zero	0.01	0.00	0.999960
Mo r	97.906	Linear Thru Zero	0.02	0.00	0.999960
Rh	102.905	Linear Thru Zero	0.00	0.00	0.000000
In-1	114.904	Linear Thru Zero	0.00	0.00	0.000000
Ti	46.952	Linear Thru Zero	0.00	0.00	0.000000
Li	7.016	Linear Thru Zero	0.00	0.00	0.000000

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Method Equation

Analyte	MassCorrections
Li	6.015-0.0811*Li 7
V r	50.944-2.95*(ClO53 -(0.113*Cr52))
As r	74.922-3.127*(ArCl 77-(0.873*Se 82))
Se r	81.917-1.008696*kr83
Se	76.920 - 1.007833 * Kr 83
Cd r	110.904-1.073*(MoO 108 - (0.712*Pd 106))
Cd	105.907 - 1.223914 * Pd 105
Cd	107.904 - 1.184953 * Pd 105
Cd	113.904 - 0.026826 * Sn 118
In	114.904 - 0.014032 * Sn 118
Sb r	122.904 - 0.127189 * Te 125
Pb	207.977+1*Pb 206 + 1*Pb 207
Fe	53.940 - 0.028226 * Cr 52
Mo r	97.906 - 0.110588 * Ru 101
In-1	114.904 - 0.014032 * Sn 118

Tuning File Name

Tuning File Name epa.tun
Tuning File Path C:\Elandata\Tuning\epa.tun

Tuning File

Analyte	E Mass	Meas Mass	Mass C DAC Val	Res DAC Value	Meas Peak W	Custom Res
He	3.016	3.025	603	2080		0.635
Mg	23.985	23.979	5713	2040		0.647
Rh	102.905	102.979	24982	1980		0.672
Ce	139.905	139.928	33966	2030		0.632
Pb	207.977	208.078	50448	2220		0.672
U	238.050	238.025	57660	2350		0.693

ELAN 6100 Daily Performance Report

Sample ID: Sample
Sample Date/Time: Friday, February 10, 2012 08:16:49
Sample Description:
Method File: C:\Elandata\Method\EPA\epa Daily.mth
Dataset File: C:\Elandata\Dataset\Daily Performance\Sample.124
Tuning File: C:\Elandata\Tuning\epa.tun
Optimization File: C:\Elandata\Optimize\epa.dac
Dual Detector Mode: Dual

Acq. Dead Time(ns): 65
Current Dead Time (ns): 65

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Be	9.0	3219.2	3219.207	21.536	0.7
	Co	58.9	78136.9	78136.864	629.526	0.8
	Mg	24.0	36862.0	36861.981	232.444	0.6
	Rh	102.9	137610.0	137610.050	1317.578	1.0
	In	114.9	165249.8	165249.759	840.310	0.5
	Pb	208.0	79158.7	79158.685	374.872	0.5
⌈>	Ba	137.9	137430.5	137430.515	383.326	0.3
⌊	Ba++	69.0	2070.4	0.015	0.000	0.8
⌈>	Ce	139.9	175607.7	175607.736	569.585	0.3
⌊	CeO	155.9	5100.5	0.029	0.001	2.8
	Bkgd	220.0	1.3	1.333	0.333	25.0
	C	12.0	408381.5	408381.474	1968.435	0.5
	C	13.0	6192.0	6191.958	49.132	0.8
	U	238.1	183311.9	183311.916	1334.859	0.7
	Kr	83.9	780.5	780.469	37.029	4.7
	Kr	82.9	158.2	158.165	9.930	6.3

Current Optimization File Data

Current Value	Description
0.89	Nebulizer Gas Flow
7.00	Lens Voltage
1100.00	ICP RF Power
-2250.00	Analog Stage Voltage
1900.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	29	7.3	3487.8
Co	59	29	8.0	71251.5
In	115	29	8.8	157632.7

DIM0216291 DIM0216765

Instrument Tuning Report

File Name: epa.tun
File Path: C:\Elandata\Tuning\epa.tun

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.025	603	2080	0.635	
Mg	23.985	23.979	5713	2040	0.647	
Rh	102.905	102.979	24982	1980	0.672	
Ce	139.905	139.928	33966	2030	0.632	
Pb	207.977	208.078	50448	2220	0.672	
U	238.050	238.025	57660	2350	0.693	

DIM0216291 DIM0216767

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Blank

Sample Description:
Autosampler Position: 1
Sample Date/Time: Friday, February 10, 2012 08:32:22
Dataset File: C:\Elandata\Dataset\EL120210\Blank.001
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

DO NOT USE - start at BLANK.014

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	1.333			ug/L	
|>	Li u	6	333483.982			ug/L	
⌞	Li	6	331736.979			ug/L	
⌜	Be	9	1.333			ug/L	
|	B	11	111.002			ug/L	
|	Al	27	1701.207			ug/L	
|>	Sc	45	297622.315			ug/L	
|	V r	51	-1669.747			ug/L	
|	V u	51	74273.382			ug/L	
|	Cr r	52	8765.081			ug/L	
|	Cr	53	26317.771			ug/L	
|	Mn	55	350.345			ug/L	
|	Co	59	40.334			ug/L	
|	Ni r	60	44.001			ug/L	
|	Ni	62	75.001			ug/L	
|	Cu r	63	307.676			ug/L	
⌞	Cu	65	155.003			ug/L	
⌜	Zn r	66	295.342			ug/L	
|	Zn	67	944.403			ug/L	
|	Zn	68	314.676			ug/L	
|>	Ge	72	86011.405			ug/L	
|	As r	75	-86.259			ug/L	
|	As u	75	6121.503			ug/L	
|	Se r	82	-4.571			ug/L	
|	Se	77	1986.242			ug/L	
⌞	Sr	88	188.004			ug/L	
⌜	Ag r	107	42.001			ug/L	
|	Ag	109	33.000			ug/L	
|	Cd r	111	113.910			ug/L	
|	Cd	106	-1697.962			ug/L	
|	Cd	108	-1777.695			ug/L	
|	Cd	114	17.118			ug/L	
|	Cd u	111	9.667			ug/L	
|>	In	115	158382.648			ug/L	
|	Sb r	123	50.407			ug/L	
⌞	Sb	121	52.334			ug/L	

⌈	Sn	118	95.002	ug/L
|	Sn r	120	133.002	ug/L
|	Ba r	137	37.667	ug/L
|	Ba	135	21.334	ug/L
|>	Tb	159	190267.651	ug/L
|	Tl r	205	201.005	ug/L
|	Tl	203	74.334	ug/L
|	U	238	30.000	ug/L
L	Pb	208	720.687	ug/L
⌈	Na	23	31344.804	mg/L
|	Mg	24	547.692	mg/L
|	K	39	592459.215	mg/L
|	Ca	44	11964.421	mg/L
|	Fe	54	24023.416	mg/L
L>	Sc-1	45	297622.315	ug/L
	Kr	83	180.671	ug/L
	Cl	35	29213362.208	mg/L
	C	12	346974.938	mg/L
	Y	89	157934.112	ug/L
⌈	Br	79	1994.612	ug/L
|	Br	81	15508.106	ug/L
L>	Ge-1	72	86011.405	ug/L
	Ru	99	2.000	ug/L
	Pd	105	1504.162	ug/L
	Ho	165	185055.193	ug/L
	Th	232	64.334	ug/L
⌈	Mo	95	73.668	ug/L
|	Mo	97	49.334	ug/L
|	Mo r	98	102.300	ug/L
|	Rh	103	14.000	ug/L
L>	In-1	115	158382.648	ug/L
	Ti	47	151.003	ug/L
	Li	7	21541.337	mg/L

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Blank

Sample Description:
Autosampler Position: 1
Sample Date/Time: Friday, February 10, 2012 08:37:45
Dataset File: C:\Elandata\Dataset\EL120210\Blank.002
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	1.000			ug/L	
|>	Li u	6	339178.710			ug/L	
⌞	Li	6	337427.506			ug/L	
⌜	Be	9	1.000			ug/L	
|	B	11	89.668			ug/L	
|	Al	27	1545.504			ug/L	
|>	Sc	45	294195.845			ug/L	
|	V r	51	-247.948			ug/L	
|	V u	51	89174.527			ug/L	
|	Cr r	52	9264.005			ug/L	
|	Cr	53	31133.286			ug/L	
|	Mn	55	397.681			ug/L	
|	Co	59	38.000			ug/L	
|	Ni r	60	40.667			ug/L	
|	Ni	62	71.668			ug/L	
|	Cu r	63	186.004			ug/L	
⌞	Cu	65	90.668			ug/L	
⌜	Zn r	66	198.338			ug/L	
|	Zn	67	1662.532			ug/L	
|	Zn	68	269.674			ug/L	
|>	Ge	72	85936.557			ug/L	
|	As r	75	-277.037			ug/L	
|	As u	75	6693.981			ug/L	
⌜	Se r	82	13.540			ug/L	
|	Se	77	2185.065			ug/L	
⌞	Sr	88	166.003			ug/L	
⌜	Ag r	107	29.000			ug/L	
|	Ag	109	23.334			ug/L	
|	Cd r	111	119.179			ug/L	
|	Cd	106	-1640.622			ug/L	
|	Cd	108	-1729.645			ug/L	
|	Cd	114	14.550			ug/L	
|	Cd u	111	8.667			ug/L	
|>	In	115	159650.063			ug/L	
|	Sb r	123	52.243			ug/L	
⌞	Sb	121	50.334			ug/L	

⌈	Sn	118	91.335	ug/L
|	Sn r	120	119.335	ug/L
|	Ba r	137	35.334	ug/L
|	Ba	135	20.667	ug/L
|>	Tb	159	194934.341	ug/L
|	Tl r	205	198.005	ug/L
|	Tl	203	85.668	ug/L
|	U	238	14.667	ug/L
⌊	Pb	208	561.680	ug/L
⌈	Na	23	27576.283	mg/L
|	Mg	24	538.024	mg/L
|	K	39	576067.178	mg/L
|	Ca	44	12689.588	mg/L
|	Fe	54	23613.417	mg/L
⌊>	Sc-1	45	294195.845	ug/L
	Kr	83	168.004	ug/L
	Cl	35	28525288.299	mg/L
	C	12	338586.831	mg/L
	Y	89	158600.945	ug/L
⌈	Br	79	2020.619	ug/L
|	Br	81	15675.447	ug/L
⌊>	Ge-1	72	85936.557	ug/L
	Ru	99	1.333	ug/L
	Pd	105	1462.487	ug/L
	Ho	165	189956.432	ug/L
	Th	232	65.334	ug/L
⌈	Mo	95	75.001	ug/L
|	Mo	97	49.334	ug/L
|	Mo r	98	121.411	ug/L
|	Rh	103	10.333	ug/L
⌊>	In-1	115	159650.063	ug/L
	Ti	47	169.670	ug/L
	Li	7	21593.147	mg/L

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Standard 1

Sample Description:
Autosampler Position: 2
Sample Date/Time: Friday, February 10, 2012 08:42:57
Dataset File: C:\Elandata\Dataset\EL120210\Standard 1.003
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	3050.302	1.000	10.000	ug/L	2.380
|>	Li u	6	328605.681	339178.710		ug/L	
⌊	Li	6	326906.281	337427.506		ug/L	
⌈	Be	9	3050.302	1.000	10.000	ug/L	2.546
|	B	11	3811.649	89.668	10.000	ug/L	2.333
|	Al	27	39285.790	1545.504	10.000	ug/L	0.701
|>	Sc	45	294394.953	294195.845		ug/L	
|	V r	51	63424.367	-247.948	10.000	ug/L	2.107
|	V u	51	155981.409	89174.527	10.000	ug/L	2.907
|	Cr r	52	63049.301	9264.005	10.000	ug/L	1.083
|	Cr	53	38279.075	31133.286	10.000	ug/L	8.212
|	Mn	55	89893.128	397.681	10.000	ug/L	1.029
|	Co	59	64200.774	38.000	10.000	ug/L	0.694
|	Ni r	60	13230.501	40.667	10.000	ug/L	1.035
|	Ni	62	2040.291	71.668	10.000	ug/L	2.677
|	Cu r	63	27890.085	186.004	10.000	ug/L	1.193
⌊	Cu	65	13167.058	90.668	10.000	ug/L	0.889
⌈	Zn r	66	8016.923	198.338	10.000	ug/L	1.394
|	Zn	67	3402.453	1662.532	10.000	ug/L	3.130
|	Zn	68	5908.661	269.674	10.000	ug/L	0.739
|>	Ge	72	85790.265	85936.557		ug/L	
|	As r	75	9665.204	-277.037	10.000	ug/L	1.710
|	As u	75	15507.105	6693.981	10.000	ug/L	2.280
|	Se r	82	1080.630	13.540	10.000	ug/L	1.977
|	Se	77	2788.261	2185.065	10.000	ug/L	10.319
⌊	Sr	88	118683.766	166.003	10.000	ug/L	0.601
⌈	Ag r	107	48044.394	29.000	10.000	ug/L	0.429
|	Ag	109	46013.671	23.334	10.000	ug/L	0.382
|	Cd r	111	11911.442	119.179	10.000	ug/L	1.382
|	Cd	106	-636.477	-1640.622	10.000	ug/L	8.859
|	Cd	108	-982.360	-1729.645	10.000	ug/L	9.670
|	Cd	114	27805.636	14.550	10.000	ug/L	0.356
|	Cd u	111	11854.580	8.667	10.000	ug/L	1.261
|>	In	115	157937.237	159650.063		ug/L	
|	Sb r	123	30231.928	52.243	10.000	ug/L	0.680
⌊	Sb	121	39791.386	50.334	10.000	ug/L	0.853

⌈	Sn	118	36098.203	91.335	10.000	ug/L	1.617
|	Sn r	120	49982.695	119.335	10.000	ug/L	1.432
|	Ba r	137	18592.294	35.334	10.000	ug/L	1.066
|	Ba	135	10728.250	20.667	10.000	ug/L	1.569
|>	Tb	159	193112.021	194934.341		ug/L	
|	Tl r	205	97901.787	198.005	10.000	ug/L	3.305
|	Tl	203	39811.254	85.668	10.000	ug/L	4.011
|	U	238	174875.264	14.667	10.000	ug/L	1.546
⌊	Pb	208	132487.739	561.680	10.000	ug/L	2.260
⌈	Na	23	4154709.401	27576.283	1.000	mg/L	0.927
|	Mg	24	2973069.493	538.024	1.000	mg/L	0.684
|	K	39	7743703.975	576067.178	1.000	mg/L	0.386
|	Ca	44	204543.580	12689.588	1.000	mg/L	0.817
|	Fe	54	457487.874	23613.417	1.000	mg/L	0.553
⌊>	Sc-1	45	294394.953	294195.845		ug/L	
	Kr	83	170.337	168.004		ug/L	
	Cl	35	28517617.967	28525288.299		mg/L	
	C	12	360843.384	338586.831		mg/L	
	Y	89	157230.544	158600.945		ug/L	
⌈	Br	79	4061.446	2020.619	10.000	ug/L	1.042
|	Br	81	17882.943	15675.447	10.000	ug/L	7.503
⌊>	Ge-1	72	85790.265	85936.557		ug/L	
	Ru	99	5.333	1.333		ug/L	
	Pd	105	1518.832	1462.487		ug/L	
	Ho	165	187080.891	189956.432		ug/L	
	Th	232	153165.416	65.334	10.000	ug/L	4.564
⌈	Mo	95	18172.957	75.001	10.000	ug/L	0.995
|	Mo	97	11291.728	49.334	10.000	ug/L	0.844
|	Mo r	98	28584.599	121.411	10.000	ug/L	1.454
|	Rh	103	23.000	10.333		ug/L	
⌊>	In-1	115	157937.237	159650.063		ug/L	
	Ti	47	185.004	169.670		ug/L	
	Li	7	20954.378	21593.147		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Standard 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Friday, February 10, 2012 08:48:09
Dataset File: C:\Elandata\Dataset\EL120210\Standard 2.004
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	14755.622	1.000	50.021	ug/L	1.570
|>	Li u	6	314471.474	339178.710		ug/L	
⌊	Li	6	312851.602	337427.506		ug/L	
⌈	Be	9	14755.622	1.000	50.027	ug/L	0.986
|	B	11	17663.448	89.668	49.980	ug/L	2.662
|	Al	27	193894.248	1545.504	50.124	ug/L	0.513
|>	Sc	45	280926.692	294195.845		ug/L	
|	V r	51	310022.238	-247.948	50.040	ug/L	1.053
|	V u	51	402702.561	89174.527	49.995	ug/L	1.111
|	Cr r	52	270468.494	9264.005	50.037	ug/L	0.539
|	Cr	53	61459.522	31133.286	49.863	ug/L	2.316
|	Mn	55	422625.880	397.681	49.978	ug/L	0.678
|	Co	59	300768.558	38.000	49.965	ug/L	0.805
|	Ni r	60	62403.733	40.667	49.983	ug/L	1.213
|	Ni	62	9022.378	71.668	49.906	ug/L	1.070
|	Cu r	63	129200.391	186.004	49.953	ug/L	1.728
⌊	Cu	65	60106.520	90.668	49.924	ug/L	0.287
⌈	Zn r	66	36679.612	198.338	49.999	ug/L	0.652
|	Zn	67	8476.754	1662.532	49.666	ug/L	2.320
|	Zn	68	26561.378	269.674	49.998	ug/L	0.291
|>	Ge	72	80116.853	85936.557		ug/L	
|	As r	75	45920.240	-277.037	49.990	ug/L	0.056
|	As u	75	48414.031	6693.981	50.044	ug/L	0.954
|	Se r	82	5359.268	13.540	50.131	ug/L	1.301
|	Se	77	5585.245	2185.065	50.390	ug/L	3.216
⌊	Sr	88	562970.795	166.003	50.032	ug/L	0.405
⌈	Ag r	107	223555.546	29.000	50.005	ug/L	0.801
|	Ag	109	216261.312	23.334	50.024	ug/L	0.615
|	Cd r	111	54828.723	119.179	49.998	ug/L	1.210
|	Cd	106	3329.008	-1640.622	50.102	ug/L	4.075
|	Cd	108	2060.969	-1729.645	50.141	ug/L	1.989
|	Cd	114	129430.189	14.550	50.005	ug/L	0.767
|	Cd u	111	54981.010	8.667	49.999	ug/L	1.072
|>	In	115	146681.117	159650.063		ug/L	
|	Sb r	123	143309.795	52.243	50.042	ug/L	1.097
⌊	Sb	121	186705.195	50.334	50.022	ug/L	0.835

⌈	Sn	118	169619.750	91.335	**50.030**	ug/L	1.475
|	Sn r	120	232559.859	119.335	**50.011**	ug/L	0.489
|	Ba r	137	85926.466	35.334	**49.998**	ug/L	1.220
|	Ba	135	50209.170	20.667	**50.022**	ug/L	1.216
|>	Tb	159	178969.272	194934.341		ug/L	
|	Tl r	205	455898.806	198.005	**50.012**	ug/L	0.922
|	Tl	203	187729.402	85.668	**50.036**	ug/L	0.377
|	U	238	817085.974	14.667	**50.016**	ug/L	0.857
⌊	Pb	208	615127.022	561.680	**50.010**	ug/L	0.825
⌈	Na	23	20485129.318	27576.283	**5.007**	mg/L	0.237
|	Mg	24	14614816.781	538.024	**5.006**	mg/L	0.546
|	K	39	35749691.371	576067.178	**5.005**	mg/L	0.417
|	Ca	44	938744.026	12689.588	**5.002**	mg/L	0.349
|	Fe	54	2423940.392	23613.417	**5.027**	mg/L	0.352
⌊>	Sc-1	45	280926.692	294195.845		ug/L	
	Kr	83	165.003	168.004		ug/L	
	Cl	35	28668994.227	28525288.299		mg/L	
	C	12	379513.847	338586.831		mg/L	
	Y	89	146347.873	158600.945		ug/L	
⌈	Br	79	11520.069	2020.619	**50.018**	ug/L	1.208
|	Br	81	24613.898	15675.447	**49.917**	ug/L	2.085
⌊>	Ge-1	72	80116.853	85936.557		ug/L	
	Ru	99	13.333	1.333		ug/L	
	Pd	105	1439.149	1462.487		ug/L	
	Ho	165	172396.342	189956.432		ug/L	
	Th	232	759443.084	65.334	**49.984**	ug/L	0.894
⌈	Mo	95	84923.729	75.001	**50.018**	ug/L	0.960
|	Mo	97	53517.400	49.334	**50.045**	ug/L	0.823
|	Mo r	98	136504.826	121.411	**50.059**	ug/L	0.557
|	Rh	103	38.334	10.333		ug/L	
⌊>	In-1	115	146681.117	159650.063		ug/L	
	Ti	47	239.006	169.670		ug/L	
	Li	7	19973.768	21593.147		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Standard 3

Sample Description:
Autosampler Position: 4
Sample Date/Time: Friday, February 10, 2012 08:53:23
Dataset File: C:\Elandata\Dataset\EL120210\Standard 3.005
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	33316.665	1.000	103.113	ug/L	0.342
|>	Li u	6	303203.625	339178.710		ug/L	
⌊	Li	6	301617.686	337427.506		ug/L	
⌈	Be	9	33316.665	1.000	103.028	ug/L	1.322
|	B	11	40925.067	89.668	103.547	ug/L	3.936
|	Al	27	436917.110	1545.504	103.108	ug/L	1.002
|>	Sc	45	272147.981	294195.845		ug/L	
|	V r	51	710729.427	-247.948	103.310	ug/L	2.105
|	V u	51	802806.132	89174.527	103.103	ug/L	1.829
|	Cr r	52	595297.352	9264.005	102.904	ug/L	1.407
|	Cr	53	98543.162	31133.286	102.455	ug/L	1.072
|	Mn	55	947613.149	397.681	102.887	ug/L	0.654
|	Co	59	665535.527	38.000	102.622	ug/L	0.584
|	Ni r	60	137204.252	40.667	102.512	ug/L	0.727
|	Ni	62	19590.445	71.668	102.316	ug/L	0.505
|	Cu r	63	282614.476	186.004	102.410	ug/L	0.252
⌊	Cu	65	131440.158	90.668	102.395	ug/L	0.419
⌈	Zn r	66	79775.681	198.338	102.275	ug/L	1.335
|	Zn	67	15895.232	1662.532	101.186	ug/L	0.856
|	Zn	68	57799.918	269.674	102.332	ug/L	0.918
|>	Ge	72	77954.804	85936.557		ug/L	
|	As r	75	102233.181	-277.037	102.605	ug/L	1.514
|	As u	75	101772.515	6693.981	103.045	ug/L	1.078
|	Se r	82	11541.559	13.540	102.107	ug/L	2.002
|	Se	77	10010.846	2185.065	103.121	ug/L	1.660
⌊	Sr	88	1251331.892	166.003	102.653	ug/L	1.085
⌈	Ag r	107	485549.108	29.000	102.907	ug/L	0.923
|	Ag	109	466778.090	23.334	102.796	ug/L	0.901
|	Cd r	111	119935.288	119.179	103.059	ug/L	1.243
|	Cd	106	9301.519	-1640.622	103.311	ug/L	0.672
|	Cd	108	6751.824	-1729.645	103.678	ug/L	0.742
|	Cd	114	283828.580	14.550	103.089	ug/L	2.036
|	Cd u	111	120554.194	8.667	103.084	ug/L	1.261
|>	In	115	137513.912	159650.063		ug/L	
|	Sb r	123	319339.264	52.243	103.403	ug/L	1.304
⌊	Sb	121	415021.311	50.334	103.350	ug/L	1.629

⌈	Sn	118	374771.271	91.335	**102.822**	ug/L	1.367
|	Sn r	120	513350.689	119.335	**102.799**	ug/L	1.632
|	Ba r	137	192603.759	35.334	**103.076**	ug/L	0.698
|	Ba	135	111474.414	20.667	**102.909**	ug/L	1.316
|>	Tb	159	171579.535	194934.341		ug/L	
|	Tl r	205	1007449.982	198.005	**115.335**	ug/L	1.806
|	Tl	203	398860.949	85.668	**110.865**	ug/L	3.976
|	U	238	1811896.967	14.667	**102.877**	ug/L	0.753
⌊	Pb	208	1332148.694	561.680	**102.436**	ug/L	0.461
⌈	Na	23	47122683.854	27576.283	**10.341**	mg/L	1.083
|	Mg	24	33506894.139	538.024	**10.332**	mg/L	1.703
|	K	39	82212685.444	576067.178	**10.355**	mg/L	1.057
|	Ca	44	2333618.846	12689.588	**10.492**	mg/L	1.127
|	Fe	54	5519356.682	23613.417	**11.879**	mg/L	0.877
⌊>	Sc-1	45	272147.981	294195.845		ug/L	
	Kr	83	168.337	168.004		ug/L	
	Cl	35	28912640.070	28525288.299		mg/L	
	C	12	416756.121	338586.831		mg/L	
	Y	89	142379.869	158600.945		ug/L	
⌈	Br	79	23459.293	2020.619	**102.829**	ug/L	2.658
|	Br	81	36710.090	15675.447	**102.829**	ug/L	0.857
⌊>	Ge-1	72	77954.804	85936.557		ug/L	
	Ru	99	28.667	1.333		ug/L	
	Pd	105	1427.814	1462.487		ug/L	
	Ho	165	166702.789	189956.432		ug/L	
	Th	232	1676623.327	65.334	**101.975**	ug/L	1.123
⌈	Mo	95	191526.987	75.001	**103.622**	ug/L	1.274
|	Mo	97	119531.794	49.334	**103.453**	ug/L	0.794
|	Mo r	98	305498.950	121.411	**103.496**	ug/L	1.595
|	Rh	103	93.668	10.333		ug/L	
⌊>	In-1	115	137513.912	159650.063		ug/L	
	Ti	47	283.675	169.670		ug/L	
	Li	7	19555.362	21593.147		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 5

Sample Description:
Autosampler Position: 5
Sample Date/Time: Friday, February 10, 2012 09:09:13
Dataset File: C:\Elandata\Dataset\EL120210\QC Std 5.008
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	34420.850	1.000	101.811	ug/L	1.329
|>	Li u	6	317305.440	339178.710		ug/L	
⌞	Li	6	305638.511	337427.506		ug/L	
⌜	Be	9	34420.850	1.000	105.074	ug/L	0.882
|	B	11	41428.367	89.668	103.461	ug/L	2.109
|	Al	27	413154.231	1545.504	96.220	ug/L	0.433
|>	Sc	45	275697.233	294195.845		ug/L	
|	V r	51	718220.298	-247.948	103.047	ug/L	0.206
|	V u	51	814629.954	89174.527	103.285	ug/L	0.336
|	Cr r	52	617612.640	9264.005	105.421	ug/L	0.761
|	Cr	53	101954.595	31133.286	105.534	ug/L	0.134
|	Mn	55	984845.761	397.681	105.551	ug/L	0.113
|	Co	59	703791.230	38.000	107.124	ug/L	0.492
|	Ni r	60	142472.512	40.667	105.077	ug/L	0.568
|	Ni	62	21085.403	71.668	108.735	ug/L	0.873
|	Cu r	63	298924.016	186.004	106.933	ug/L	0.872
⌞	Cu	65	139015.959	90.668	106.911	ug/L	0.847
⌜	Zn r	66	84982.078	198.338	112.788	ug/L	0.633
|	Zn	67	17139.584	1662.532	114.159	ug/L	1.583
|	Zn	68	61616.776	269.674	112.956	ug/L	0.917
|>	Ge	72	75311.300	85936.557		ug/L	
|	As r	75	103334.483	-277.037	107.331	ug/L	0.401
|	As u	75	102520.726	6693.981	107.719	ug/L	0.505
|	Se r	82	11840.071	13.540	108.426	ug/L	1.485
|	Se	77	10105.351	2185.065	108.888	ug/L	1.513
⌞	Sr	88	1277906.179	166.003	108.510	ug/L	0.656
⌜	Ag r	107	248908.440	29.000	52.480	ug/L	1.184
|	Ag	109	236613.750	23.334	51.839	ug/L	0.735
|	Cd r	111	124721.957	119.179	106.621	ug/L	0.991
|	Cd	106	9736.941	-1640.622	107.029	ug/L	2.913
|	Cd	108	7009.518	-1729.645	106.467	ug/L	0.629
|	Cd	114	295984.087	14.550	106.949	ug/L	0.351
|	Cd u	111	125293.128	8.667	106.582	ug/L	0.850
|>	In	115	138211.590	159650.063		ug/L	
|	Sb r	123	322928.342	52.243	104.027	ug/L	0.829
⌞	Sb	121	419511.341	50.334	103.927	ug/L	0.848

⌈	Sn	118	125.002	91.335	**0.013**	ug/L	21.095
|	Sn r	120	180.004	119.335	**0.016**	ug/L	42.366
|	Ba r	137	194352.555	35.334	**106.921**	ug/L	0.941
|	Ba	135	113416.820	20.667	**107.610**	ug/L	0.732
|>	Tb	159	166928.537	194934.341		ug/L	
|	Tl r	205	1014507.959	198.005	**119.365**	ug/L	1.771
|	Tl	203	417512.467	85.668	**119.342**	ug/L	1.697
|	U	238	41.667	14.667	**0.002**	ug/L	4.554
⌊	Pb	208	1365088.293	561.680	**107.898**	ug/L	1.322
⌈	Na	23	487537.060	27576.283	**0.100**	mg/L	0.431
|	Mg	24	304459.398	538.024	**0.093**	mg/L	0.786
|	K	39	8787911.127	576067.178	**1.032**	mg/L	0.441
|	Ca	44	38673.031	12689.588	**0.119**	mg/L	0.489
|	Fe	54	71864.810	23613.417	**0.106**	mg/L	1.060
⌊>	Sc-1	45	275697.233	294195.845		ug/L	
	Kr	83	161.337	168.004		ug/L	
	Cl	35	26586950.257	28525288.299		mg/L	
	C	12	350103.092	338586.831		mg/L	
	Y	89	140023.320	158600.945		ug/L	
⌈	Br	79	2011.616	2020.619	**1.185**	ug/L	9.155
|	Br	81	14969.702	15675.447	**5.838**	ug/L	19.043
⌊>	Ge-1	72	75311.300	85936.557		ug/L	
	Ru	99	24.334	1.333		ug/L	
	Pd	105	1452.818	1462.487		ug/L	
	Ho	165	163617.406	189956.432		ug/L	
	Th	232	2356.406	65.334	**0.139**	ug/L	30.671
⌈	Mo	95	191434.379	75.001	**103.038**	ug/L	0.760
|	Mo	97	120702.876	49.334	**103.934**	ug/L	0.995
|	Mo r	98	306532.753	121.411	**103.307**	ug/L	0.826
|	Rh	103	88.001	10.333		ug/L	
⌊>	In-1	115	138211.590	159650.063		ug/L	
	Ti	47	51264.774	169.670		ug/L	
	Li	7	143858.549	21593.147		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
QC Std 5	Zn r	66	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Zn	67	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Zn	68	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Tl r	205	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Tl	203	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	U	238	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Ca	44	SCV (LVM) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Friday, February 10, 2012 08:58:47
Dataset File: C:\Elandata\Dataset\EL120210\QC Std 2.006
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	14308.105	1.000	43.734	ug/L	0.689
|>	Li u	6	307020.831	339178.710		ug/L	
⌊	Li	6	305428.170	337427.506		ug/L	
⌈	Be	9	14308.105	1.000	43.884	ug/L	1.822
|	B	11	17810.114	89.668	44.572	ug/L	3.036
|	Al	27	188030.670	1545.504	43.817	ug/L	1.578
|>	Sc	45	274398.623	294195.845		ug/L	
|	V r	51	302242.264	-247.948	43.589	ug/L	1.237
|	V u	51	391159.697	89174.527	43.721	ug/L	1.835
|	Cr r	52	259752.024	9264.005	43.682	ug/L	2.190
|	Cr	53	59391.053	31133.286	44.227	ug/L	4.616
|	Mn	55	408539.316	397.681	43.972	ug/L	1.535
|	Co	59	287245.100	38.000	43.929	ug/L	1.388
|	Ni r	60	59591.539	40.667	44.146	ug/L	1.571
|	Ni	62	8663.630	71.668	44.688	ug/L	2.274
|	Cu r	63	123627.094	186.004	44.396	ug/L	0.329
⌊	Cu	65	57634.023	90.668	44.497	ug/L	1.515
⌈	Zn r	66	35256.633	198.338	45.415	ug/L	0.823
|	Zn	67	8364.296	1662.532	48.666	ug/L	1.017
|	Zn	68	25526.205	269.674	45.296	ug/L	0.917
|>	Ge	72	77367.943	85936.557		ug/L	
|	As r	75	43533.116	-277.037	44.165	ug/L	1.655
|	As u	75	45558.322	6693.981	42.887	ug/L	1.143
|	Se r	82	4957.239	13.540	44.130	ug/L	2.445
|	Se	77	5031.440	2185.065	39.653	ug/L	1.800
⌊	Sr	88	536719.056	166.003	44.356	ug/L	0.674
⌈	Ag r	107	212051.501	29.000	44.636	ug/L	0.544
|	Ag	109	203967.508	23.334	44.613	ug/L	0.600
|	Cd r	111	52196.067	119.179	44.497	ug/L	1.246
|	Cd	106	3079.775	-1640.622	43.119	ug/L	3.389
|	Cd	108	2002.437	-1729.645	43.760	ug/L	1.911
|	Cd	114	123624.937	14.550	44.595	ug/L	1.005
|	Cd u	111	52463.507	8.667	44.552	ug/L	1.069
|>	In	115	138436.593	159650.063		ug/L	
|	Sb r	123	135119.438	52.243	43.447	ug/L	0.845
⌊	Sb	121	177326.457	50.334	43.851	ug/L	0.816

⌈	Sn	118	160759.511	91.335	**44.009**	ug/L	0.284
|	Sn r	120	222135.238	119.335	**44.388**	ug/L	1.149
|	Ba r	137	83098.613	35.334	**44.390**	ug/L	1.254
|	Ba	135	48066.521	20.667	**44.283**	ug/L	0.962
|>	Tb	159	171883.699	194934.341		ug/L	
|	Tl r	205	434278.667	198.005	**49.610**	ug/L	0.677
|	Tl	203	177966.309	85.668	**49.388**	ug/L	1.343
|	U	238	779111.944	14.667	**44.163**	ug/L	1.071
⌊	Pb	208	577088.816	561.680	**44.275**	ug/L	0.793
⌈	Na	23	20387970.432	27576.283	**4.434**	mg/L	1.681
|	Mg	24	14535393.309	538.024	**4.445**	mg/L	1.336
|	K	39	35703734.671	576067.178	**4.422**	mg/L	1.200
|	Ca	44	912898.119	12689.588	**4.038**	mg/L	1.278
|	Fe	54	2411972.964	23613.417	**5.122**	mg/L	1.286
⌊>	Sc-1	45	274398.623	294195.845		ug/L	
	Kr	83	175.004	168.004		ug/L	
	Cl	35	28459864.878	28525288.299		mg/L	
	C	12	372967.858	338586.831		mg/L	
	Y	89	141988.224	158600.945		ug/L	
⌈	Br	79	11269.364	2020.619	**45.269**	ug/L	1.706
|	Br	81	24193.562	15675.447	**46.452**	ug/L	3.141
⌊>	Ge-1	72	77367.943	85936.557		ug/L	
	Ru	99	13.000	1.333		ug/L	
	Pd	105	1402.142	1462.487		ug/L	
	Ho	165	165121.146	189956.432		ug/L	
	Th	232	714530.964	65.334	**43.457**	ug/L	1.810
⌈	Mo	95	82265.043	75.001	**44.186**	ug/L	0.609
|	Mo	97	50828.219	49.334	**43.674**	ug/L	0.624
|	Mo r	98	130727.276	121.411	**43.965**	ug/L	1.340
|	Rh	103	37.667	10.333		ug/L	
⌊>	In-1	115	138436.593	159650.063		ug/L	
	Ti	47	231.339	169.670		ug/L	
	Li	7	19638.236	21593.147		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
QC Std 2	Be r	9	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Be	9	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Al	27	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	V r	51	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	V u	51	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Cr r	52	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Cr	53	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Mn	55	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Co	59	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Ni r	60	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Ni	62	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Cu r	63	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Cu	65	CCV (CLC) is out of limits (+/- 10%)

QC Std 2	As r	75	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	As u	75	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Se r	82	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Sr	88	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Ag r	107	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Ag	109	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Cd r	111	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Cd	106	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Cd	108	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Cd	114	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Cd u	111	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Sb r	123	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Sb	121	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Ba r	137	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Ba	135	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	U	238	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Pb	208	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Na	23	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Mg	24	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	K	39	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Ca	44	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Mo r	98	CCV (CLC) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 4

Sample Description:
Autosampler Position: 1
Sample Date/Time: Friday, February 10, 2012 09:04:00
Dataset File: C:\Elandata\Dataset\EL120210\QC Std 4.007
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	3.333	1.000	**0.007**	ug/L	49.707
|>	Li u	6	312634.894	339178.710		ug/L	
L	Li	6	311033.641	337427.506		ug/L	
⌈	Be	9	3.333	1.000	**0.008**	ug/L	48.566
|	B	11	281.008	89.668	**0.507**	ug/L	38.269
|	Al	27	1460.154	1545.504	**0.009**	ug/L	275.459
|>	Sc	45	270547.784	294195.845		ug/L	
|	V r	51	126.421	-247.948	**0.051**	ug/L	317.640
|	V u	51	87317.637	89174.527	**0.762**	ug/L	58.969
|	Cr r	52	7844.745	9264.005	**-0.119**	ug/L	20.537
|	Cr	53	30069.701	31133.286	**2.117**	ug/L	73.314
|	Mn	55	401.014	397.681	**0.004**	ug/L	51.518
|	Co	59	65.001	38.000	**0.005**	ug/L	20.582
|	Ni r	60	47.001	40.667	**0.007**	ug/L	49.985
|	Ni	62	65.334	71.668	**-0.003**	ug/L	3082.638
|	Cu r	63	194.671	186.004	**0.009**	ug/L	40.124
L	Cu	65	97.002	90.668	**0.011**	ug/L	45.335
⌈	Zn r	66	176.004	198.338	**-0.004**	ug/L	654.399
|	Zn	67	2410.402	1662.532	**6.446**	ug/L	6.671
|	Zn	68	329.010	269.674	**0.153**	ug/L	10.820
|>	Ge	72	77494.166	85936.557		ug/L	
|	As r	75	-83.626	-277.037	**0.167**	ug/L	27.758
|	As u	75	4190.851	6693.981	**-1.999**	ug/L	7.466
|	Se r	82	13.661	13.540	**0.013**	ug/L	513.345
|	Se	77	1314.279	2185.065	**-8.477**	ug/L	8.614
L	Sr	88	195.004	166.003	**0.004**	ug/L	36.214
⌈	Ag r	107	69.668	29.000	**0.009**	ug/L	60.117
|	Ag	109	60.668	23.334	**0.009**	ug/L	51.115
|	Cd r	111	115.618	119.179	**0.008**	ug/L	93.193
|	Cd	106	-1558.920	-1640.622	**-0.920**	ug/L	49.378
|	Cd	108	-1640.904	-1729.645	**-1.234**	ug/L	51.892
|	Cd	114	25.114	14.550	**0.004**	ug/L	45.008
|	Cd u	111	12.333	8.667	**0.004**	ug/L	100.681
|>	In	115	142139.260	159650.063		ug/L	
|	Sb r	123	62.704	52.243	**0.005**	ug/L	43.085
L	Sb	121	74.001	50.334	**0.007**	ug/L	50.379

⌈	Sn	118	207.005	91.335	**0.034**	ug/L	32.014
|	Sn r	120	279.675	119.335	**0.034**	ug/L	32.247
|	Ba r	137	39.000	35.334	**0.004**	ug/L	71.849
|	Ba	135	25.334	20.667	**0.006**	ug/L	52.616
|>	Tb	159	173588.216	194934.341		ug/L	
|	Tl r	205	2121.332	198.005	**0.220**	ug/L	34.478
|	Tl	203	865.727	85.668	**0.217**	ug/L	35.458
|	U	238	130.669	14.667	**0.007**	ug/L	14.235
L	Pb	208	587.015	561.680	**0.007**	ug/L	34.770
⌈	Na	23	26079.756	27576.283	**0.000**	mg/L	143.041
|	Mg	24	1713.876	538.024	**0.000**	mg/L	16.532
|	K	39	539917.816	576067.178	**0.001**	mg/L	17.230
|	Ca	44	11601.859	12689.588	**-0.000**	mg/L	185.278
|	Fe	54	22433.781	23613.417	**0.002**	mg/L	55.673
L>	Sc-1	45	270547.784	294195.845		ug/L	
	Kr	83	154.003	168.004		ug/L	
	Cl	35	27995584.188	28525288.299		mg/L	
	C	12	327158.341	338586.831		mg/L	
	Y	89	143589.200	158600.945		ug/L	
⌈	Br	79	2129.649	2020.619	**1.471**	ug/L	5.482
|	Br	81	14877.858	15675.447	**3.414**	ug/L	23.938
L>	Ge-1	72	77494.166	85936.557		ug/L	
	Ru	99	2.667	1.333		ug/L	
	Pd	105	1386.472	1462.487		ug/L	
	Ho	165	168253.048	189956.432		ug/L	
	Th	232	807.051	65.334	**0.045**	ug/L	16.683
⌈	Mo	95	169.004	75.001	**0.054**	ug/L	22.159
|	Mo	97	101.335	49.334	**0.048**	ug/L	30.310
|	Mo r	98	240.711	121.411	**0.044**	ug/L	27.291
|	Rh	103	8.000	10.333		ug/L	
L>	In-1	115	142139.260	159650.063		ug/L	
	Ti	47	158.337	169.670		ug/L	
	Li	7	19744.181	21593.147		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
QC Std 4	B	11	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	V u	51	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cr	53	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Zn	67	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	As u	75	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cd	106	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cd	108	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br	79	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br	81	IBL (LCB) is out of limits (+/- 0.400ug/L)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Blank

Sample Description:
Autosampler Position: 1
Sample Date/Time: Friday, February 10, 2012 09:15:08
Dataset File: C:\Elandata\Dataset\EL120210\Blank.009
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	4.000			ug/L	
|>	Li u	6	308562.552			ug/L	
⌊	Li	6	30696[illegible].714			ug/L	
⌈	Be	9	[illegible].000			ug/L	
|	B	11	296.342			ug/L	
|	Al	27	1220.776			ug/L	
|>	Sc	45	269483.731			ug/L	
|	V r	51	477.520			ug/L	
|	V u	51	88851.592			ug/L	
|	Cr r	52	8063.974			ug/L	
|	Cr	53	30582.040			ug/L	
|	Mn	55	38[illegible].013			ug/L	
|	Co	59	7[illegible].334			ug/L	
|	Ni r	60	5[illegible].001			ug/L	
|	Ni	62	7[illegible].334			ug/L	
|	Cu r	63	160.670			ug/L	
⌊	Cu	65	8[illegible].668			ug/L	
⌈	Zn r	66	12[illegible].669			ug/L	
|	Zn	67	238[illegible].727			ug/L	
|	Zn	68	30[illegible].343			ug/L	
|>	Ge	72	7709[illegible].654			ug/L	
|	As r	75	3[illegible].567			ug/L	
|	As u	75	458[illegible]81			ug/L	
|	Se r	82	-[illegible]67			ug/L	
|	Se	77	14[illegible].132			ug/L	
⌊	Sr	88	17[illegible].337			ug/L	
⌈	Ag r	107	5[illegible].667			ug/L	
|	Ag	109	4[illegible].334			ug/L	
|	Cd r	111	11[illegible].958			ug/L	
|	Cd	106	-153[illegible].437			ug/L	
|	Cd	108	-161[illegible].201			ug/L	
|	Cd	114	3[illegible].925			ug/L	
|	Cd u	111	1[illegible].967			ug/L	
|>	In	115	142605.433			ug/L	
|	Sb r	123	[illegible].241			ug/L	
⌊	Sb	121	8[illegible].335			ug/L	

⌈	Sn	118	100.002	ug/L
|	Sn r	120	131.002	ug/L
|	Ba r	137	41.667	ug/L
|	Ba	135	23.334	ug/L
|>	Tb	159	173060.943	ug/L
|	Tl r	205	857.057	ug/L
|	Tl	203	357.345	ug/L
|	U	238	19.000	ug/L
L	Pb	208	581.348	ug/L
⌈	Na	23	21987.611	mg/L
|	Mg	24	472.686	mg/L
|	K	39	530687.199	mg/L
|	Ca	44	11371.517	mg/L
|	Fe	54	22521.871	mg/L
L>	Sc-1	45	269483.731	ug/L
	Kr	83	176.337	ug/L
	Cl	35	28058977.227	mg/L
	C	12	314442.489	mg/L
	Y	89	143379.009	ug/L
⌈	Br	79	1957.602	ug/L
|	Br	81	15131.352	ug/L
L>	Ge-1	72	77092.854	ug/L
	Ru	99	1.000	ug/L
	Pd	105	1366.468	ug/L
	Ho	165	167015.213	ug/L
	Th	232	103.002	ug/L
⌈	Mo	95	163.003	ug/L
|	Mo	97	96.668	ug/L
|	Mo r	98	249.008	ug/L
|	Rh	103	6.333	ug/L
L>	In-1	115	142695.433	ug/L
	Ti	47	174.337	ug/L
	Li	7	19702.067	mg/L

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Blank

Sample Description:
Autosampler Position: 1
Sample Date/Time: Friday, February 10, 2012 09:15:08
Dataset File: C:\Elandata\Dataset\EL120210\Blank.009
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	4.000			ug/L	
|>	Li u	6	308562.552			ug/L	
⌊	Li	6	306964.714			ug/L	
⌈	Be	9	4.000			ug/L	
|	B	11	296.342			ug/L	
|	Al	27	1220.776			ug/L	
|>	Sc	45	269483.731			ug/L	
|	V r	51	477.520			ug/L	
|	V u	51	88851.592			ug/L	
|	Cr r	52	8063.974			ug/L	
|	Cr	53	30582.040			ug/L	
|	Mn	55	380.013			ug/L	
|	Co	59	71.334			ug/L	
|	Ni r	60	50.001			ug/L	
|	Ni	62	72.334			ug/L	
|	Cu r	63	169.670			ug/L	
⌊	Cu	65	88.668			ug/L	
⌈	Zn r	66	129.669			ug/L	
|	Zn	67	2381.727			ug/L	
|	Zn	68	308.343			ug/L	
|>	Ge	72	77092.854			ug/L	
|	As r	75	30.567			ug/L	
|	As u	75	4587.081			ug/L	
|	Se r	82	-4.867			ug/L	
|	Se	77	1429.132			ug/L	
⌊	Sr	88	177.337			ug/L	
⌈	Ag r	107	50.667			ug/L	
|	Ag	109	49.334			ug/L	
|	Cd r	111	111.058			ug/L	
|	Cd	106	-1539.437			ug/L	
|	Cd	108	-1616.201			ug/L	
|	Cd	114	36.985			ug/L	
|	Cd u	111	12.667			ug/L	
|>	In	115	142695.433			ug/L	
|	Sb r	123	64.741			ug/L	
⌊	Sb	121	84.335			ug/L	

⌈	Sn	118	100.002	ug/L
|	Sn r	120	131.002	ug/L
|	Ba r	137	41.667	ug/L
|	Ba	135	23.334	ug/L
|>	Tb	159	173060.943	ug/L
|	Tl r	205	857.057	ug/L
|	Tl	203	357.345	ug/L
|	U	238	19.000	ug/L
⌊	Pb	208	581.348	ug/L
⌈	Na	23	21987.611	mg/L
|	Mg	24	472.686	mg/L
|	K	39	530687.199	mg/L
|	Ca	44	11371.517	mg/L
|	Fe	54	22521.871	mg/L
⌊>	Sc-1	45	269483.731	ug/L
	Kr	83	176.337	ug/L
	Cl	35	28058977.227	mg/L
	C	12	314442.489	mg/L
	Y	89	143379.009	ug/L
⌈	Br	79	1957.602	ug/L
|	Br	81	15131.352	ug/L
⌊>	Ge-1	72	77092.854	ug/L
	Ru	99	1.000	ug/L
	Pd	105	1366.468	ug/L
	Ho	165	167015.213	ug/L
	Th	232	103.002	ug/L
⌈	Mo	95	163.003	ug/L
|	Mo	97	96.668	ug/L
|	Mo r	98	249.008	ug/L
|	Rh	103	6.333	ug/L
⌊>	In-1	115	142695.433	ug/L
	Ti	47	174.337	ug/L
	Li	7	19702.067	mg/L

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Standard 1

Sample Description:
Autosampler Position: 2
Sample Date/Time: Friday, February 10, 2012 09:20:20
Dataset File: C:\Elandata\Dataset\EL120210\Standard 1.010
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	2985.609	4.000	10.000	ug/L	2.072
|>	Li u	6	311842.831	308562.552		ug/L	
⌊	Li	6	310241.578	306964.714		ug/L	
⌈	Be	9	2985.609	4.000	10.000	ug/L	1.672
|	B	11	3879.017	296.342	10.000	ug/L	1.936
|	Al	27	37654.656	1220.776	10.000	ug/L	0.392
|>	Sc	45	276078.847	269483.731		ug/L	
|	V r	51	60782.346	477.520	10.000	ug/L	0.453
|	V u	51	153147.914	88851.592	10.000	ug/L	1.875
|	Cr r	52	60499.263	8063.974	10.000	ug/L	1.714
|	Cr	53	37347.530	30582.040	10.000	ug/L	7.135
|	Mn	55	86095.018	380.013	10.000	ug/L	0.970
|	Co	59	60653.794	71.334	10.000	ug/L	2.017
|	Ni r	60	12736.332	50.001	10.000	ug/L	0.769
|	Ni	62	1920.926	72.334	10.000	ug/L	0.828
|	Cu r	63	26539.302	169.670	10.000	ug/L	1.157
⌊	Cu	65	12264.559	88.668	10.000	ug/L	0.640
⌈	Zn r	66	7556.786	129.669	10.000	ug/L	1.432
|	Zn	67	3849.002	2381.727	10.000	ug/L	5.549
|	Zn	68	5744.202	308.343	10.000	ug/L	1.973
|>	Ge	72	79210.268	77092.854		ug/L	
|	As r	75	9315.237	30.567	10.000	ug/L	1.011
|	As u	75	13225.159	4587.081	10.000	ug/L	1.672
|	Se r	82	1042.945	-4.867	10.000	ug/L	3.727
|	Se	77	2165.697	1429.132	10.000	ug/L	8.768
⌊	Sr	88	112005.807	177.337	10.000	ug/L	0.753
⌈	Ag r	107	45027.856	50.667	10.000	ug/L	0.385
|	Ag	109	43696.202	49.334	10.000	ug/L	0.851
|	Cd r	111	11221.695	111.058	10.000	ug/L	1.620
|	Cd	106	-558.784	-1539.437	10.000	ug/L	3.358
|	Cd	108	-903.797	-1616.201	10.000	ug/L	8.056
|	Cd	114	26219.281	36.985	10.000	ug/L	1.864
|	Cd u	111	11151.190	12.667	10.000	ug/L	1.672
|>	In	115	144713.294	142695.433		ug/L	
|	Sb r	123	28422.819	64.741	10.000	ug/L	0.675
⌊	Sb	121	36986.411	84.335	10.000	ug/L	0.495

⌈	Sn	118	34324.763	100.002	10.000	ug/L	0.059
¦	Sn r	120	47183.739	131.002	10.000	ug/L	1.467
¦	Ba r	137	17446.608	41.667	10.000	ug/L	1.581
¦	Ba	135	10041.985	23.334	10.000	ug/L	0.262
¦>	Tb	159	177099.429	173060.943		ug/L	
¦	Tl r	205	90073.489	857.057	10.000	ug/L	1.836
¦	Tl	203	37323.809	357.345	10.000	ug/L	3.007
¦	U	238	162819.652	19.000	10.000	ug/L	0.393
⌊	Pb	208	123086.808	581.348	10.000	ug/L	0.672
⌈	Na	23	4109887.843	21987.611	1.000	mg/L	0.923
¦	Mg	24	2936675.585	472.686	1.000	mg/L	1.000
¦	K	39	7689118.359	530687.199	1.000	mg/L	1.079
¦	Ca	44	195741.970	11371.517	1.000	mg/L	1.239
¦	Fe	54	440791.018	22521.871	1.000	mg/L	0.902
⌊>	Sc-1	45	276078.847	269483.731		ug/L	
	Kr	83	171.670	176.337		ug/L	
	Cl	35	28213511.859	28058977.227		mg/L	
	C	12	347658.066	314442.489		mg/L	
	Y	89	144489.285	143379.009		ug/L	
⌈	Br	79	3933.378	1957.602	10.000	ug/L	3.530
¦	Br	81	17363.760	15131.352	10.000	ug/L	15.054
⌊>	Ge-1	72	79210.268	77092.854		ug/L	
	Ru	99	1.333	1.000		ug/L	
	Pd	105	1404.142	1366.468		ug/L	
	Ho	165	170943.203	167015.213		ug/L	
	Th	232	144180.598	103.002	10.000	ug/L	4.131
⌈	Mo	95	17277.556	163.003	10.000	ug/L	0.833
¦	Mo	97	10750.618	96.668	10.000	ug/L	2.295
¦	Mo r	98	27358.775	249.008	10.000	ug/L	1.135
¦	Rh	103	18.000	6.333		ug/L	
⌊>	In-1	115	144713.294	142695.433		ug/L	
	Ti	47	166.003	174.337		ug/L	
	Li	7	19744.174	19702.067		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Standard 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Friday, February 10, 2012 09:25:33
Dataset File: C:\Elandata\Dataset\EL120210\Standard 2.011
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	14479.761	4.000	50.024	ug/L	1.202
|>	Li u	6	299009.753	308562.552		ug/L	
⌊	Li	6	297455.712	306964.714		ug/L	
⌈	Be	9	14479.761	4.000	49.999	ug/L	1.538
|	B	11	17628.697	296.342	49.997	ug/L	2.444
|	Al	27	186306.517	1220.776	50.086	ug/L	1.164
|>	Sc	45	268207.221	269483.731		ug/L	
|	V r	51	301443.762	477.520	50.052	ug/L	0.546
|	V u	51	394454.420	88851.592	50.027	ug/L	1.177
|	Cr r	52	259239.899	8063.974	49.980	ug/L	1.068
|	Cr	53	60629.287	30582.040	50.063	ug/L	3.330
|	Mn	55	405325.353	380.013	49.946	ug/L	0.977
|	Co	59	285704.300	71.334	49.942	ug/L	1.201
|	Ni r	60	59341.955	50.001	49.925	ug/L	0.945
|	Ni	62	8717.358	72.334	49.928	ug/L	2.158
|	Cu r	63	122592.377	169.670	49.911	ug/L	1.229
⌊	Cu	65	56555.060	88.668	49.909	ug/L	1.404
⌈	Zn r	66	34609.367	129.669	49.947	ug/L	0.801
|	Zn	67	8602.560	2381.727	49.872	ug/L	0.908
|	Zn	68	25340.257	308.343	49.934	ug/L	0.239
|>	Ge	72	75592.369	77092.854		ug/L	
|	As r	75	43498.163	30.567	49.963	ug/L	0.773
|	As u	75	45672.657	4587.081	50.026	ug/L	0.896
|	Se r	82	4950.680	-4.867	49.982	ug/L	1.306
|	Se	77	4983.842	1429.132	50.136	ug/L	2.011
⌊	Sr	88	533929.927	177.337	50.001	ug/L	0.752
⌈	Ag r	107	209148.084	50.667	50.006	ug/L	0.257
|	Ag	109	201268.301	49.334	49.990	ug/L	0.648
|	Cd r	111	51266.430	111.058	49.988	ug/L	0.598
|	Cd	106	3102.289	-1539.437	49.960	ug/L	1.474
|	Cd	108	2019.337	-1616.201	50.072	ug/L	3.898
|	Cd	114	121751.238	36.985	50.006	ug/L	0.566
|	Cd u	111	51529.533	12.667	49.997	ug/L	0.702
|>	In	115	134103.260	142695.433		ug/L	
|	Sb r	123	135045.288	64.741	50.051	ug/L	0.523
⌊	Sb	121	175393.922	84.335	50.048	ug/L	0.781

⌈	Sn	118	159768.926	100.002	**49.994**	ug/L	0.433
|	Sn r	120	217318.169	131.002	**49.973**	ug/L	0.674
|	Ba r	137	81533.699	41.667	**50.001**	ug/L	0.376
|	Ba	135	47610.709	23.334	**50.028**	ug/L	0.488
|>	Tb	159	165792.104	173060.943		ug/L	
|	Tl r	205	425806.044	857.057	**50.034**	ug/L	0.485
|	Tl	203	174536.299	357.345	**50.014**	ug/L	0.429
|	U	238	760013.816	19.000	**49.995**	ug/L	1.699
⌊	Pb	208	568433.150	581.348	**49.981**	ug/L	0.777
⌈	Na	23	20388386.530	21987.611	**5.005**	mg/L	1.879
|	Mg	24	14562454.229	472.686	**5.004**	mg/L	1.434
|	K	39	35804377.277	530687.199	**5.003**	mg/L	0.874
|	Ca	44	907290.196	11371.517	**5.000**	mg/L	0.845
|	Fe	54	2441449.449	22521.871	**5.031**	mg/L	0.604
⌊>	Sc-1	45	268207.221	269483.731		ug/L	
	Kr	83	161.003	176.337		ug/L	
	Cl	35	28685011.685	28058977.227		mg/L	
	C	12	369241.682	314442.489		mg/L	
	Y	89	136953.437	143379.009		ug/L	
⌈	Br	79	10928.869	1957.602	**49.965**	ug/L	1.568
|	Br	81	24166.151	15131.352	**50.138**	ug/L	3.256
⌊>	Ge-1	72	75592.369	77092.854		ug/L	
	Ru	99	14.000	1.000		ug/L	
	Pd	105	1386.472	1366.468		ug/L	
	Ho	165	159050.556	167015.213		ug/L	
	Th	232	707312.997	103.002	**49.964**	ug/L	2.779
⌈	Mo	95	80617.057	163.003	**50.028**	ug/L	0.285
|	Mo	97	50278.617	96.668	**50.032**	ug/L	0.600
|	Mo r	98	129820.902	249.008	**50.059**	ug/L	0.609
|	Rh	103	37.667	6.333		ug/L	
⌊>	In-1	115	134103.260	142695.433		ug/L	
	Ti	47	220.672	174.337		ug/L	
	Li	7	19162.029	19702.067		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Standard 3

Sample Description:
Autosampler Position: 4
Sample Date/Time: Friday, February 10, 2012 09:30:47
Dataset File: C:\Elandata\Dataset\EL120210\Standard 3.012
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	32695.006	4.000	102.482	ug/L	0.547
|>	Li u	6	298117.021	308562.552		ug/L	
⌊	Li	6	296576.042	306964.714		ug/L	
⌈	Be	9	32695.006	4.000	102.691	ug/L	1.867
|	B	11	39955.577	296.342	102.941	ug/L	1.368
|	Al	27	425268.985	1220.776	102.997	ug/L	1.316
|>	Sc	45	264376.773	269483.731		ug/L	
|	V r	51	687258.805	477.520	102.908	ug/L	0.527
|	V u	51	782929.177	88851.592	102.829	ug/L	0.995
|	Cr r	52	577634.038	8063.974	102.764	ug/L	0.740
|	Cr	53	97629.764	30582.040	102.559	ug/L	3.220
|	Mn	55	910197.006	380.013	102.573	ug/L	1.176
|	Co	59	637405.934	71.334	102.439	ug/L	0.582
|	Ni r	60	132191.931	50.001	102.410	ug/L	0.725
|	Ni	62	19142.984	72.334	102.213	ug/L	0.924
|	Cu r	63	269255.437	169.670	102.138	ug/L	0.219
⌊	Cu	65	125299.544	88.668	102.307	ug/L	0.390
⌈	Zn r	66	76513.090	129.669	102.485	ug/L	0.912
|	Zn	67	15713.524	2381.727	101.817	ug/L	1.250
|	Zn	68	55355.010	308.343	102.338	ug/L	0.508
|>	Ge	72	73815.549	77092.854		ug/L	
|	As r	75	97394.245	30.567	102.702	ug/L	0.947
|	As u	75	96660.163	4587.081	102.734	ug/L	1.096
|	Se r	82	11003.489	-4.867	102.551	ug/L	1.432
|	Se	77	9451.850	1429.132	102.905	ug/L	1.597
⌊	Sr	88	1195599.285	177.337	102.714	ug/L	0.853
⌈	Ag r	107	461680.221	50.667	102.445	ug/L	0.653
|	Ag	109	447314.451	49.334	102.569	ug/L	0.183
|	Cd r	111	114397.350	111.058	102.664	ug/L	1.066
|	Cd	106	8897.022	-1539.437	102.925	ug/L	1.170
|	Cd	108	6294.050	-1616.201	102.385	ug/L	2.485
|	Cd	114	270978.219	36.985	102.603	ug/L	0.369
|	Cd u	111	114830.950	12.667	102.622	ug/L	1.168
|>	In	115	130925.925	142695.433		ug/L	
|	Sb r	123	303023.260	64.741	102.777	ug/L	0.618
⌊	Sb	121	394525.550	84.335	102.821	ug/L	0.362

⌈	Sn	118	355953.899	100.002	**102.772**	ug/L	0.340
|	Sn r	120	488532.003	131.002	**102.933**	ug/L	0.846
|	Ba r	137	182845.953	41.667	**102.898**	ug/L	1.266
|	Ba	135	105576.075	23.334	**102.694**	ug/L	0.898
|>	Tb	159	160580.123	173060.943		ug/L	
|	Tl r	205	947105.610	857.057	**115.026**	ug/L	0.585
|	Tl	203	391767.754	357.345	**116.041**	ug/L	0.558
|	U	238	1712780.441	19.000	**102.982**	ug/L	1.142
⌊	Pb	208	1259869.020	581.348	**102.673**	ug/L	1.210
⌈	Na	23	46821220.843	21987.611	**10.304**	mg/L	1.169
|	Mg	24	33333096.894	472.686	**10.296**	mg/L	1.398
|	K	39	81783670.662	530687.199	**10.308**	mg/L	1.094
|	Ca	44	2316979.616	11371.517	**10.507**	mg/L	0.873
|	Fe	54	5544059.940	22521.871	**11.651**	mg/L	1.173
⌊>	Sc-1	45	264376.773	269483.731		ug/L	
	Kr	83	159.003	176.337		ug/L	
	Cl	35	28898201.798	28058977.227		mg/L	
	C	12	409067.101	314442.489		mg/L	
	Y	89	134856.521	143379.009		ug/L	
⌈	Br	79	22584.667	1957.602	**103.192**	ug/L	1.530
|	Br	81	35672.549	15131.352	**103.028**	ug/L	1.896
⌊>	Ge-1	72	73815.549	77092.854		ug/L	
	Ru	99	22.667	1.000		ug/L	
	Pd	105	1418.478	1366.468		ug/L	
	Ho	165	158315.478	167015.213		ug/L	
	Th	232	1584055.485	103.002	**102.245**	ug/L	0.416
⌈	Mo	95	184288.245	163.003	**103.133**	ug/L	0.410
|	Mo	97	115235.901	96.668	**103.182**	ug/L	0.753
|	Mo r	98	293682.592	249.008	**102.947**	ug/L	0.300
|	Rh	103	82.668	6.333		ug/L	
⌊>	In-1	115	130925.925	142695.433		ug/L	
	Ti	47	292.008	174.337		ug/L	
	Li	7	19000.964	19702.067		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Friday, February 10, 2012 09:36:11
Dataset File: C:\Elandata\Dataset\EL120210\QC Std 2.013
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	13897.687	4.000	43.416	ug/L	1.536
|>	Li u	6	299063.830	308562.552		ug/L	
⌞	Li	6	297518.488	306964.714		ug/L	
⌜	Be	9	13897.687	4.000	43.790	ug/L	1.106
|	B	11	17604.644	296.342	45.087	ug/L	1.898
|	Al	27	184333.677	1220.776	44.639	ug/L	0.909
|>	Sc	45	263456.165	269483.731		ug/L	
|	V r	51	295453.135	477.520	44.356	ug/L	1.194
|	V u	51	385665.471	88851.592	44.316	ug/L	1.394
|	Cr r	52	253049.453	8063.974	44.376	ug/L	1.097
|	Cr	53	59306.477	30582.040	44.742	ug/L	4.218
|	Mn	55	395516.293	380.013	44.708	ug/L	1.340
|	Co	59	279780.293	71.334	45.122	ug/L	1.765
|	Ni r	60	57842.241	50.001	44.950	ug/L	0.737
|	Ni	62	8360.293	72.334	44.584	ug/L	2.524
|	Cu r	63	118965.081	169.670	45.255	ug/L	1.298
⌞	Cu	65	55085.752	88.668	45.100	ug/L	1.150
⌜	Zn r	66	33493.431	129.669	44.884	ug/L	1.091
|	Zn	67	8349.614	2381.727	46.159	ug/L	1.750
|	Zn	68	24535.315	308.343	45.171	ug/L	1.085
|>	Ge	72	73628.105	77092.854		ug/L	
|	As r	75	42176.640	30.567	44.569	ug/L	0.962
|	As u	75	44109.227	4587.081	44.345	ug/L	0.828
|	Se r	82	4814.571	-4.867	45.010	ug/L	1.068
|	Se	77	4807.707	1429.132	43.940	ug/L	0.693
⌞	Sr	88	517964.071	177.337	44.605	ug/L	1.250
⌜	Ag r	107	205149.110	50.667	45.387	ug/L	0.235
|	Ag	109	195347.841	49.334	44.659	ug/L	0.194
|	Cd r	111	49889.982	111.058	44.594	ug/L	0.692
|	Cd	106	3012.637	-1539.437	44.094	ug/L	1.077
|	Cd	108	1818.083	-1616.201	43.385	ug/L	1.378
|	Cd	114	118673.745	36.985	44.800	ug/L	0.486
|	Cd u	111	50006.529	12.667	44.556	ug/L	0.611
|>	In	115	131300.598	142695.433		ug/L	
|	Sb r	123	129767.876	64.741	43.877	ug/L	0.441
⌞	Sb	121	169803.104	84.335	44.118	ug/L	0.740

⌈	Sn	118	155356.720	100.002	**45.029**	ug/L	1.143
|	Sn r	120	212471.655	131.002	**44.938**	ug/L	0.240
|	Ba r	137	78345.116	41.667	**44.257**	ug/L	0.395
|	Ba	135	45633.755	23.334	**44.563**	ug/L	1.085
|>	Tb	159	159923.433	173060.943		ug/L	
|	Tl r	205	408389.271	857.057	**49.748**	ug/L	1.090
|	Tl	203	168427.991	357.345	**50.035**	ug/L	0.720
|	U	238	731839.282	19.000	**44.182**	ug/L	0.247
⌊	Pb	208	548840.031	581.348	**44.883**	ug/L	0.703
⌈	Na	23	20295398.376	21987.611	**4.479**	mg/L	1.065
|	Mg	24	14489118.916	472.686	**4.491**	mg/L	0.935
|	K	39	35672668.968	530687.199	**4.475**	mg/L	0.967
|	Ca	44	887545.608	11371.517	**4.008**	mg/L	1.093
|	Fe	54	1954775.812	22521.871	**4.092**	mg/L	0.732
⌊>	Sc-1	45	263456.165	269483.731		ug/L	
	Kr	83	163.337	176.337		ug/L	
	Cl	35	28585974.162	28058977.227		mg/L	
	C	12	369206.622	314442.489		mg/L	
	Y	89	134620.085	143379.009		ug/L	
⌈	Br	79	10956.574	1957.602	**45.391**	ug/L	1.402
|	Br	81	23446.247	15131.352	**43.857**	ug/L	1.897
⌊>	Ge-1	72	73628.105	77092.854		ug/L	
	Ru	99	9.667	1.000		ug/L	
	Pd	105	1389.139	1366.468		ug/L	
	Ho	165	155339.448	167015.213		ug/L	
	Th	232	675739.368	103.002	**43.613**	ug/L	2.254
⌈	Mo	95	79577.343	163.003	**44.362**	ug/L	1.542
|	Mo	97	49432.827	96.668	**44.092**	ug/L	0.811
|	Mo r	98	126458.004	249.008	**44.157**	ug/L	0.548
|	Rh	103	42.667	6.333		ug/L	
⌊>	In-1	115	131300.598	142695.433		ug/L	
	Ti	47	200.005	174.337		ug/L	
	Li	7	19054.770	19702.067		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
QC Std 2	Be r	9	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Be	9	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Al	27	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	V r	51	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	V u	51	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Cr r	52	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Cr	53	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Mn	55	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Ni r	60	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Ni	62	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Zn r	66	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	As r	75	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	As u	75	CCV (CLC) is out of limits (+/- 10%)

QC Std 2	Sr 88	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Ag 109	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Cd r 111	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Cd 106	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Cd 108	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Cd 114	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Cd u 111	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Sb r 123	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Sb 121	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Ba r 137	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Ba 135	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	U 238	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Pb 208	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Na 23	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Mg 24	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	K 39	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Ca 44	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Fe 54	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Br 81	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Mo r 98	CCV (CLC) is out of limits (+/- 10%)

ELAN 6100 Daily Performance Report

Sample ID: Sample
Sample Date/Time: Friday, February 10, 2012 09:50:55
Sample Description:
Method File: C:\Elandata\Method\EPA\epa Daily.mth
Dataset File: C:\Elandata\Dataset\Daily Performance\Sample.125
Tuning File: C:\Elandata\Tuning\epa.tun
Optimization File: C:\Elandata\Optimize\epa.dac
Dual Detector Mode: Dual
Acq. Dead Time(ns): 65
Current Dead Time (ns): 65

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Be	9.0	2718.3	2718.348	115.404	4.2
	Co	58.9	77946.3	77946.347	1315.275	1.7
	Mg	24.0	36926.7	36926.701	515.867	1.4
	Rh	102.9	144926.7	144926.686	2501.664	1.7
	In	114.9	175685.9	175685.938	2558.308	1.5
	Pb	208.0	78559.7	78559.716	1127.576	1.4
⌈>	Ba	137.9	144396.6	144396.602	2118.499	1.5
⌊	Ba++	69.0	2820.7	0.020	0.000	2.3
⌈>	Ce	139.9	186350.3	186350.300	2138.364	1.1
⌊	CeO	155.9	5278.1	0.028	0.000	0.8
	Bkgd	220.0	1.3	1.267	0.596	47.1
	C	12.0	333510.7	333510.735	3592.746	1.1
	C	13.0	5239.1	5239.117	51.461	1.0
	U	238.1	214549.8	214549.771	2595.066	1.2
	Kr	83.9	1298.8	1298.828	17.057	1.3
	Kr	82.9	262.6	262.590	18.454	7.0

Current Optimization File Data

Current Value	Description
0.89	Nebulizer Gas Flow
7.00	Lens Voltage
1100.00	ICP RF Power
-2250.00	Analog Stage Voltage
1900.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	29	7.3	3487.8
Co	59	29	8.0	71251.5
In	115	29	8.8	157632.7

DIM0216291 DIM0216801

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Blank

Sample Description:
Autosampler Position: 1
Sample Date/Time: Friday, February 10, 2012 09:56:49
Dataset File: C:\Elandata\DataSet\EL120210\Blank.014
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	2.667			ug/L	
|>	Li u	6	291368.212			ug/L	
⌊	Li	6	289860.701			ug/L	
⌈	Be	9	2.667			ug/L	
|	B	11	166.337			ug/L	
|	Al	27	1170.101			ug/L	
|>	Sc	45	288424.420			ug/L	
|	V r	51	-914.216			ug/L	
|	V u	51	82527.835			ug/L	
|	Cr r	52	8490.770			ug/L	
|	Cr	53	29093.771			ug/L	
|	Mn	55	541.691			ug/L	
|	Co	59	56.667			ug/L	
|	Ni r	60	62.668			ug/L	
|	Ni	62	79.335			ug/L	
|	Cu r	63	187.338			ug/L	
⌊	Cu	65	104.668			ug/L	
⌈	Zn r	66	221.005			ug/L	
|	Zn	67	1722.879			ug/L	
|	Zn	68	293.009			ug/L	
|>	Ge	72	81751.619			ug/L	
|	As r	75	-6.938			ug/L	
|	As u	75	4749.848			ug/L	
|	Se r	82	-6.841			ug/L	
|	Se	77	1496.171			ug/L	
⌊	Sr	88	140.003			ug/L	
⌈	Ag r	107	40.667			ug/L	
|	Ag	109	41.001			ug/L	
|	Cd r	111	138.023			ug/L	
|	Cd	106	-1698.819			ug/L	
|	Cd	108	-1805.708			ug/L	
|	Cd	114	18.484			ug/L	
|	Cd u	111	11.667			ug/L	
|>	In	115	154619.939			ug/L	
|	Sb r	123	41.122			ug/L	
⌊	Sb	121	48.334			ug/L	

⌈	Sn	118	168.337	ug/L
|	Sn r	120	228.006	ug/L
|	Ba r	137	38.334	ug/L
|	Ba	135	18.334	ug/L
|>	Tb	159	181319.786	ug/L
|	Tl r	205	605.030	ug/L
|	Tl	203	251.340	ug/L
|	U	238	58.334	ug/L
⌊	Pb	208	1051.372	ug/L
⌈	Na	23	21235.155	mg/L
|	Mg	24	585.362	mg/L
|	K	39	523798.486	mg/L
|	Ca	44	22549.288	mg/L
|	Fe	54	25597.925	mg/L
⌊>	Sc-1	45	288424.420	ug/L
	Kr	83	173.337	ug/L
	Cl	35	30039050.899	mg/L
	C	12	302795.885	mg/L
	Y	89	154072.595	ug/L
⌈	Br	79	2021.619	ug/L
|	Br	81	14369.888	ug/L
⌊>	Ge-1	72	81751.619	ug/L
	Ru	99	1.333	ug/L
	Pd	105	1525.834	ug/L
	Ho	165	176668.743	ug/L
	Th	232	211.005	ug/L
⌈	Mo	95	94.668	ug/L
|	Mo	97	57.334	ug/L
|	Mo r	98	142.338	ug/L
|	Rh	103	20.000	ug/L
⌊>	In-1	115	154619.939	ug/L
	Ti	47	293.675	ug/L
	Li	7	18588.290	mg/L

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Standard 1

Sample Description:
Autosampler Position: 2
Sample Date/Time: Friday, February 10, 2012 10:02:01
Dataset File: C:\Elandata\DataSet\EL120210\Standard 1.015
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	3431.133	2.667	10.000	ug/L	1.000
|>	Li u	6	290521.527	291368.212		ug/L	
⌊	Li	6	288998.272	289860.701		ug/L	
⌈	Be	9	3431.133	2.667	10.000	ug/L	2.038
|	B	11	4035.766	166.337	10.000	ug/L	2.256
|	Al	27	46782.038	1170.101	10.000	ug/L	2.013
|>	Sc	45	289843.258	288424.420		ug/L	
|	V r	51	75569.941	-914.216	10.000	ug/L	0.724
|	V u	51	165462.382	82527.835	10.000	ug/L	2.992
|	Cr r	52	72632.046	8490.770	10.000	ug/L	1.622
|	Cr	53	38205.761	29093.771	10.000	ug/L	9.324
|	Mn	55	107443.506	541.691	10.000	ug/L	1.413
|	Co	59	76449.155	56.667	10.000	ug/L	0.392
|	Ni r	60	15960.033	62.668	10.000	ug/L	0.936
|	Ni	62	2378.725	79.335	10.000	ug/L	3.997
|	Cu r	63	32788.414	187.338	10.000	ug/L	1.337
⌊	Cu	65	15370.495	104.668	10.000	ug/L	1.435
⌈	Zn r	66	9356.781	221.005	10.000	ug/L	1.532
|	Zn	67	3816.652	1722.879	10.000	ug/L	7.762
|	Zn	68	6974.897	293.009	10.000	ug/L	1.724
|>	Ge	72	83014.080	81751.619		ug/L	
|	As r	75	11412.495	-6.938	10.000	ug/L	4.611
|	As u	75	15403.899	4749.848	10.000	ug/L	3.134
|	Se r	82	1260.806	-6.841	10.000	ug/L	7.432
|	Se	77	2394.948	1496.171	10.000	ug/L	7.953
⌊	Sr	88	143354.609	140.003	10.000	ug/L	0.793
⌈	Ag r	107	58489.834	40.667	10.000	ug/L	2.599
|	Ag	109	55344.661	41.001	10.000	ug/L	1.793
|	Cd r	111	14072.102	138.023	10.000	ug/L	0.970
|	Cd	106	-465.035	-1698.819	10.000	ug/L	4.135
|	Cd	108	-867.660	-1805.708	10.000	ug/L	11.090
|	Cd	114	32958.727	18.484	10.000	ug/L	0.943
|	Cd u	111	14021.242	11.667	10.000	ug/L	1.004
|>	In	115	156709.715	154619.939		ug/L	
|	Sb r	123	34093.607	41.122	10.000	ug/L	0.827
⌊	Sb	121	45130.793	48.334	10.000	ug/L	0.265

⌈	Sn	118	42259.857	168.337	10.000	ug/L	0.832
|	Sn r	120	56551.691	228.006	10.000	ug/L	2.453
|	Ba r	137	20823.689	38.334	10.000	ug/L	0.986
|	Ba	135	12095.292	18.334	10.000	ug/L	3.493
|>	Tb	159	181883.281	181319.786		ug/L	
|	Tl r	205	109901.961	605.030	10.000	ug/L	2.869
|	Tl	203	45603.946	251.340	10.000	ug/L	2.186
|	U	238	205680.774	58.334	10.000	ug/L	3.211
⌊	Pb	208	149443.231	1051.372	10.000	ug/L	1.720
⌈	Na	23	5297925.688	21235.155	1.000	mg/L	0.286
|	Mg	24	3725522.943	585.362	1.000	mg/L	0.705
|	K	39	9503918.601	523798.486	1.000	mg/L	1.419
|	Ca	44	245467.263	22549.288	1.000	mg/L	1.568
|	Fe	54	536629.519	25597.925	1.000	mg/L	0.683
⌊>	Sc-1	45	289843.258	288424.420		ug/L	
	Kr	83	192.671	173.337		ug/L	
	Cl	35	30091840.832	30039050.899		mg/L	
	C	12	314449.822	302795.885		mg/L	
	Y	89	154973.588	154072.595		ug/L	
⌈	Br	79	4501.362	2021.619	10.000	ug/L	5.879
|	Br	81	17120.873	14369.888	10.000	ug/L	16.752
⌊>	Ge-1	72	83014.080	81751.619		ug/L	
	Ru	99	7.333	1.333		ug/L	
	Pd	105	1560.174	1525.834		ug/L	
	Ho	165	174567.016	176668.743		ug/L	
	Th	232	184133.091	211.005	10.000	ug/L	4.740
⌈	Mo	95	21843.863	94.668	10.000	ug/L	1.162
|	Mo	97	13762.772	57.334	10.000	ug/L	0.171
|	Mo r	98	35497.781	142.338	10.000	ug/L	0.919
|	Rh	103	18.667	20.000		ug/L	
⌊>	In-1	115	156709.715	154619.939		ug/L	
	Ti	47	429.018	293.675		ug/L	
	Li	7	18782.429	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Standard 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Friday, February 10, 2012 10:07:14
Dataset File: C:\Elandata\DataSet\EL120210\Standard 2.016
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	16652.506	2.667	49.993	ug/L	1.204
|>	Li u	6	283206.974	291368.212		ug/L	
L	Li	6	281738.160	289860.701		ug/L	
⌈	Be	9	16652.506	2.667	49.995	ug/L	2.008
|	B	11	19889.546	166.337	50.087	ug/L	0.986
|	Al	27	230162.140	1170.101	50.059	ug/L	2.273
|>	Sc	45	282209.736	288424.420		ug/L	
|	V r	51	375924.492	-914.216	50.023	ug/L	0.919
|	V u	51	469546.887	82527.835	49.936	ug/L	0.705
|	Cr r	52	320550.921	8490.770	50.001	ug/L	1.132
|	Cr	53	68057.449	29093.771	49.805	ug/L	2.823
|	Mn	55	503060.104	541.691	49.932	ug/L	0.874
|	Co	59	358121.861	56.667	49.926	ug/L	1.186
|	Ni r	60	73799.063	62.668	49.905	ug/L	1.811
|	Ni	62	10846.083	79.335	49.925	ug/L	2.068
|	Cu r	63	152590.904	187.338	49.921	ug/L	2.156
L	Cu	65	70753.963	104.668	49.900	ug/L	1.199
⌈	Zn r	66	42829.665	221.005	49.943	ug/L	1.109
|	Zn	67	9882.778	1722.879	49.596	ug/L	1.053
|	Zn	68	31676.081	293.009	49.957	ug/L	0.628
|>	Ge	72	79763.915	81751.619		ug/L	
|	As r	75	54828.591	-6.938	49.999	ug/L	1.886
|	As u	75	56208.511	4749.848	50.028	ug/L	1.660
|	Se r	82	6236.831	-6.841	50.046	ug/L	2.123
|	Se	77	5810.305	1496.171	50.063	ug/L	2.659
L	Sr	88	684705.186	140.003	49.990	ug/L	0.341
⌈	Ag r	107	268694.209	40.667	49.973	ug/L	0.923
|	Ag	109	260141.943	41.001	50.018	ug/L	1.614
|	Cd r	111	65024.121	138.023	49.999	ug/L	1.618
|	Cd	106	4358.541	-1698.819	50.035	ug/L	2.410
|	Cd	108	2726.597	-1805.708	49.978	ug/L	1.249
|	Cd	114	153299.666	18.484	49.997	ug/L	1.524
|	Cd u	111	65131.567	11.667	49.995	ug/L	1.442
|>	In	115	146067.034	154619.939		ug/L	
|	Sb r	123	161075.344	41.122	50.028	ug/L	1.477
L	Sb	121	212954.178	48.334	50.026	ug/L	2.450

⌈	Sn	118	196919.745	168.337	**49.992**	ug/L	0.577
|	Sn r	120	265955.808	228.006	**50.009**	ug/L	0.823
|	Ba r	137	98618.451	38.334	**50.020**	ug/L	1.194
|	Ba	135	56522.830	18.334	**49.993**	ug/L	0.605
|>	Tb	159	170762.080	181319.786		ug/L	
|	Tl r	205	512850.009	605.030	**49.997**	ug/L	1.432
|	Tl	203	214402.361	251.340	**50.011**	ug/L	1.347
|	U	238	974865.124	58.334	**50.018**	ug/L	0.485
⌊	Pb	208	686489.311	1051.372	**49.969**	ug/L	0.768
⌈	Na	23	25919161.316	21235.155	**5.002**	mg/L	0.142
|	Mg	24	18277425.092	585.362	**5.002**	mg/L	2.126
|	K	39	45057848.711	523798.486	**5.004**	mg/L	1.539
|	Ca	44	1135905.313	22549.288	**5.005**	mg/L	0.400
|	Fe	54	3077817.093	25597.925	**5.036**	mg/L	2.515
⌊>	Sc-1	45	282209.736	288424.420		ug/L	
	Kr	83	181.004	173.337		ug/L	
	Cl	35	30336840.263	30039050.899		mg/L	
	C	12	342580.487	302795.885		mg/L	
	Y	89	148911.236	154072.595		ug/L	
⌈	Br	79	13287.600	2021.619	**49.923**	ug/L	1.651
|	Br	81	26106.841	14369.888	**49.988**	ug/L	5.406
⌊>	Ge-1	72	79763.915	81751.619		ug/L	
	Ru	99	17.000	1.333		ug/L	
	Pd	105	1520.832	1525.834		ug/L	
	Ho	165	164462.099	176668.743		ug/L	
	Th	232	896051.986	211.005	**49.949**	ug/L	3.410
⌈	Mo	95	106967.388	94.668	**50.100**	ug/L	0.407
|	Mo	97	66781.708	57.334	**50.082**	ug/L	1.163
|	Mo r	98	170553.021	142.338	**50.064**	ug/L	0.726
|	Rh	103	56.001	20.000		ug/L	
⌊>	In-1	115	146067.034	154619.939		ug/L	
	Ti	47	356.679	293.675		ug/L	
	Li	7	18111.147	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Standard 3

Sample Description:
Autosampler Position: 4
Sample Date/Time: Friday, February 10, 2012 10:12:28
Dataset File: C:\Elandata\DataSet\EL120210\Standard 3.017
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	32235.395	2.667	**100.218**	ug/L	0.770
|>	Li u	6	271214.686	291368.212		ug/L	
⌊	Li	6	269783.807	289860.701		ug/L	
⌈	Be	9	32235.395	2.667	**99.957**	ug/L	0.458
|	B	11	37578.331	166.337	**99.575**	ug/L	3.278
|	Al	27	448542.129	1170.101	**100.171**	ug/L	1.541
|>	Sc	45	273682.497	288424.420		ug/L	
|	V r	51	726300.548	-914.216	**99.907**	ug/L	1.313
|	V u	51	826795.540	82527.835	**99.820**	ug/L	1.737
|	Cr r	52	610181.722	8490.770	**99.881**	ug/L	0.921
|	Cr	53	102342.750	29093.771	**99.355**	ug/L	2.701
|	Mn	55	994958.647	541.691	**100.385**	ug/L	1.411
|	Co	59	706279.751	56.667	**100.311**	ug/L	0.502
|	Ni r	60	144411.735	62.668	**100.151**	ug/L	0.951
|	Ni	62	20795.616	79.335	**99.802**	ug/L	1.324
|	Cu r	63	294929.816	187.338	**99.907**	ug/L	1.984
⌊	Cu	65	134708.190	104.668	**99.586**	ug/L	0.522
⌈	Zn r	66	81573.392	221.005	**99.330**	ug/L	0.927
|	Zn	67	16823.549	1722.879	**98.506**	ug/L	0.847
|	Zn	68	59830.394	293.009	**99.204**	ug/L	1.124
|>	Ge	72	78541.416	81751.619		ug/L	
|	As r	75	105880.621	-6.938	**99.590**	ug/L	1.102
|	As u	75	105672.940	4749.848	**99.917**	ug/L	1.000
|	Se r	82	11828.906	-6.841	**99.223**	ug/L	1.439
|	Se	77	10140.263	1496.171	**100.345**	ug/L	0.547
⌊	Sr	88	1310334.024	140.003	**99.406**	ug/L	3.319
⌈	Ag r	107	520948.173	40.667	**100.378**	ug/L	0.320
|	Ag	109	492527.019	41.001	**99.908**	ug/L	0.180
|	Cd r	111	125151.975	138.023	**100.259**	ug/L	0.770
|	Cd	106	9888.460	-1698.819	**100.139**	ug/L	1.432
|	Cd	108	6996.271	-1805.708	**100.439**	ug/L	1.304
|	Cd	114	294617.431	18.484	**100.208**	ug/L	0.737
|	Cd u	111	125611.907	11.667	**100.280**	ug/L	0.724
|>	In	115	138939.590	154619.939		ug/L	
|	Sb r	123	312590.310	41.122	**100.422**	ug/L	0.928
⌊	Sb	121	413671.782	48.334	**100.439**	ug/L	1.022

⌈	Sn	118	376868.955	168.337	**99.696**	ug/L	1.350
|	Sn r	120	517337.701	228.006	**100.040**	ug/L	0.615
|	Ba r	137	189061.452	38.334	**99.738**	ug/L	0.868
|	Ba	135	108964.081	18.334	**99.845**	ug/L	1.184
|>	Tb	159	165850.924	181319.786		ug/L	
|	Tl r	205	974054.098	605.030	**97.824**	ug/L	1.347
|	Tl	203	408731.750	251.340	**98.212**	ug/L	0.279
|	U	238	1831219.407	58.334	**99.310**	ug/L	0.984
⌊	Pb	208	1302413.817	1051.372	**99.512**	ug/L	0.858
⌈	Na	23	50408609.861	21235.155	**10.008**	mg/L	2.709
|	Mg	24	35612784.145	585.362	**10.010**	mg/L	2.383
|	K	39	87988595.406	523798.486	**10.027**	mg/L	1.312
|	Ca	44	2505020.895	22549.288	**10.278**	mg/L	0.974
|	Fe	54	6031273.413	25597.925	**10.218**	mg/L	1.582
⌊>	Sc-1	45	273682.497	288424.420		ug/L	
	Kr	83	182.004	173.337		ug/L	
	Cl	35	30442420.129	30039050.899		mg/L	
	C	12	377984.441	302795.885		mg/L	
	Y	89	143502.950	154072.595		ug/L	
⌈	Br	79	24224.996	2021.619	**99.969**	ug/L	2.131
|	Br	81	36661.192	14369.888	**99.151**	ug/L	3.247
⌊>	Ge-1	72	78541.416	81751.619		ug/L	
	Ru	99	30.667	1.333		ug/L	
	Pd	105	1508.496	1525.834		ug/L	
	Ho	165	160563.040	176668.743		ug/L	
	Th	232	1708172.090	211.005	**98.977**	ug/L	0.288
⌈	Mo	95	204944.505	94.668	**100.197**	ug/L	0.833
|	Mo	97	129365.703	57.334	**100.417**	ug/L	1.383
|	Mo r	98	330811.107	142.338	**100.433**	ug/L	1.292
|	Rh	103	101.002	20.000		ug/L	
⌊>	In-1	115	138939.590	154619.939		ug/L	
	Ti	47	365.679	293.675		ug/L	
	Li	7	17643.390	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Friday, February 10, 2012 10:17:52
Dataset File: C:\Elandata\DataSet\EL120210\QC Std 2.018
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	16234.609	2.667	49.108	ug/L	1.174
|>	Li u	6	278719.910	291368.212		ug/L	
⌊	Li	6	277276.188	289860.701		ug/L	
⌈	Be	9	16234.609	2.667	49.594	ug/L	1.049
|	B	11	19266.627	166.337	50.088	ug/L	1.486
|	Al	27	222728.454	1170.101	48.878	ug/L	0.238
|>	Sc	45	277779.734	288424.420		ug/L	
|	V r	51	364950.569	-914.216	49.520	ug/L	1.129
|	V u	51	458862.651	82527.835	49.845	ug/L	1.708
|	Cr r	52	313351.424	8490.770	49.872	ug/L	0.348
|	Cr	53	66997.559	29093.771	51.042	ug/L	2.610
|	Mn	55	491203.772	541.691	48.798	ug/L	1.276
|	Co	59	347481.833	56.667	48.625	ug/L	1.452
|	Ni r	60	71706.094	62.668	48.968	ug/L	0.963
|	Ni	62	10367.753	79.335	48.837	ug/L	1.150
|	Cu r	63	147052.759	187.338	49.044	ug/L	0.399
⌊	Cu	65	68173.139	104.668	49.621	ug/L	1.396
⌈	Zn r	66	40926.329	221.005	50.718	ug/L	1.401
|	Zn	67	9803.676	1722.879	54.211	ug/L	2.271
|	Zn	68	30194.788	293.009	50.849	ug/L	0.645
|>	Ge	72	76984.794	81751.619		ug/L	
|	As r	75	52440.286	-6.938	50.323	ug/L	0.460
|	As u	75	54296.844	4749.848	50.229	ug/L	0.350
|	Se r	82	5848.897	-6.841	50.079	ug/L	1.098
|	Se	77	5642.220	1496.171	49.791	ug/L	1.437
⌊	Sr	88	654602.654	140.003	50.650	ug/L	0.858
⌈	Ag r	107	258552.310	40.667	50.049	ug/L	3.036
|	Ag	109	248359.483	41.001	50.609	ug/L	2.114
|	Cd r	111	63055.828	138.023	50.691	ug/L	1.203
|	Cd	106	4161.305	-1698.819	50.073	ug/L	2.904
|	Cd	108	2648.157	-1805.708	49.915	ug/L	1.171
|	Cd	114	144396.231	18.484	49.331	ug/L	1.359
|	Cd u	111	63218.351	11.667	50.690	ug/L	1.106
|>	In	115	138332.229	154619.939		ug/L	
|	Sb r	123	154471.359	41.122	49.850	ug/L	2.587
⌊	Sb	121	203704.850	48.334	49.680	ug/L	2.190

⌈	Sn	118	188924.073	168.337	**50.520**	ug/L	0.765
|	Sn r	120	256573.038	228.006	**50.148**	ug/L	0.897
|	Ba r	137	95322.972	38.334	**50.837**	ug/L	0.618
|	Ba	135	54619.105	18.334	**50.598**	ug/L	1.181
|>	Tb	159	164022.642	181319.786		ug/L	
|	Tl r	205	488003.124	605.030	**49.526**	ug/L	1.685
|	Tl	203	203683.208	251.340	**49.463**	ug/L	1.273
|	U	238	915888.831	58.334	**50.220**	ug/L	1.101
⌊	Pb	208	656247.311	1051.372	**50.663**	ug/L	0.380
⌈	Na	23	25444185.435	21235.155	**4.974**	mg/L	0.618
|	Mg	24	17863499.593	585.362	**4.946**	mg/L	0.402
|	K	39	44101230.472	523798.486	**4.922**	mg/L	0.449
|	Ca	44	1102751.291	22549.288	**4.408**	mg/L	0.988
|	Fe	54	3051951.458	25597.925	**5.073**	mg/L	0.441
⌊>	Sc-1	45	277779.734	288424.420		ug/L	
	Kr	83	174.670	173.337		ug/L	
	Cl	35	29879327.513	30039050.899		mg/L	
	C	12	333767.008	302795.885		mg/L	
	Y	89	143292.153	154072.595		ug/L	
⌈	Br	79	12855.529	2021.619	**50.124**	ug/L	1.266
|	Br	81	24475.790	14369.888	**48.433**	ug/L	2.687
⌊>	Ge-1	72	76984.794	81751.619		ug/L	
	Ru	99	15.667	1.333		ug/L	
	Pd	105	1486.825	1525.834		ug/L	
	Ho	165	158357.080	176668.743		ug/L	
	Th	232	854181.986	211.005	**49.488**	ug/L	1.137
⌈	Mo	95	100837.971	94.668	**49.503**	ug/L	1.694
|	Mo	97	64166.832	57.334	**50.012**	ug/L	2.039
|	Mo r	98	163071.179	142.338	**49.717**	ug/L	2.738
|	Rh	103	50.001	20.000		ug/L	
⌊>	In-1	115	138332.229	154619.939		ug/L	
	Ti	47	312.009	293.675		ug/L	
	Li	7	17801.754	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
QC Std 2	Ca	44	CCV (CLC) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 4

Sample Description:
Autosampler Position: 1
Sample Date/Time: Friday, February 10, 2012 10:23:04
Dataset File: C:\Elandata\DataSet\EL120210\QC Std 4.019
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	5.000	2.667	0.007	ug/L	108.089
|>	Li u	6	280266.496	291368.212		ug/L	
⌞	Li	6	278807.247	289860.701		ug/L	
⌜	Be	9	5.000	2.667	0.008	ug/L	102.718
|	B	11	278.341	166.337	0.345	ug/L	38.017
|	Al	27	963.070	1170.101	-0.026	ug/L	24.144
|>	Sc	45	264927.309	288424.420		ug/L	
|	V r	51	-277.670	-914.216	0.080	ug/L	97.981
|	V u	51	93903.591	82527.835	2.495	ug/L	24.063
|	Cr r	52	7938.842	8490.770	0.024	ug/L	156.296
|	Cr	53	32535.723	29093.771	7.986	ug/L	23.965
|	Mn	55	539.024	541.691	0.004	ug/L	28.306
|	Co	59	68.001	56.667	0.002	ug/L	47.274
|	Ni r	60	42.001	62.668	-0.011	ug/L	10.945
|	Ni	62	63.001	79.335	-0.049	ug/L	35.000
|	Cu r	63	193.004	187.338	0.007	ug/L	117.188
⌞	Cu	65	110.335	104.668	0.011	ug/L	41.715
⌜	Zn r	66	167.337	221.005	-0.053	ug/L	29.189
|	Zn	67	2643.482	1722.879	6.581	ug/L	17.110
|	Zn	68	339.344	293.009	0.102	ug/L	33.772
|>	Ge	72	77795.526	81751.619		ug/L	
|	As r	75	-0.576	-6.938	0.006	ug/L	272.861
|	As u	75	4325.595	4749.848	-0.195	ug/L	104.786
|	Se r	82	-9.821	-6.841	-0.029	ug/L	703.679
|	Se	77	1389.498	1496.171	-0.399	ug/L	198.366
⌞	Sr	88	189.338	140.003	0.004	ug/L	42.536
⌜	Ag r	107	83.335	40.667	0.009	ug/L	82.250
|	Ag	109	69.668	41.001	0.006	ug/L	65.499
|	Cd r	111	121.464	138.023	-0.004	ug/L	414.474
|	Cd	106	-1613.875	-1698.819	-0.516	ug/L	140.862
|	Cd	108	-1703.448	-1805.708	-0.590	ug/L	125.637
|	Cd	114	28.861	18.484	0.004	ug/L	59.523
|	Cd u	111	11.000	11.667	0.000	ug/L	2137.732
|>	In	115	141453.733	154619.939		ug/L	
|	Sb r	123	55.164	41.122	0.006	ug/L	17.818
⌞	Sb	121	73.334	48.334	0.007	ug/L	32.642

⌈	Sn	118	204.005	168.337	**0.012**	ug/L	54.934
|	Sn r	120	285.675	228.006	**0.014**	ug/L	56.164
|	Ba r	137	33.000	38.334	**-0.001**	ug/L	175.000
|	Ba	135	25.334	18.334	**0.007**	ug/L	45.206
|>	Tb	159	169125.555	181319.786		ug/L	
|	Tl r	205	2321.065	605.030	**0.173**	ug/L	43.540
|	Tl	203	948.738	251.340	**0.168**	ug/L	41.877
|	U	238	142.003	58.334	**0.005**	ug/L	17.019
⌊	Pb	208	723.687	1051.372	**-0.019**	ug/L	28.266
⌈	Na	23	23628.477	21235.155	**0.001**	mg/L	6.357
|	Mg	24	1777.559	585.362	**0.000**	mg/L	19.105
|	K	39	512384.443	523798.486	**0.004**	mg/L	19.281
|	Ca	44	15768.971	22549.288	**-0.021**	mg/L	3.780
|	Fe	54	23602.344	25597.925	**0.000**	mg/L	487.328
⌊>	Sc-1	45	264927.309	288424.420		ug/L	
	Kr	83	171.004	173.337		ug/L	
	Cl	35	29324582.024	30039050.899		mg/L	
	C	12	278577.472	302795.885		mg/L	
	Y	89	143578.812	154072.595		ug/L	
⌈	Br	79	2198.003	2021.619	**1.243**	ug/L	29.528
|	Br	81	14073.670	14369.888	**1.748**	ug/L	11.091
⌊>	Ge-1	72	77795.526	81751.619		ug/L	
	Ru	99	0.667	1.333		ug/L	
	Pd	105	1439.816	1525.834		ug/L	
	Ho	165	163091.616	176668.743		ug/L	
	Th	232	775.714	211.005	**0.033**	ug/L	26.165
⌈	Mo	95	163.003	94.668	**0.037**	ug/L	25.704
|	Mo	97	121.336	57.334	**0.053**	ug/L	48.860
|	Mo r	98	256.602	142.338	**0.038**	ug/L	50.108
|	Rh	103	3.667	20.000		ug/L	
⌊>	In-1	115	141453.733	154619.939		ug/L	
	Ti	47	210.672	293.675		ug/L	
	Li	7	17993.203	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
QC Std 4	V u	51	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cr	53	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Zn	67	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cd	106	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cd	108	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br	79	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br	81	IBL (LCB) is out of limits (+/- 0.400ug/L)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 5

Sample Description:
Autosampler Position: 5
Sample Date/Time: Friday, February 10, 2012 10:28:18
Dataset File: C:\Elandata\DataSet\EL120210\QC Std 5.020
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	33291.551	2.667	**96.783**	ug/L	1.184
|>	Li u	6	290038.691	291368.212		ug/L	
⌊	Li	6	279085.946	289860.701		ug/L	
⌈	Be	9	33291.551	2.667	**103.271**	ug/L	0.301
|	B	11	37845.948	166.337	**100.322**	ug/L	2.494
|	Al	27	408536.426	1170.101	**91.248**	ug/L	0.453
|>	Sc	45	273569.669	288424.420		ug/L	
|	V r	51	731207.173	-914.216	**100.618**	ug/L	1.427
|	V u	51	833270.265	82527.835	**100.718**	ug/L	1.044
|	Cr r	52	620907.818	8490.770	**101.694**	ug/L	0.762
|	Cr	53	104683.985	29093.771	**102.510**	ug/L	2.339
|	Mn	55	986977.814	541.691	**99.608**	ug/L	1.572
|	Co	59	711380.413	56.667	**101.080**	ug/L	1.574
|	Ni r	60	144825.954	62.668	**100.469**	ug/L	2.416
|	Ni	62	21317.382	79.335	**102.353**	ug/L	1.749
|	Cu r	63	300272.984	187.338	**101.748**	ug/L	1.059
⌊	Cu	65	138799.880	104.668	**102.658**	ug/L	1.022
⌈	Zn r	66	85361.201	221.005	**107.798**	ug/L	0.924
|	Zn	67	17405.845	1722.879	**106.469**	ug/L	1.354
|	Zn	68	62335.529	293.009	**107.205**	ug/L	0.871
|>	Ge	72	75744.856	81751.619		ug/L	
|	As r	75	105906.177	-6.938	**103.280**	ug/L	1.326
|	As u	75	105415.141	4749.848	**103.500**	ug/L	0.696
|	Se r	82	11779.605	-6.841	**102.442**	ug/L	1.709
|	Se	77	10219.468	1496.171	**105.606**	ug/L	0.628
⌊	Sr	88	1303765.540	140.003	**102.536**	ug/L	0.706
⌈	Ag r	107	256815.878	40.667	**50.127**	ug/L	1.352
|	Ag	109	246424.708	41.001	**50.633**	ug/L	0.874
|	Cd r	111	127289.012	138.023	**103.295**	ug/L	1.135
|	Cd	106	10052.675	-1698.819	**102.725**	ug/L	1.399
|	Cd	108	7159.511	-1805.708	**103.427**	ug/L	0.353
|	Cd	114	296939.423	18.484	**102.309**	ug/L	1.814
|	Cd u	111	127805.261	11.667	**103.353**	ug/L	1.066
|>	In	115	137164.816	154619.939		ug/L	
|	Sb r	123	311221.478	41.122	**101.282**	ug/L	1.390
⌊	Sb	121	413373.199	48.334	**101.670**	ug/L	1.348

⌈	Sn	118	128.002	168.337	**-0.006**	ug/L	17.020
|	Sn r	120	170.004	228.006	**-0.007**	ug/L	33.122
|	Ba r	137	188254.833	38.334	**100.633**	ug/L	1.281
|	Ba	135	109094.670	18.334	**101.293**	ug/L	1.715
|>	Tb	159	163677.818	181319.786		ug/L	
|	Tl r	205	995633.434	605.030	**101.321**	ug/L	0.765
|	Tl	203	414925.906	251.340	**101.041**	ug/L	1.890
|	U	238	53.001	58.334	**0.000**	ug/L	2253.462
⌊	Pb	208	1345412.528	1051.372	**104.182**	ug/L	2.322
⌈	Na	23	497303.674	21235.155	**0.095**	mg/L	0.192
|	Mg	24	301790.376	585.362	**0.085**	mg/L	1.247
|	K	39	8986019.165	523798.486	**0.973**	mg/L	0.495
|	Ca	44	43320.079	22549.288	**0.091**	mg/L	1.733
|	Fe	54	72228.409	25597.925	**0.082**	mg/L	1.031
⌊>	Sc-1	45	273569.669	288424.420		ug/L	
	Kr	83	167.003	173.337		ug/L	
	Cl	35	27280889.714	30039050.899		mg/L	
	C	12	304458.389	302795.885		mg/L	
	Y	89	139696.126	154072.595		ug/L	
⌈	Br	79	2114.979	2021.619	**1.126**	ug/L	13.447
|	Br	81	13162.050	14369.888	**-0.684**	ug/L	59.319
⌊>	Ge-1	72	75744.856	81751.619		ug/L	
	Ru	99	23.000	1.333		ug/L	
	Pd	105	1528.167	1525.834		ug/L	
	Ho	165	158665.908	176668.743		ug/L	
	Th	232	2607.830	211.005	**0.139**	ug/L	34.155
⌈	Mo	95	202702.450	94.668	**100.382**	ug/L	0.449
|	Mo	97	127382.707	57.334	**100.149**	ug/L	0.860
|	Mo r	98	325618.492	142.338	**100.140**	ug/L	2.097
|	Rh	103	96.002	20.000		ug/L	
⌊>	In-1	115	137164.816	154619.939		ug/L	
	Ti	47	52221.547	293.675		ug/L	
	Li	7	135052.339	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
QC Std 5	U	238	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Mg	24	SCV (LVM) is out of limits (+/- 10%)
QC Std 5	Fe	54	SCV (LVM) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 6

Sample Description:
Autosampler Position: 9
Sample Date/Time: Friday, February 10, 2012 10:33:31
Dataset File: C:\Elandata\DataSet\EL120210\QC Std 6.021
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	134.003	2.667	0.393	ug/L	4.338
|>	Li u	6	282184.149	291368.212		ug/L	
⌞	Li	6	280722.191	289860.701		ug/L	
⌜	Be	9	134.003	2.667	0.421	ug/L	3.851
|	B	11	480.020	166.337	0.900	ug/L	27.815
|	Al	27	2744.851	1170.101	0.386	ug/L	3.810
|>	Sc	45	264998.042	288424.420		ug/L	
|	V r	51	2154.250	-914.216	0.425	ug/L	44.844
|	V u	51	97932.685	82527.835	3.043	ug/L	13.417
|	Cr r	52	10376.432	8490.770	0.441	ug/L	3.633
|	Cr	53	33612.329	29093.771	9.442	ug/L	13.040
|	Mn	55	4062.113	541.691	0.372	ug/L	2.989
|	Co	59	2524.773	56.667	0.363	ug/L	1.310
|	Ni r	60	551.359	62.668	0.354	ug/L	2.571
|	Ni	62	144.669	79.335	0.357	ug/L	17.901
|	Cu r	63	1522.500	187.338	0.473	ug/L	7.121
⌞	Cu	65	724.708	104.668	0.480	ug/L	4.108
⌜	Zn r	66	485.020	221.005	0.340	ug/L	4.178
|	Zn	67	2781.865	1722.879	7.522	ug/L	9.740
|	Zn	68	561.026	293.009	0.476	ug/L	12.590
|>	Ge	72	77659.499	81751.619		ug/L	
|	As r	75	383.787	-6.938	0.372	ug/L	24.338
|	As u	75	4990.669	4749.848	0.479	ug/L	31.050
|	Se r	82	55.912	-6.841	0.529	ug/L	26.311
|	Se	77	1455.568	1496.171	0.400	ug/L	175.006
⌞	Sr	88	4938.301	140.003	0.369	ug/L	2.383
⌜	Ag r	107	1975.607	40.667	0.364	ug/L	3.516
|	Ag	109	1885.250	41.001	0.365	ug/L	1.049
|	Cd r	111	582.658	138.023	0.356	ug/L	6.431
|	Cd	106	-1533.764	-1698.819	0.277	ug/L	266.285
|	Cd	108	-1634.139	-1805.708	0.348	ug/L	212.976
|	Cd	114	1128.307	18.484	0.368	ug/L	0.684
|	Cd u	111	472.686	11.667	0.360	ug/L	3.177
|>	In	115	142531.324	154619.939		ug/L	
|	Sb r	123	1169.137	41.122	0.354	ug/L	3.597
⌞	Sb	121	1576.177	48.334	0.363	ug/L	3.670

⌈	Sn	118	1495.827	168.337	**0.342**	ug/L	5.373
|	Sn r	120	1938.264	228.006	**0.322**	ug/L	1.854
|	Ba r	137	733.709	38.334	**0.356**	ug/L	4.769
|	Ba	135	432.350	18.334	**0.367**	ug/L	3.335
|>	Tb	159	171604.201	181319.786		ug/L	
|	Tl r	205	4794.208	605.030	**0.410**	ug/L	3.248
|	Tl	203	1958.603	251.340	**0.400**	ug/L	5.551
|	U	238	6972.562	58.334	**0.363**	ug/L	1.623
⌊	Pb	208	5570.850	1051.372	**0.338**	ug/L	2.889
⌈	Na	23	189360.149	21235.155	**0.035**	mg/L	1.362
|	Mg	24	106866.032	585.362	**0.031**	mg/L	1.450
|	K	39	755617.371	523798.486	**0.032**	mg/L	1.362
|	Ca	44	22720.398	22549.288	**0.009**	mg/L	8.663
|	Fe	54	39534.028	25597.925	**0.028**	mg/L	2.072
⌊>	Sc-1	45	264998.042	288424.420		ug/L	
	Kr	83	163.670	173.337		ug/L	
	Cl	35	28888275.486	30039050.899		mg/L	
	C	12	314801.992	302795.885		mg/L	
	Y	89	143089.467	154072.595		ug/L	
⌈	Br	79	2088.971	2021.619	**0.766**	ug/L	56.160
|	Br	81	13737.060	14369.888	**0.378**	ug/L	55.840
⌊>	Ge-1	72	77659.499	81751.619		ug/L	
	Ru	99	2.000	1.333		ug/L	
	Pd	105	1402.142	1525.834		ug/L	
	Ho	165	167535.118	176668.743		ug/L	
	Th	232	5086.740	211.005	**0.283**	ug/L	8.910
⌈	Mo	95	952.735	94.668	**0.413**	ug/L	7.121
|	Mo	97	606.030	57.334	**0.419**	ug/L	6.226
|	Mo r	98	1507.238	142.338	**0.408**	ug/L	5.388
|	Rh	103	7.667	20.000		ug/L	
⌊>	In-1	115	142531.324	154619.939		ug/L	
	Ti	47	232.006	293.675		ug/L	
	Li	7	18026.613	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
QC Std 6	B	11	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	V u	51	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Cr	53	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Zn	67	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Ca	44	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Br	79	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Br	81	LCV (DC1, TV 0.4) is out of limits (+/- 50%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 7

Sample Description:
Autosampler Position: 10
Sample Date/Time: Friday, February 10, 2012 10:38:27
Dataset File: C:\Elandata\DataSet\EL120210\QC Std 7.022
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120209.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	236.006	2.667	0.698	ug/L	2.121
|>	Li u	6	281843.082	291368.212		ug/L	
⌊	Li	6	280391.909	289860.701		ug/L	
⌈	Be	9	236.006	2.667	0.763	ug/L	1.182
|	B	11	450.018	166.337	0.841	ug/L	1.877
|	Al	27	3993.076	1170.101	0.693	ug/L	1.307
|>	Sc	45	259897.681	288424.420		ug/L	
|	V r	51	5224.891	-914.216	0.874	ug/L	18.809
|	V u	51	102173.323	82527.835	3.903	ug/L	10.150
|	Cr r	52	12611.457	8490.770	0.866	ug/L	1.667
|	Cr	53	34306.377	29093.771	11.319	ug/L	8.786
|	Mn	55	7476.707	541.691	0.743	ug/L	2.073
|	Co	59	5022.356	56.667	0.744	ug/L	1.809
|	Ni r	60	1093.422	62.668	0.758	ug/L	0.429
|	Ni	62	200.338	79.335	0.654	ug/L	7.153
|	Cu r	63	2431.742	187.338	0.808	ug/L	5.096
⌊	Cu	65	1128.427	104.668	0.806	ug/L	0.835
⌈	Zn r	66	741.710	221.005	0.655	ug/L	3.936
|	Zn	67	2872.899	1722.879	8.089	ug/L	8.997
|	Zn	68	796.383	293.009	0.871	ug/L	3.986
|>	Ge	72	77768.269	81751.619		ug/L	
|	As r	75	726.916	-6.938	0.695	ug/L	41.418
|	As u	75	5439.978	4749.848	0.919	ug/L	9.880
|	Se r	82	85.545	-6.841	0.780	ug/L	15.793
|	Se	77	1559.895	1496.171	1.593	ug/L	18.386
⌊	Sr	88	9640.468	140.003	0.728	ug/L	0.964
⌈	Ag r	107	3887.688	40.667	0.728	ug/L	1.632
|	Ag	109	3732.944	41.001	0.736	ug/L	4.082
|	Cd r	111	1024.398	138.023	0.707	ug/L	6.399
|	Cd	106	-1564.913	-1698.819	-0.082	ug/L	1416.289
|	Cd	108	-1662.003	-1805.708	-0.100	ug/L	1368.847
|	Cd	114	2198.603	18.484	0.728	ug/L	3.200
|	Cd u	111	928.065	11.667	0.719	ug/L	6.834
|>	In	115	141581.741	154619.939		ug/L	
|	Sb r	123	2309.867	41.122	0.716	ug/L	3.143
⌊	Sb	121	3048.968	48.334	0.716	ug/L	2.439

⌈	Sn	118	2898.575	168.337	**0.700**	ug/L	2.262
|	Sn r	120	3882.018	228.006	**0.685**	ug/L	0.996
|	Ba r	137	1450.818	38.334	**0.720**	ug/L	3.719
|	Ba	135	830.053	18.334	**0.719**	ug/L	2.183
|>	Tb	159	171818.762	181319.786		ug/L	
|	Tl r	205	8044.955	605.030	**0.725**	ug/L	4.019
|	Tl	203	3232.712	251.340	**0.695**	ug/L	4.221
|	U	238	13903.028	58.334	**0.725**	ug/L	2.050
⌊	Pb	208	10545.253	1051.372	**0.705**	ug/L	2.368
⌈	Na	23	353248.369	21235.155	**0.070**	mg/L	0.043
|	Mg	24	214928.846	585.362	**0.063**	mg/L	1.305
|	K	39	1015228.266	523798.486	**0.066**	mg/L	0.189
|	Ca	44	29854.457	22549.288	**0.042**	mg/L	0.891
|	Fe	54	57044.042	25597.925	**0.061**	mg/L	5.123
⌊>	Sc-1	45	259897.681	288424.420		ug/L	
	Kr	83	167.670	173.337		ug/L	
	Cl	35	28749532.714	30039050.899		mg/L	
	C	12	313263.117	302795.885		mg/L	
	Y	89	143452.024	154072.595		ug/L	
⌈	Br	79	2218.676	2021.619	**1.339**	ug/L	15.408
|	Br	81	13832.569	14369.888	**0.710**	ug/L	152.441
⌊>	Ge-1	72	77768.269	81751.619		ug/L	
	Ru	99	3.000	1.333		ug/L	
	Pd	105	1460.820	1525.834		ug/L	
	Ho	165	165871.996	176668.743		ug/L	
	Th	232	10955.943	211.005	**0.623**	ug/L	8.585
⌈	Mo	95	1513.164	94.668	**0.685**	ug/L	2.744
|	Mo	97	975.072	57.334	**0.703**	ug/L	3.576
|	Mo r	98	2481.797	142.338	**0.701**	ug/L	0.916
|	Rh	103	6.667	20.000		ug/L	
⌊>	In-1	115	141581.741	154619.939		ug/L	
	Ti	47	226.006	293.675		ug/L	
	Li	7	17893.634	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
QC Std 7	V u	51	LCV (DC1, TV 0.8) is out of limits (+/- 50%)
QC Std 7	Cr	53	LCV (DC1, TV 0.8) is out of limits (+/- 50%)
QC Std 7	Zn	67	LCV (DC1, TV 0.8) is out of limits (+/- 50%)
QC Std 7	Cd	106	LCV (DC1, TV 0.8) is out of limits (+/- 50%)
QC Std 7	Cd	108	LCV (DC1, TV 0.8) is out of limits (+/- 50%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: BB20803-BLK1

Sample Description:
Autosampler Position: 17
Sample Date/Time: Friday, February 10, 2012 10:45:22
Dataset File: C:\Elandata\DataSet\EL120210\BB20803-BLK1.023
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	3.000	2.667	0.001	ug/L	322.788
|>	Li u	6	294122.971	291368.212		ug/L	
⌊	Li	6	292628.848	289860.701		ug/L	
⌈	Be	9	3.000	2.667	0.002	ug/L	185.022
|	B	11	203.338	166.337	0.139	ug/L	17.121
|	Al	27	2549.784	1170.101	0.342	ug/L	18.217
|>	Sc	45	264943.354	288424.420		ug/L	
|	V r	51	-2007.758	-914.216	-0.168	ug/L	228.260
|	V u	51	95062.853	82527.835	2.650	ug/L	11.879
|	Cr r	52	8357.288	8490.770	0.096	ug/L	9.257
|	Cr	53	33845.308	29093.771	9.775	ug/L	2.260
|	Mn	55	572.694	541.691	0.008	ug/L	75.341
|	Co	59	52.667	56.667	0.000	ug/L	713.566
|	Ni r	60	46.001	62.668	-0.008	ug/L	52.636
|	Ni	62	64.001	79.335	-0.044	ug/L	64.158
|	Cu r	63	356.679	187.338	0.065	ug/L	7.766
⌊	Cu	65	166.670	104.668	0.054	ug/L	28.682
⌈	Zn r	66	226.339	221.005	0.021	ug/L	73.111
|	Zn	67	2598.800	1722.879	6.343	ug/L	21.155
|	Zn	68	371.680	293.009	0.158	ug/L	63.278
|>	Ge	72	77546.695	81751.619		ug/L	
|	As r	75	-221.886	-6.938	-0.204	ug/L	113.233
|	As u	75	4714.491	4749.848	0.209	ug/L	25.684
|	Se r	82	-16.774	-6.841	-0.087	ug/L	4.856
|	Se	77	1536.571	1496.171	1.373	ug/L	68.648
⌊	Sr	88	171.004	140.003	0.003	ug/L	56.037
⌈	Ag r	107	37.000	40.667	-0.000	ug/L	577.212
|	Ag	109	27.667	41.001	-0.002	ug/L	38.631
|	Cd r	111	109.449	138.023	-0.015	ug/L	46.801
|	Cd	106	-1633.708	-1698.819	-0.351	ug/L	128.286
|	Cd	108	-1716.238	-1805.708	-0.269	ug/L	261.436
|	Cd	114	14.228	18.484	-0.001	ug/L	375.182
|	Cd u	111	3.667	11.667	-0.006	ug/L	15.764
|>	In	115	144889.415	154619.939		ug/L	
|	Sb r	123	35.788	41.122	-0.001	ug/L	215.271
⌊	Sb	121	57.334	48.334	0.003	ug/L	39.747

⌈	Sn	118	327.010	168.337	**0.043**	ug/L	43.676
|	Sn r	120	455.352	228.006	**0.045**	ug/L	27.951
|	Ba r	137	51.334	38.334	**0.008**	ug/L	170.174
|	Ba	135	29.667	18.334	**0.011**	ug/L	54.004
|>	Tb	159	171150.978	181319.786		ug/L	
|	Tl r	205	556.693	605.030	**-0.001**	ug/L	605.990
|	Tl	203	225.006	251.340	**-0.003**	ug/L	99.290
|	U	238	32.000	58.334	**-0.001**	ug/L	19.101
⌊	Pb	208	625.016	1051.372	**-0.027**	ug/L	27.124
⌈	Na	23	25228.221	21235.155	**0.001**	mg/L	5.840
|	Mg	24	1416.479	585.362	**0.000**	mg/L	16.039
|	K	39	507687.101	523798.486	**0.003**	mg/L	14.493
|	Ca	44	14722.223	22549.288	**-0.026**	mg/L	4.396
|	Fe	54	23619.286	25597.925	**0.000**	mg/L	553.777
⌊>	Sc-1	45	264943.354	288424.420		ug/L	
	Kr	83	165.670	173.337		ug/L	
	Cl	35	29523785.060	30039050.899		mg/L	
	C	12	307108.372	302795.885		mg/L	
	Y	89	144618.663	154072.595		ug/L	
⌈	Br	79	925.398	2021.619	**-4.508**	ug/L	1.183
|	Br	81	12636.497	14369.888	**-4.367**	ug/L	8.073
⌊>	Ge-1	72	77546.695	81751.619		ug/L	
	Ru	99	2.333	1.333		ug/L	
	Pd	105	1449.485	1525.834		ug/L	
	Ho	165	168448.510	176668.743		ug/L	
	Th	232	152.336	211.005	**-0.003**	ug/L	16.111
⌈	Mo	95	90.001	94.668	**0.001**	ug/L	498.617
|	Mo	97	52.667	57.334	**-0.001**	ug/L	422.931
|	Mo r	98	165.782	142.338	**0.009**	ug/L	23.591
|	Rh	103	8.667	20.000		ug/L	
⌊>	In-1	115	144889.415	154619.939		ug/L	
	Tl	47	205.671	293.675		ug/L	
	Li	7	18423.220	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: BB20803-BS1

Sample Description:
Autosampler Position: 18
Sample Date/Time: Friday, February 10, 2012 10:50:42
Dataset File: C:\Elandata\DataSet\EL120210\BB20803-BS1.024
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	690.705	2.667	1.987	ug/L	1.456
|>	Li u	6	291998.119	291368.212		ug/L	
⌊	Li	6	288492.359	289860.701		ug/L	
⌈	Be	9	690.705	2.667	2.160	ug/L	2.395
|	B	11	7751.650	166.337	20.465	ug/L	4.705
|	Al	27	329651.507	1170.101	74.467	ug/L	5.200
|>	Sc	45	270441.965	288424.420		ug/L	
|	V r	51	147251.678	-914.216	20.596	ug/L	5.391
|	V u	51	248447.732	82527.835	23.094	ug/L	5.385
|	Cr r	52	132754.706	8490.770	20.956	ug/L	5.789
|	Cr	53	49056.122	29093.771	29.298	ug/L	3.364
|	Mn	55	204078.834	541.691	20.804	ug/L	6.003
|	Co	59	146393.692	56.667	21.047	ug/L	5.903
|	Ni r	60	30027.500	62.668	21.049	ug/L	4.404
|	Ni	62	4440.662	79.335	21.292	ug/L	6.935
|	Cu r	63	62160.510	187.338	21.268	ug/L	5.799
⌊	Cu	65	29158.855	104.668	21.767	ug/L	5.266
⌈	Zn r	66	17796.445	221.005	21.020	ug/L	6.072
|	Zn	67	6188.217	1722.879	28.606	ug/L	2.178
|	Zn	68	14044.293	293.009	22.444	ug/L	4.322
|>	Ge	72	80211.513	81751.619		ug/L	
|	As r	75	22140.720	-6.938	20.401	ug/L	6.340
|	As u	75	26026.305	4749.848	20.681	ug/L	7.699
|	Se r	82	2399.551	-6.841	19.757	ug/L	6.145
|	Se	77	3289.399	1496.171	20.571	ug/L	8.736
⌊	Sr	88	270186.899	140.003	20.064	ug/L	5.718
⌈	Ag r	107	11310.431	40.667	2.059	ug/L	3.691
|	Ag	109	10635.466	41.001	2.038	ug/L	4.899
|	Cd r	111	2749.087	138.023	1.991	ug/L	4.388
|	Cd	106	-1448.618	-1698.819	1.339	ug/L	59.656
|	Cd	108	-1510.687	-1805.708	2.213	ug/L	48.318
|	Cd	114	6346.892	18.484	2.041	ug/L	4.650
|	Cd u	111	2740.849	11.667	2.066	ug/L	3.637
|>	In	115	146520.990	154619.939		ug/L	
|	Sb r	123	67186.749	41.122	20.456	ug/L	4.037
⌊	Sb	121	87424.200	48.334	20.117	ug/L	4.206

⌈	Sn	118	77654.108	168.337	**19.379**	ug/L	3.883
|	Sn r	120	104957.058	228.006	**19.147**	ug/L	4.875
|	Ba r	137	160000.396	38.334	**79.763**	ug/L	3.845
|	Ba	135	92925.370	18.334	**80.458**	ug/L	4.049
|>	Tb	159	175478.837	181319.786		ug/L	
|	Tl r	205	207569.302	605.030	**19.654**	ug/L	2.155
|	Tl	203	85758.818	251.340	**19.428**	ug/L	2.919
|	U	238	392204.728	58.334	**20.099**	ug/L	2.864
⌊	Pb	208	285415.264	1051.372	**20.550**	ug/L	2.740
⌈	Na	23	1967907.719	21235.155	**0.392**	mg/L	6.160
|	Mg	24	1212619.492	585.362	**0.345**	mg/L	5.344
|	K	39	7500413.473	523798.486	**0.813**	mg/L	5.502
|	Ca	44	100315.336	22549.288	**0.332**	mg/L	4.630
|	Fe	54	122283.863	25597.925	**0.169**	mg/L	5.840
⌊>	Sc-1	45	270441.965	288424.420		ug/L	
	Kr	83	180.671	173.337		ug/L	
	Cl	35	29228928.470	30039050.899		mg/L	
	C	12	305816.327	302795.885		mg/L	
	Y	89	146383.371	154072.595		ug/L	
⌈	Br	79	2310.703	2021.619	**1.437**	ug/L	1.234
|	Br	81	14241.649	14369.888	**0.603**	ug/L	78.134
⌊>	Ge-1	72	80211.513	81751.619		ug/L	
	Ru	99	7.333	1.333		ug/L	
	Pd	105	1504.162	1525.834		ug/L	
	Ho	165	169654.754	176668.743		ug/L	
	Th	232	240.673	211.005	**0.002**	ug/L	5.149
⌈	Mo	95	42370.590	94.668	**19.608**	ug/L	3.942
|	Mo	97	26853.433	57.334	**19.731**	ug/L	3.602
|	Mo r	98	68772.234	142.338	**19.765**	ug/L	3.483
|	Rh	103	20.000	20.000		ug/L	
⌊>	In-1	115	146520.990	154619.939		ug/L	
	Ti	47	10561.693	293.675		ug/L	
	Li	7	43227.620	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202001-27

Sample Description:

Autosampler Position: 19

Sample Date/Time: Friday, February 10, 2012 10:56:02

Dataset File: C:\Elandata\DataSet\EL120210\1202001-27.025

Optimization File: C:\Elandata\Optimize\epa.dac

Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth

Calibration File: C:\Elandata\System\EL120210.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

left out of run on 2-7-12

RC 2-27-12

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	2.667	2.667	0.000	ug/L	2476.577
|>	Li u	6	285260.982	291368.212		ug/L	
L	Li	6	283001.430	289860.701		ug/L	
⌈	Be	9	2.667	2.667	0.001	ug/L	501.066
|	B	11	4573.072	166.337	12.624	ug/L	3.009
|	Al	27	3190.694	1170.101	0.517	ug/L	4.955
|>	Sc	45	255329.699	288424.420		ug/L	
|	V r	51	-658.611	-914.216	0.022	ug/L	539.207
|	V u	51	103355.568	82527.835	4.331	ug/L	11.401
|	Cr r	52	8831.490	8490.770	0.234	ug/L	17.697
|	Cr	53	36492.760	29093.771	15.299	ug/L	9.234
|	Mn	55	665.035	541.691	0.020	ug/L	5.074
|	Co	59	224.006	56.667	0.026	ug/L	9.431
|	Ni r	60	881.059	62.668	0.614	ug/L	4.134
|	Ni	62	87.668	79.335	0.090	ug/L	60.877
|	Cu r	63	12261.562	187.338	4.394	ug/L	3.212
L	Cu	65	5622.778	104.668	4.385	ug/L	2.043
⌈	Zn r	66	1126.094	221.005	1.186	ug/L	2.877
|	Zn	67	3195.696	1722.879	11.072	ug/L	1.487
|	Zn	68	2086.304	293.009	3.187	ug/L	5.922
|>	Ge	72	74697.721	81751.619		ug/L	
|	As r	75	260.899	-6.938	0.264	ug/L	70.886
|	As u	75	6234.924	4749.848	1.968	ug/L	10.580
|	Se r	82	5.925	-6.841	0.107	ug/L	100.937
|	Se	77	1885.021	1496.171	6.280	ug/L	9.692
L	Sr	88	3689931.498	140.003	294.352	ug/L	2.938
⌈	Ag r	107	32.667	40.667	-0.001	ug/L	335.233
|	Ag	109	28.667	41.001	-0.002	ug/L	37.648
|	Cd r	111	103.027	138.023	-0.016	ug/L	47.621
|	Cd	106	-1709.187	-1698.819	-1.686	ug/L	9.442
|	Cd	108	-1775.547	-1805.708	-1.897	ug/L	10.503
|	Cd	114	23.149	18.484	0.002	ug/L	82.034
|	Cd u	111	10.000	11.667	-0.000	ug/L	601.499
|>	In	115	138169.089	154619.939		ug/L	
|	Sb r	123	128.948	41.122	0.030	ug/L	21.142
L	Sb	121	149.336	48.334	0.026	ug/L	1.486

⌈	Sn	118	156.003	168.337	**0.001**	ug/L	1174.080
|	Sn r	120	210.672	228.006	**0.001**	ug/L	1175.586
|	Ba r	137	121639.798	38.334	**64.286**	ug/L	4.231
|	Ba	135	70094.196	18.334	**64.342**	ug/L	4.852
|>	Tb	159	165616.622	181319.786		ug/L	
|	Tl r	205	1100.761	605.030	**0.055**	ug/L	58.991
|	Tl	203	448.685	251.340	**0.053**	ug/L	60.944
|	U	238	13672.953	58.334	**0.740**	ug/L	5.157
⌊	Pb	208	9888.914	1051.372	**0.684**	ug/L	5.534
⌈	Na	23	42465506.845	21235.155	**9.034**	mg/L	2.565
|	Mg	24	12396843.320	585.362	**3.734**	mg/L	2.995
|	K	39	6152810.263	523798.486	**0.699**	mg/L	2.091
|	Ca	44	3560349.819	22549.288	**15.704**	mg/L	4.199
|	Fe	54	23516.299	25597.925	**0.002**	mg/L	60.509
⌊>	Sc-1	45	255329.699	288424.420		ug/L	
	Kr	83	162.003	173.337		ug/L	
	Cl	35	29099209.619	30039050.899		mg/L	
	C	12	316875.295	302795.885		mg/L	
	Y	89	136866.394	154072.595		ug/L	
⌈	Br	79	2039.958	2021.619	**0.908**	ug/L	20.275
|	Br	81	13199.448	14369.888	**0.328**	ug/L	408.344
⌊>	Ge-1	72	74697.721	81751.619		ug/L	
	Ru	99	1.667	1.333		ug/L	
	Pd	105	1505.162	1525.834		ug/L	
	Ho	165	159797.018	176668.743		ug/L	
	Th	232	107.335	211.005	**-0.006**	ug/L	2.947
⌈	Mo	95	376.013	94.668	**0.143**	ug/L	10.378
|	Mo	97	248.673	57.334	**0.154**	ug/L	14.805
|	Mo r	98	600.994	142.338	**0.145**	ug/L	7.039
|	Rh	103	97.335	20.000		ug/L	
⌊>	In-1	115	138169.089	154619.939		ug/L	
	Tl	47	430.016	293.675		ug/L	
	Li	7	27861.311	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202001-28

Sample Description:

Autosampler Position: 20

Sample Date/Time: Friday, February 10, 2012 11:01:24

Dataset File: C:\Elandata\DataSet\EL120210\1202001-28.026

Optimization File: C:\Elandata\Optimize\epa.dac

Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth

Calibration File: C:\Elandata\System\EL120210.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

dont report
ec 2.27.12

just verification

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	1.333	2.667	-0.004	ug/L	114.901
|>	Li u	6	287721.730	291368.212		ug/L	
⌞	Li	6	285417.788	289860.701		ug/L	
⌜	Be	9	1.333	2.667	-0.003	ug/L	155.758
|	B	11	4424.984	166.337	12.351	ug/L	3.653
|	Al	27	3520.508	1170.101	0.606	ug/L	7.146
|>	Sc	45	252328.509	288424.420		ug/L	
|	V r	51	-107.705	-914.216	0.106	ug/L	403.952
|	V u	51	114497.098	82527.835	6.118	ug/L	3.405
|	Cr r	52	9751.276	8490.770	0.418	ug/L	7.551
|	Cr	53	39909.009	29093.771	20.841	ug/L	3.436
|	Mn	55	848.722	541.691	0.041	ug/L	6.373
|	Co	59	211.005	56.667	0.025	ug/L	9.095
|	Ni r	60	798.049	62.668	0.559	ug/L	3.500
|	Ni	62	79.668	79.335	0.054	ug/L	30.023
|	Cu r	63	38967.900	187.338	14.266	ug/L	3.542
⌞	Cu	65	18028.283	104.668	14.395	ug/L	1.684
⌜	Zn r	66	742.043	221.005	0.707	ug/L	4.302
|	Zn	67	3102.657	1722.879	10.743	ug/L	8.025
|	Zn	68	1841.573	293.009	2.803	ug/L	7.728
|>	Ge	72	73636.506	81751.619		ug/L	
|	As r	75	255.618	-6.938	0.263	ug/L	52.963
|	As u	75	7461.693	4749.848	3.355	ug/L	6.235
|	Se r	82	4.542	-6.841	0.095	ug/L	212.632
|	Se	77	2383.799	1496.171	12.742	ug/L	4.475
⌞	Sr	88	3625701.983	140.003	293.328	ug/L	1.536
⌜	Ag r	107	30.667	40.667	-0.001	ug/L	101.867
|	Ag	109	20.334	41.001	-0.003	ug/L	33.532
|	Cd r	111	101.280	138.023	-0.015	ug/L	13.677
|	Cd	106	-1685.847	-1698.819	-1.918	ug/L	23.663
|	Cd	108	-1748.744	-1805.708	-2.187	ug/L	26.577
|	Cd	114	12.590	18.484	-0.001	ug/L	75.025
|	Cd u	111	11.667	11.667	0.001	ug/L	185.793
|>	In	115	134213.289	154619.939		ug/L	
|	Sb r	123	110.281	41.122	0.025	ug/L	11.891
⌞	Sb	121	118.335	48.334	0.019	ug/L	10.648

⌈	Sn	118	201.671	168.337	**0.014**	ug/L	42.913
|	Sn r	120	261.674	228.006	**0.012**	ug/L	10.002
|	Ba r	137	119033.822	38.334	**64.554**	ug/L	2.885
|	Ba	135	69675.605	18.334	**65.633**	ug/L	2.795
|>	Tb	159	161325.143	181319.786		ug/L	
|	Tl r	205	505.022	605.030	**-0.003**	ug/L	134.940
|	Tl	203	207.672	251.340	**-0.004**	ug/L	93.884
|	U	238	14910.930	58.334	**0.828**	ug/L	3.300
⌊	Pb	208	1168.380	1051.372	**0.018**	ug/L	30.142
⌈	Na	23	40127244.062	21235.155	**8.639**	mg/L	3.342
|	Mg	24	12627649.536	585.362	**3.849**	mg/L	3.005
|	K	39	5904994.695	523798.486	**0.677**	mg/L	2.480
|	Ca	44	3507255.121	22549.288	**15.654**	mg/L	2.756
|	Fe	54	23576.263	25597.925	**0.002**	mg/L	46.864
⌊>	Sc-1	45	252328.509	288424.420		ug/L	
	Kr	83	167.670	173.337		ug/L	
	Cl	35	28384966.341	30039050.899		mg/L	
	C	12	319455.594	302795.885		mg/L	
	Y	89	135697.806	154072.595		ug/L	
⌈	Br	79	2016.284	2021.619	**0.935**	ug/L	13.741
|	Br	81	12848.191	14369.888	**-0.438**	ug/L	485.870
⌊>	Ge-1	72	73636.506	81751.619		ug/L	
	Ru	99	2.000	1.333		ug/L	
	Pd	105	1482.824	1525.834		ug/L	
	Ho	165	158635.067	176668.743		ug/L	
	Th	232	86.001	211.005	**-0.007**	ug/L	6.248
⌈	Mo	95	368.346	94.668	**0.145**	ug/L	7.506
|	Mo	97	229.006	57.334	**0.144**	ug/L	11.617
|	Mo r	98	555.101	142.338	**0.136**	ug/L	13.041
|	Rh	103	95.002	20.000		ug/L	
⌊>	In-1	115	134213.289	154619.939		ug/L	
	Ti	47	445.684	293.675		ug/L	
	Li	7	28408.658	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-13

Sample Description:
Autosampler Position: 21
Sample Date/Time: Friday, February 10, 2012 11:06:45
Dataset File: C:\Elandata\DataSet\EL120210\1202003-13.027
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	0.000	2.667	-0.008	ug/L	0.000
|>	Li u	6	295761.027	291368.212		ug/L	
⌊	Li	6	293134.353	289860.701		ug/L	
⌈	Be	9	0.000	2.667	-0.008	ug/L	0.000
|	B	11	5543.053	166.337	15.387	ug/L	4.413
|	Al	27	5657.812	1170.101	1.110	ug/L	11.635
|>	Sc	45	255437.210	288424.420		ug/L	
|	V r	51	-1018.176	-914.216	-0.031	ug/L	146.756
|	V u	51	126818.506	82527.835	7.681	ug/L	5.659
|	Cr r	52	10389.783	8490.770	0.510	ug/L	8.840
|	Cr	53	44339.538	29093.771	26.463	ug/L	5.339
|	Mn	55	2926.587	541.691	0.265	ug/L	6.856
|	Co	59	54.001	56.667	0.001	ug/L	114.224
|	Ni r	60	137.003	62.668	0.061	ug/L	8.994
|	Ni	62	109.002	79.335	0.200	ug/L	9.355
|	Cu r	63	14956.707	187.338	5.374	ug/L	7.145
⌊	Cu	65	6532.508	104.668	5.107	ug/L	5.796
⌈	Zn r	66	728.375	221.005	0.673	ug/L	2.069
|	Zn	67	2975.605	1722.879	9.506	ug/L	5.185
|	Zn	68	900.062	293.009	1.102	ug/L	4.345
|>	Ge	72	74934.316	81751.619		ug/L	
|	As r	75	1337.525	-6.938	1.327	ug/L	24.988
|	As u	75	9583.399	4749.848	5.419	ug/L	7.269
|	Se r	82	-5.168	-6.841	0.010	ug/L	2262.671
|	Se	77	2671.532	1496.171	15.715	ug/L	3.848
⌊	Sr	88	163229.513	140.003	12.973	ug/L	6.619
⌈	Ag r	107	24.667	40.667	-0.002	ug/L	27.801
|	Ag	109	22.000	41.001	-0.003	ug/L	26.630
|	Cd r	111	38.344	138.023	-0.068	ug/L	4.499
|	Cd	106	-1529.500	-1698.819	-0.134	ug/L	356.298
|	Cd	108	-1545.484	-1805.708	0.754	ug/L	81.091
|	Cd	114	12.497	18.484	-0.001	ug/L	39.530
|	Cd u	111	6.333	11.667	-0.003	ug/L	12.648
|>	In	115	137863.274	154619.939		ug/L	
|	Sb r	123	36.661	41.122	0.000	ug/L	45239.227
⌊	Sb	121	64.668	48.334	0.005	ug/L	61.273

⌈	Sn	118	143.003	168.337	-0.003	ug/L	165.928
|	Sn r	120	181.671	228.006	-0.006	ug/L	64.979
|	Ba r	137	14137.807	38.334	7.357	ug/L	6.526
|	Ba	135	8225.150	18.334	7.437	ug/L	6.132
|>	Tb	159	167872.193	181319.786		ug/L	
|	Tl r	205	385.347	605.030	-0.017	ug/L	5.003
|	Tl	203	149.003	251.340	-0.020	ug/L	24.197
|	U	238	8441.054	58.334	0.450	ug/L	7.064
⌊	Pb	208	582.014	1051.372	-0.030	ug/L	10.774
⌈	Na	23	123811420.057	21235.155	26.354	mg/L	7.775
|	Mg	24	731182.598	585.362	0.220	mg/L	7.118
|	K	39	1238356.919	523798.486	0.095	mg/L	7.126
|	Ca	44	141796.382	22549.288	0.541	mg/L	7.196
|	Fe	54	24168.497	25597.925	0.003	mg/L	60.821
⌊>	Sc-1	45	255437.210	288424.420		ug/L	
	Kr	83	172.670	173.337		ug/L	
	Cl	35	29321874.848	30039050.899		mg/L	
	C	12	316066.123	302795.885		mg/L	
	Y	89	136601.650	154072.595		ug/L	
⌈	Br	79	3505.834	2021.619	7.772	ug/L	3.553
|	Br	81	14488.781	14369.888	5.984	ug/L	12.348
⌊>	Ge-1	72	74934.316	81751.619		ug/L	
	Ru	99	0.667	1.333		ug/L	
	Pd	105	1360.801	1525.834		ug/L	
	Ho	165	164359.453	176668.743		ug/L	
	Th	232	76.668	211.005	-0.008	ug/L	6.755
⌈	Mo	95	551.359	94.668	0.230	ug/L	11.903
|	Mo	97	343.344	57.334	0.229	ug/L	7.115
|	Mo r	98	895.284	142.338	0.235	ug/L	9.925
|	Rh	103	11.000	20.000		ug/L	
⌊>	In-1	115	137863.274	154619.939		ug/L	
	Ti	47	420.016	293.675		ug/L	
	Li	7	32388.093	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Na 23 Upper, S, EEE	Na 23	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-14

Sample Description:
Autosampler Position: 22
Sample Date/Time: Friday, February 10, 2012 11:12:07
Dataset File: C:\Elandata\DataSet\EL120210\1202003-14.028
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.000	2.667	-0.005	ug/L	57.514
|>	Li u	6	299438.546	291368.212		ug/L	
⌊	Li	6	296362.882	289860.701		ug/L	
⌈	Be	9	1.000	2.667	-0.005	ug/L	72.961
|	B	11	9513.314	166.337	26.579	ug/L	4.129
|	Al	27	4582.410	1170.101	0.846	ug/L	1.285
|>	Sc	45	256593.607	288424.420		ug/L	
|	V r	51	-1605.034	-914.216	-0.116	ug/L	168.770
|	V u	51	122401.080	82527.835	6.967	ug/L	2.570
|	Cr r	52	10200.861	8490.770	0.468	ug/L	1.101
|	Cr	53	42793.834	29093.771	23.975	ug/L	5.557
|	Mn	55	7119.036	541.691	0.715	ug/L	5.405
|	Co	59	145.003	56.667	0.014	ug/L	10.385
|	Ni r	60	705.039	62.668	0.480	ug/L	4.385
|	Ni	62	74.334	79.335	0.019	ug/L	223.912
|	Cu r	63	4969.323	187.338	1.736	ug/L	4.310
⌊	Cu	65	2220.343	104.668	1.679	ug/L	4.797
⌈	Zn r	66	1213.441	221.005	1.311	ug/L	2.374
|	Zn	67	3804.979	1722.879	15.443	ug/L	4.603
|	Zn	68	4233.875	293.009	7.006	ug/L	3.205
|>	Ge	72	74100.939	81751.619		ug/L	
|	As r	75	212.605	-6.938	0.218	ug/L	76.275
|	As u	75	8758.404	4749.848	4.664	ug/L	2.154
|	Se r	82	10.957	-6.841	0.152	ug/L	32.134
|	Se	77	2736.998	1496.171	16.876	ug/L	4.133
⌊	Sr	88	5766851.715	140.003	463.636	ug/L	2.678
⌈	Ag r	107	23.000	40.667	-0.003	ug/L	1.937
|	Ag	109	17.334	41.001	-0.004	ug/L	16.371
|	Cd r	111	111.028	138.023	-0.008	ug/L	79.189
|	Cd	106	-1874.451	-1698.819	-3.457	ug/L	17.117
|	Cd	108	-1952.797	-1805.708	-4.409	ug/L	20.229
|	Cd	114	6.949	18.484	-0.003	ug/L	34.126
|	Cd u	111	6.000	11.667	-0.003	ug/L	62.701
|>	In	115	135632.995	154619.939		ug/L	
|	Sb r	123	51.898	41.122	0.005	ug/L	44.324
⌊	Sb	121	47.334	48.334	0.001	ug/L	168.562

⌈	Sn	118	151.003	168.337	**-0.001**	ug/L	176.351
|	Sn r	120	231.339	228.006	**0.005**	ug/L	78.201
|	Ba r	137	376669.131	38.334	**199.308**	ug/L	2.723
|	Ba	135	219029.175	18.334	**201.293**	ug/L	2.722
|>	Tb	159	165372.365	181319.786		ug/L	
⌈	Tl r	205	298.342	605.030	**-0.026**	ug/L	10.164
|	Tl	203	120.002	251.340	**-0.026**	ug/L	8.655
|	U	238	3423.129	58.334	**0.183**	ug/L	2.625
⌊	Pb	208	552.680	1051.372	**-0.031**	ug/L	6.845
⌈	Na	23	48280268.525	21235.155	**10.221**	mg/L	1.193
|	Mg	24	11733003.981	585.362	**3.517**	mg/L	0.746
|	K	39	5825906.327	523798.486	**0.655**	mg/L	1.092
|	Ca	44	2999117.722	22549.288	**13.149**	mg/L	1.740
|	Fe	54	23476.639	25597.925	**0.001**	mg/L	79.363
⌊>	Sc-1	45	256593.607	288424.420		ug/L	
	Kr	83	158.337	173.337		ug/L	
	Cl	35	28766903.760	30039050.899		mg/L	
	C	12	317938.825	302795.885		mg/L	
	Y	89	137385.155	154072.595		ug/L	
⌈	Br	79	10295.993	2021.619	**40.241**	ug/L	3.631
|	Br	81	21360.173	14369.888	**38.319**	ug/L	6.286
⌊>	Ge-1	72	74100.939	81751.619		ug/L	
	Ru	99	0.667	1.333		ug/L	
	Pd	105	1659.529	1525.834		ug/L	
	Ho	165	162172.404	176668.743		ug/L	
	Th	232	69.001	211.005	**-0.008**	ug/L	2.113
⌈	Mo	95	249.007	94.668	**0.083**	ug/L	0.187
|	Mo	97	165.670	57.334	**0.092**	ug/L	18.638
|	Mo r	98	373.163	142.338	**0.077**	ug/L	3.493
|	Rh	103	136.003	20.000		ug/L	
⌊>	In-1	115	135632.995	154619.939		ug/L	
	Ti	47	437.350	293.675		ug/L	
	Li	7	37924.342	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
Ba r 137 Upper, S, EEE	Ba r	137	Sample greater than CLM3
Na 23 Upper, S, EEE	Na	23	Sample greater than CLM3
Ca 44 Upper, S, EEE	Ca	44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-15 BB20803-14 DUP1

Sample Description:

Autosampler Position: 23

Sample Date/Time: Friday, February 10, 2012 11:17:30

Dataset File: C:\Elandata\DataSet\EL120210\1202003-15.029

Optimization File: C:\Elandata\Optimize\epa.dac

Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth

Calibration File: C:\Elandata\System\EL120210.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

RC 2.27.12

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.000	2.667	-0.005	ug/L	0.448
|>	Li u	6	297017.442	291368.212		ug/L	
L	Li	6	293966.798	289860.701		ug/L	
⌈	Be	9	1.000	2.667	-0.005	ug/L	0.671
|	B	11	9520.662	166.337	26.914	ug/L	6.572
|	Al	27	5040.035	1170.101	0.969	ug/L	4.046
|>	Sc	45	253729.772	288424.420		ug/L	
|	V r	51	-1855.685	-914.216	-0.156	ug/L	36.469
|	V u	51	129675.279	82527.835	8.212	ug/L	4.844
|	Cr r	52	10606.749	8490.770	0.561	ug/L	7.322
|	Cr	53	45342.046	29093.771	28.321	ug/L	5.406
|	Mn	55	7307.548	541.691	0.744	ug/L	6.112
|	Co	59	162.003	56.667	0.017	ug/L	14.849
|	Ni r	60	713.707	62.668	0.493	ug/L	7.195
|	Ni	62	80.001	79.335	0.053	ug/L	83.355
|	Cu r	63	5043.039	187.338	1.784	ug/L	5.615
L	Cu	65	2254.353	104.668	1.726	ug/L	5.858
⌈	Zn r	66	1194.772	221.005	1.306	ug/L	6.634
|	Zn	67	3800.643	1722.879	15.733	ug/L	3.466
|	Zn	68	4245.218	293.009	7.123	ug/L	9.186
|>	Ge	72	73211.502	81751.619		ug/L	
|	As r	75	72.825	-6.938	0.079	ug/L	229.530
|	As u	75	9369.465	4749.848	5.425	ug/L	5.836
|	Se r	82	27.363	-6.841	0.301	ug/L	58.993
|	Se	77	2942.142	1496.171	19.829	ug/L	7.118
L	Sr	88	5902850.465	140.003	480.590	ug/L	6.916
⌈	Ag r	107	23.334	40.667	-0.003	ug/L	33.772
|	Ag	109	13.333	41.001	-0.005	ug/L	8.573
|	Cd r	111	105.601	138.023	-0.014	ug/L	50.696
|	Cd	106	-1819.460	-1698.819	-2.731	ug/L	10.297
|	Cd	108	-1893.832	-1805.708	-3.383	ug/L	14.549
|	Cd	114	11.786	18.484	-0.002	ug/L	150.905
|	Cd u	111	4.333	11.667	-0.005	ug/L	10.207
|>	In	115	137545.023	154619.939		ug/L	
|	Sb r	123	56.099	41.122	0.006	ug/L	39.167
L	Sb	121	34.334	48.334	-0.002	ug/L	96.151

⌈	Sn	118	281.341	168.337	**0.034**	ug/L	3.918
|	Sn r	120	382.347	228.006	**0.034**	ug/L	21.384
|	Ba r	137	376621.585	38.334	**199.970**	ug/L	5.540
|	Ba	135	219987.716	18.334	**202.869**	ug/L	5.154
|>	Tb	159	164710.648	181319.786		ug/L	
|	Tl r	205	279.008	605.030	**-0.027**	ug/L	9.185
|	Tl	203	112.335	251.340	**-0.028**	ug/L	11.622
|	U	238	3392.784	58.334	**0.182**	ug/L	5.652
⌊	Pb	208	530.012	1051.372	**-0.033**	ug/L	5.441
⌈	Na	23	48817034.962	21235.155	**10.455**	mg/L	6.133
|	Mg	24	12010037.140	585.362	**3.641**	mg/L	5.085
|	K	39	5867739.119	523798.486	**0.669**	mg/L	5.936
|	Ca	44	3031919.437	22549.288	**13.449**	mg/L	5.362
|	Fe	54	23760.788	25597.925	**0.002**	mg/L	86.046
⌊>	Sc-1	45	253729.772	288424.420		ug/L	
	Kr	83	150.003	173.337		ug/L	
	Cl	35	29234117.224	30039050.899		mg/L	
	C	12	321113.446	302795.885		mg/L	
	Y	89	135623.869	154072.595		ug/L	
⌈	Br	79	11661.952	2021.619	**47.419**	ug/L	3.226
|	Br	81	22790.609	14369.888	**46.182**	ug/L	5.134
⌊>	Ge-1	72	73211.502	81751.619		ug/L	
	Ru	99	3.333	1.333		ug/L	
	Pd	105	1607.517	1525.834		ug/L	
	Ho	165	158806.456	176668.743		ug/L	
	Th	232	72.001	211.005	**-0.008**	ug/L	5.431
⌈	Mo	95	243.340	94.668	**0.079**	ug/L	34.950
|	Mo	97	147.670	57.334	**0.076**	ug/L	22.542
|	Mo r	98	402.349	142.338	**0.085**	ug/L	8.165
|	Rh	103	146.670	20.000		ug/L	
⌊>	In-1	115	137545.023	154619.939		ug/L	
	Ti	47	430.683	293.675		ug/L	
	Li	7	37615.832	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
Ba r 137 Upper, S, EEE	Ba r	137	Sample greater than CLM3
Na 23 Upper, S, EEE	Na	23	Sample greater than CLM3
Ca 44 Upper, S, EEE	Ca	44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-16 15

Sample Description:

Autosampler Position: 24

Sample Date/Time: Friday, February 10, 2012 11:22:49

Dataset File: C:\Elandata\DataSet\EL120210\1202003-16.030

Optimization File: C:\Elandata\Optimize\epa.dac

Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth

Calibration File: C:\Elandata\System\EL120210.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

RC 2.27.12

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	0.667	2.667	-0.006	ug/L	54.388
|>	Li u	6	299500.609	291368.212		ug/L	
L	Li	6	296896.930	289860.701		ug/L	
⌈	Be	9	0.667	2.667	-0.006	ug/L	69.058
|	B	11	10154.483	166.337	28.792	ug/L	6.330
|	Al	27	15941.452	1170.101	3.609	ug/L	11.153
|>	Sc	45	253141.001	288424.420		ug/L	
|	V r	51	-695.006	-914.216	0.015	ug/L	2066.530
|	V u	51	133824.858	82527.835	8.851	ug/L	5.141
|	Cr r	52	10861.444	8490.770	0.611	ug/L	10.918
|	Cr	53	46401.385	29093.771	29.986	ug/L	5.491
|	Mn	55	38511.014	541.691	4.151	ug/L	4.840
|	Co	59	178.337	56.667	0.020	ug/L	24.394
|	Ni r	60	762.712	62.668	0.531	ug/L	8.568
|	Ni	62	69.001	79.335	-0.003	ug/L	2572.219
|	Cu r	63	1874.581	187.338	0.627	ug/L	2.582
L	Cu	65	826.386	104.668	0.588	ug/L	3.774
⌈	Zn r	66	355.012	221.005	0.207	ug/L	12.703
|	Zn	67	3048.968	1722.879	10.549	ug/L	1.738
|	Zn	68	1229.444	293.009	1.734	ug/L	4.636
|>	Ge	72	73018.664	81751.619		ug/L	
|	As r	75	188.935	-6.938	0.197	ug/L	27.769
|	As u	75	9887.453	4749.848	6.002	ug/L	6.102
|	Se r	82	-4.629	-6.841	0.013	ug/L	597.637
|	Se	77	3139.567	1496.171	22.369	ug/L	6.531
L	Sr	88	8505062.637	140.003	694.114	ug/L	5.522
⌈	Ag r	107	24.000	40.667	-0.003	ug/L	47.669
|	Ag	109	24.334	41.001	-0.003	ug/L	11.897
|	Cd r	111	112.249	138.023	-0.012	ug/L	118.230
|	Cd	106	-2073.754	-1698.819	-4.304	ug/L	11.434
|	Cd	108	-2139.471	-1805.708	-5.346	ug/L	9.298
|	Cd	114	18.455	18.484	0.000	ug/L	145.385
|	Cd u	111	10.667	11.667	-0.000	ug/L	11778.195
|>	In	115	142813.527	154619.939		ug/L	
|	Sb r	123	136.137	41.122	0.031	ug/L	15.808
L	Sb	121	146.670	48.334	0.024	ug/L	25.681

⌈	Sn	118	157.003	168.337	-0.000	ug/L	873.194
|	Sn r	120	209.338	228.006	-0.001	ug/L	574.844
|	Ba r	137	93324.821	38.334	47.834	ug/L	7.200
|	Ba	135	54381.517	18.334	48.427	ug/L	8.326
|>	Tb	159	170860.974	181319.786		ug/L	
|	Tl r	205	278.341	605.030	-0.028	ug/L	4.973
|	Tl	203	129.669	251.340	-0.025	ug/L	10.452
|	U	238	23188.816	58.334	1.219	ug/L	5.250
⌊	Pb	208	895.696	1051.372	-0.007	ug/L	88.849
⌈	Na	23	26758847.106	21235.155	5.741	mg/L	5.406
|	Mg	24	10634492.681	585.362	3.231	mg/L	5.651
|	K	39	6342169.037	523798.486	0.729	mg/L	5.075
|	Ca	44	3229902.050	22549.288	14.363	mg/L	5.948
|	Fe	54	25464.133	25597.925	0.006	mg/L	24.623
⌊>	Sc-1	45	253141.001	288424.420		ug/L	
	Kr	83	149.003	173.337		ug/L	
	Cl	35	28952570.917	30039050.899		mg/L	
	C	12	315516.209	302795.885		mg/L	
	Y	89	140514.697	154072.595		ug/L	
⌈	Br	79	2605.138	2021.619	3.865	ug/L	40.647
|	Br	81	13511.663	14369.888	3.163	ug/L	58.593
⌊>	Ge-1	72	73018.664	81751.619		ug/L	
	Ru	99	2.333	1.333		ug/L	
	Pd	105	1812.565	1525.834		ug/L	
	Ho	165	166378.787	176668.743		ug/L	
	Th	232	77.668	211.005	-0.008	ug/L	7.550
⌈	Mo	95	1035.080	94.668	0.452	ug/L	9.911
|	Mo	97	633.032	57.334	0.439	ug/L	7.455
|	Mo r	98	1666.422	142.338	0.454	ug/L	10.267
|	Rh	103	233.339	20.000		ug/L	
⌊>	In-1	115	142813.527	154619.939		ug/L	
	Ti	47	432.683	293.675		ug/L	
	Li	7	32104.550	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-~~17~~ 16

RC 2.22.12

Sample Description:

Autosampler Position: 25

Sample Date/Time: Friday, February 10, 2012 11:28:05

Dataset File: C:\Elandata\DataSet\EL120210\1202003-17.031

Optimization File: C:\Elandata\Optimize\epa.dac

Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth

Calibration File: C:\Elandata\System\EL120210.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.333	2.667	-0.004	ug/L	38.817
|>	Li u	6	306356.146	291368.212		ug/L	
⌊	Li	6	303587.316	289860.701		ug/L	
⌈	Be	9	1.333	2.667	-0.003	ug/L	54.316
|	B	11	10862.112	166.337	30.273	ug/L	4.247
|	Al	27	11777.172	1170.101	2.550	ug/L	8.593
|>	Sc	45	257754.477	288424.420		ug/L	
|	V r	51	-293.121	-914.216	0.077	ug/L	69.368
|	V u	51	131696.101	82527.835	8.206	ug/L	3.135
|	Cr r	52	10774.982	8490.770	0.561	ug/L	4.058
|	Cr	53	45953.324	29093.771	28.167	ug/L	4.190
|	Mn	55	45464.139	541.691	4.820	ug/L	2.238
|	Co	59	175.670	56.667	0.019	ug/L	6.139
|	Ni r	60	740.043	62.668	0.504	ug/L	5.560
|	Ni	62	77.334	79.335	0.033	ug/L	122.434
|	Cu r	63	1671.865	187.338	0.541	ug/L	0.447
⌊	Cu	65	759.379	104.668	0.523	ug/L	6.540
⌈	Zn r	66	332.010	221.005	0.171	ug/L	9.634
|	Zn	67	2934.590	1722.879	9.494	ug/L	10.069
|	Zn	68	1260.116	293.009	1.762	ug/L	6.781
|>	Ge	72	73929.311	81751.619		ug/L	
|	As r	75	-64.722	-6.938	-0.058	ug/L	416.373
|	As u	75	9822.032	4749.848	5.802	ug/L	2.427
|	Se r	82	10.667	-6.841	0.151	ug/L	220.943
|	Se	77	3055.831	1496.171	20.862	ug/L	3.790
⌊	Sr	88	9239187.831	140.003	744.599	ug/L	1.634
⌈	Ag r	107	40.334	40.667	0.000	ug/L	145.003
|	Ag	109	25.334	41.001	-0.003	ug/L	23.867
|	Cd r	111	108.249	138.023	-0.016	ug/L	24.942
|	Cd	106	-2185.607	-1698.819	-4.965	ug/L	12.012
|	Cd	108	-2247.033	-1805.708	-6.163	ug/L	13.205
|	Cd	114	14.555	18.484	-0.001	ug/L	187.221
|	Cd u	111	8.000	11.667	-0.002	ug/L	89.354
|>	In	115	145146.869	154619.939		ug/L	
|	Sb r	123	133.979	41.122	0.029	ug/L	15.323
⌊	Sb	121	153.003	48.334	0.025	ug/L	17.745

⌈	Sn	118	116.002	168.337	-0.012	ug/L	24.916
|	Sn r	120	161.003	228.006	-0.011	ug/L	40.612
|	Ba r	137	98715.132	38.334	49.513	ug/L	3.077
|	Ba	135	56804.259	18.334	49.489	ug/L	3.496
|>	Tb	159	174450.612	181319.786		ug/L	
|	Tl r	205	264.007	605.030	-0.030	ug/L	1.666
|	Tl	203	109.669	251.340	-0.030	ug/L	5.942
|	U	238	22631.158	58.334	1.164	ug/L	4.672
⌊	Pb	208	563.014	1051.372	-0.033	ug/L	10.068
⌈	Na	23	27880231.251	21235.155	5.874	mg/L	0.956
|	Mg	24	10425531.570	585.362	3.111	mg/L	2.225
|	K	39	6624604.571	523798.486	0.749	mg/L	3.300
|	Ca	44	3225462.838	22549.288	14.083	mg/L	2.701
|	Fe	54	24614.089	25597.925	0.003	mg/L	26.497
⌊>	Sc-1	45	257754.477	288424.420		ug/L	
	Kr	83	153.336	173.337		ug/L	
	Cl	35	27919106.465	30039050.899		mg/L	
	C	12	322050.271	302795.885		mg/L	
	Y	89	142735.160	154072.595		ug/L	
⌈	Br	79	2026.287	2021.619	0.945	ug/L	29.007
|	Br	81	13027.821	14369.888	0.150	ug/L	380.454
⌊>	Ge-1	72	73929.311	81751.619		ug/L	
	Ru	99	2.667	1.333		ug/L	
	Pd	105	1905.588	1525.834		ug/L	
	Ho	165	170121.443	176668.743		ug/L	
	Th	232	70.334	211.005	-0.008	ug/L	2.873
⌈	Mo	95	925.065	94.668	0.392	ug/L	8.034
|	Mo	97	558.026	57.334	0.375	ug/L	3.180
|	Mo r	98	1500.203	142.338	0.397	ug/L	5.385
|	Rh	103	234.673	20.000		ug/L	
⌊>	In-1	115	145146.869	154619.939		ug/L	
	Ti	47	401.348	293.675		ug/L	
	Li	7	34140.937	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: ~~BB20803-MS1~~

1202003 -17 RC 2.27.12

Sample Description:
Autosampler Position: 26
Sample Date/Time: Friday, February 10, 2012 11:33:21
Dataset File: C:\Elandata\DataSet\EL120210\BB20803-MS1.032
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.333	2.667	-0.004	ug/L	164.257
|>	Li u	6	300948.305	291368.212		ug/L	
L	Li	6	297702.558	289860.701		ug/L	
⌈	Be	9	1.333	2.667	-0.003	ug/L	217.313
|	B	11	10662.691	166.337	30.185	ug/L	22.221
|	Al	27	5089.091	1170.101	0.980	ug/L	20.478
|>	Sc	45	254364.917	288424.420		ug/L	
|	V r	51	-1730.841	-914.216	-0.137	ug/L	232.430
|	V u	51	148564.546	82527.835	10.900	ug/L	20.286
|	Cr r	52	11801.183	8490.770	0.772	ug/L	20.286
|	Cr	53	52034.582	29093.771	37.821	ug/L	21.798
|	Mn	55	629786.909	541.691	68.500	ug/L	19.474
|	Co	59	173.337	56.667	0.019	ug/L	24.570
|	Ni r	60	797.717	62.668	0.555	ug/L	19.400
|	Ni	62	85.335	79.335	0.079	ug/L	19.236
|	Cu r	63	1482.826	187.338	0.481	ug/L	16.436
L	Cu	65	580.028	104.668	0.389	ug/L	19.241
⌈	Zn r	66	837.388	221.005	0.840	ug/L	16.924
|	Zn	67	4116.814	1722.879	17.995	ug/L	15.116
|	Zn	68	4296.930	293.009	7.232	ug/L	18.623
|>	Ge	72	73106.528	81751.619		ug/L	
|	As r	75	320.505	-6.938	0.330	ug/L	52.056
|	As u	75	11551.863	4749.848	7.766	ug/L	20.523
|	Se r	82	37.421	-6.841	0.392	ug/L	8.762
|	Se	77	3679.206	1496.171	29.039	ug/L	21.982
L	Sr	88	6264377.240	140.003	511.365	ug/L	20.536
⌈	Ag r	107	23.667	40.667	-0.003	ug/L	71.292
|	Ag	109	19.000	41.001	-0.004	ug/L	4.649
|	Cd r	111	100.921	138.023	-0.019	ug/L	4.016
|	Cd	106	-1850.772	-1698.819	-2.694	ug/L	13.834
|	Cd	108	-1920.438	-1805.708	-3.264	ug/L	14.637
|	Cd	114	7.293	18.484	-0.003	ug/L	18.153
|	Cd u	111	4.000	11.667	-0.005	ug/L	25.859
|>	In	115	140222.738	154619.939		ug/L	
|	Sb r	123	61.147	41.122	0.008	ug/L	64.103
L	Sb	121	42.667	48.334	-0.000	ug/L	1068.873

	Sn	118	113.335	168.337	**-0.011**	ug/L	40.754
	Sn r	120	152.670	228.006	**-0.011**	ug/L	21.243
	Ba r	137	430695.795	38.334	**225.864**	ug/L	19.575
	Ba	135	249116.974	18.334	**226.932**	ug/L	17.730
>	Tb	159	166540.658	181319.786		ug/L	
	Tl r	205	237.339	605.030	**-0.032**	ug/L	3.593
	Tl	203	85.001	251.340	**-0.035**	ug/L	7.796
	U	238	2406.078	58.334	**0.127**	ug/L	20.031
	Pb	208	529.679	1051.372	**-0.033**	ug/L	11.642
	Na	23	54123740.968	21235.155	**11.586**	mg/L	19.262
	Mg	24	12925049.560	585.362	**3.917**	mg/L	19.202
	K	39	6292834.584	523798.486	**0.721**	mg/L	19.562
	Ca	44	3270062.071	22549.288	**14.505**	mg/L	19.558
	Fe	54	53893.568	25597.925	**0.058**	mg/L	29.680
>	Sc-1	45	254364.917	288424.420		ug/L	
	Kr	83	143.336	173.337		ug/L	
	Cl	35	31507693.899	30039050.899		mg/L	
	C	12	326804.518	302795.885		mg/L	
	Y	89	137719.761	154072.595		ug/L	
	Br	79	9926.225	2021.619	**39.167**	ug/L	15.622
	Br	81	20938.038	14369.888	**37.718**	ug/L	13.805
>	Ge-1	72	73106.528	81751.619		ug/L	
	Ru	99	2.000	1.333		ug/L	
	Pd	105	1634.190	1525.834		ug/L	
	Ho	165	163235.760	176668.743		ug/L	
	Th	232	67.668	211.005	**-0.008**	ug/L	11.598
	Mo	95	205.005	94.668	**0.058**	ug/L	28.922
	Mo	97	146.670	57.334	**0.073**	ug/L	24.749
	Mo r	98	340.753	142.338	**0.064**	ug/L	25.926
	Rh	103	167.670	20.000		ug/L	
>	In-1	115	140222.738	154619.939		ug/L	
	Ti	47	461.685	293.675		ug/L	
	Li	7	40021.553	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
Ba r 137 Upper, S, EEE	Ba r	137	Sample greater than CLM3
Na 23 Upper, S, EEE	Na	23	Sample greater than CLM3
Ca 44 Upper, S, EEE	Ca	44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Friday, February 10, 2012 11:38:33
Dataset File: C:\Elandata\DataSet\EL120210\QC Std 2.033
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	16577.677	2.667	49.277	ug/L	2.607
|>	Li u	6	283720.238	291368.212		ug/L	
⌊	Li	6	282260.664	289860.701		ug/L	
⌈	Be	9	16577.677	2.667	55.015	ug/L	1.953
|	B	11	19028.031	166.337	53.771	ug/L	2.391
|	Al	27	214465.783	1170.101	51.141	ug/L	1.955
|>	Sc	45	255749.531	288424.420		ug/L	
|	V r	51	357312.026	-914.216	52.661	ug/L	2.316
|	V u	51	457443.409	82527.835	54.848	ug/L	2.437
|	Cr r	52	303229.746	8490.770	52.501	ug/L	2.579
|	Cr	53	67838.564	29093.771	59.817	ug/L	4.236
|	Mn	55	469067.080	541.691	50.630	ug/L	3.436
|	Co	59	331666.474	56.667	50.421	ug/L	2.716
|	Ni r	60	68216.500	62.668	50.614	ug/L	2.378
|	Ni	62	9880.775	79.335	50.576	ug/L	2.540
|	Cu r	63	142212.899	187.338	51.536	ug/L	3.349
⌊	Cu	65	65009.548	104.668	51.409	ug/L	2.416
⌈	Zn r	66	39141.054	221.005	51.248	ug/L	1.559
|	Zn	67	9557.365	1722.879	56.169	ug/L	4.148
|	Zn	68	29150.089	293.009	51.880	ug/L	2.261
|>	Ge	72	72871.983	81751.619		ug/L	
|	As r	75	50808.793	-6.938	51.516	ug/L	1.956
|	As u	75	53727.858	4749.848	52.715	ug/L	0.873
|	Se r	82	5648.892	-6.841	51.108	ug/L	3.836
|	Se	77	5935.918	1496.171	57.199	ug/L	3.872
⌊	Sr	88	633290.408	140.003	51.776	ug/L	2.185
⌈	Ag r	107	255285.189	40.667	51.579	ug/L	3.419
|	Ag	109	240665.038	41.001	51.197	ug/L	4.159
|	Cd r	111	61343.629	138.023	51.472	ug/L	3.080
|	Cd	106	4134.311	-1698.819	51.453	ug/L	5.069
|	Cd	108	2638.132	-1805.708	51.155	ug/L	2.722
|	Cd	114	143271.362	18.484	51.078	ug/L	2.598
|	Cd u	111	61506.934	11.667	51.474	ug/L	3.003
|>	In	115	132591.052	154619.939		ug/L	
|	Sb r	123	152192.979	41.122	51.277	ug/L	4.616
⌊	Sb	121	201129.367	48.334	51.211	ug/L	4.202

⌈	Sn	118	185195.075	168.337	**50.558**	ug/L	1.468
|	Sn r	120	253950.135	228.006	**50.683**	ug/L	2.722
|	Ba r	137	93170.472	38.334	**50.743**	ug/L	4.344
|	Ba	135	53737.974	18.334	**50.832**	ug/L	3.487
|>	Tb	159	160676.918	181319.786		ug/L	
|	Tl r	205	497948.368	605.030	**51.601**	ug/L	2.166
|	Tl	203	206191.944	251.340	**51.128**	ug/L	2.753
|	U	238	939317.114	58.334	**52.588**	ug/L	1.664
⌊	Pb	208	673500.854	1051.372	**53.094**	ug/L	2.517
⌈	Na	23	24617398.683	21235.155	**5.229**	mg/L	3.202
|	Mg	24	17369898.773	585.362	**5.225**	mg/L	2.052
|	K	39	42718421.606	523798.486	**5.183**	mg/L	2.695
|	Ca	44	1045243.771	22549.288	**4.542**	mg/L	3.639
|	Fe	54	2956934.839	25597.925	**5.342**	mg/L	3.430
⌊>	Sc-1	45	255749.531	288424.420		ug/L	
	Kr	83	155.670	173.337		ug/L	
	Cl	35	28929108.724	30039050.899		mg/L	
	C	12	334587.929	302795.885		mg/L	
	Y	89	134912.886	154072.595		ug/L	
⌈	Br	79	13049.190	2021.619	**54.381**	ug/L	1.299
|	Br	81	24375.156	14369.888	**54.051**	ug/L	3.061
⌊>	Ge-1	72	72871.983	81751.619		ug/L	
	Ru	99	14.333	1.333		ug/L	
	Pd	105	1459.820	1525.834		ug/L	
	Ho	165	156474.610	176668.743		ug/L	
	Th	232	869189.890	211.005	**50.358**	ug/L	1.359
⌈	Mo	95	97867.971	94.668	**50.156**	ug/L	3.831
|	Mo	97	61889.605	57.334	**50.350**	ug/L	3.403
|	Mo r	98	158484.473	142.338	**50.441**	ug/L	4.424
|	Rh	103	41.001	20.000		ug/L	
⌊>	In-1	115	132591.052	154619.939		ug/L	
	Ti	47	243.673	293.675		ug/L	
	Li	7	17997.210	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
QC Std 2	Be	9	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Cr	53	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Zn	67	CCV (CLC) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 4

Sample Description:
Autosampler Position: 1
Sample Date/Time: Friday, February 10, 2012 11:43:46
Dataset File: C:\Elandata\DataSet\EL120210\QC Std 4.034
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	2.667	2.667	0.000	ug/L	2759.797
|>	Li u	6	288682.675	291368.212		ug/L	
⌊	Li	6	287184.162	289860.701		ug/L	
⌈	Be	9	2.667	2.667	0.001	ug/L	191.738
|	B	11	254.674	166.337	0.305	ug/L	42.905
|	Al	27	911.397	1170.101	-0.030	ug/L	52.839
|>	Sc	45	255624.465	288424.420		ug/L	
|	V r	51	511.485	-914.216	0.194	ug/L	132.826
|	V u	51	97502.504	82527.835	3.479	ug/L	14.934
|	Cr r	52	8128.375	8490.770	0.107	ug/L	34.616
|	Cr	53	33308.074	29093.771	10.709	ug/L	22.867
|	Mn	55	447.017	541.691	-0.004	ug/L	75.073
|	Co	59	50.667	56.667	0.000	ug/L	586.767
|	Ni r	60	45.001	62.668	-0.008	ug/L	113.890
|	Ni	62	80.001	79.335	0.050	ug/L	62.410
|	Cu r	63	151.003	187.338	-0.005	ug/L	83.083
⌊	Cu	65	84.335	104.668	-0.007	ug/L	188.291
⌈	Zn r	66	161.003	221.005	-0.052	ug/L	51.724
|	Zn	67	2815.544	1722.879	8.483	ug/L	5.245
|	Zn	68	343.344	293.009	0.133	ug/L	16.427
|>	Ge	72	74666.409	81751.619		ug/L	
|	As r	75	-136.802	-6.938	-0.129	ug/L	22.114
|	As u	75	4917.290	4749.848	0.601	ug/L	42.559
|	Se r	82	-11.774	-6.841	-0.050	ug/L	513.429
|	Se	77	1560.910	1496.171	2.351	ug/L	40.049
⌊	Sr	88	290.675	140.003	0.013	ug/L	12.622
⌈	Ag r	107	61.334	40.667	0.005	ug/L	106.982
|	Ag	109	53.334	41.001	0.003	ug/L	192.387
|	Cd r	111	127.334	138.023	0.001	ug/L	201.211
|	Cd	106	-1531.316	-1698.819	0.156	ug/L	272.231
|	Cd	108	-1633.188	-1805.708	0.157	ug/L	376.954
|	Cd	114	18.571	18.484	0.001	ug/L	450.228
|	Cd u	111	9.333	11.667	-0.001	ug/L	172.785
|>	In	115	141066.646	154619.939		ug/L	
|	Sb r	123	49.164	41.122	0.004	ug/L	43.080
⌊	Sb	121	51.667	48.334	0.002	ug/L	107.439

	Sn	118	152.670	168.337	-0.000	ug/L	5665.977
	Sn r	120	196.671	228.006	-0.002	ug/L	434.422
	Ba r	137	41.334	38.334	0.003	ug/L	151.142
	Ba	135	18.334	18.334	0.001	ug/L	246.299
>	Tb	159	165762.153	181319.786		ug/L	
	Tl r	205	1710.891	605.030	0.117	ug/L	56.999
	Tl	203	679.706	251.340	0.109	ug/L	54.426
	U	238	125.669	58.334	0.004	ug/L	26.790
	Pb	208	457.010	1051.372	-0.039	ug/L	12.542
	Na	23	27411.700	21235.155	0.002	mg/L	3.520
	Mg	24	1736.881	585.362	0.000	mg/L	9.617
	K	39	497908.546	523798.486	0.004	mg/L	7.637
	Ca	44	12064.575	22549.288	-0.035	mg/L	2.422
	Fe	54	22065.723	25597.925	-0.001	mg/L	38.192
>	Sc-1	45	255624.465	288424.420		ug/L	
	Kr	83	165.670	173.337		ug/L	
	Cl	35	28410233.317	30039050.899		mg/L	
	C	12	285109.877	302795.885		mg/L	
	Y	89	140467.679	154072.595		ug/L	
	Br	79	2294.032	2021.619	2.115	ug/L	25.310
	Br	81	13473.263	14369.888	1.589	ug/L	90.028
>	Ge-1	72	74666.409	81751.619		ug/L	
	Ru	99	1.333	1.333		ug/L	
	Pd	105	1380.804	1525.834		ug/L	
	Ho	165	163100.010	176668.743		ug/L	
	Th	232	805.385	211.005	0.034	ug/L	29.343
	Mo	95	143.003	94.668	0.027	ug/L	65.123
	Mo	97	105.335	57.334	0.041	ug/L	55.663
	Mo r	98	220.154	142.338	0.027	ug/L	41.405
	Rh	103	5.000	20.000		ug/L	
>	In-1	115	141066.646	154619.939		ug/L	
	Ti	47	179.004	293.675		ug/L	
	Li	7	18477.350	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
QC Std 4	V u	51	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cr	53	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Zn	67	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	As u	75	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br	79	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br	81	IBL (LCB) is out of limits (+/- 0.400ug/L)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-18

Sample Description:

Autosampler Position: 27

Sample Date/Time: Friday, February 10, 2012 11:49:02

Dataset File: C:\Elandata\DataSet\EL120210\1202003-18.035

Optimization File: C:\Elandata\Optimize\epa.dac

Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth

Calibration File: C:\Elandata\System\EL120210.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	679.371	2.667	1.948	ug/L	15.558
|>	Li u	6	293281.505	291368.212		ug/L	
⌊	Li	6	288158.692	289860.701		ug/L	
⌈	Be	9	679.371	2.667	2.254	ug/L	16.795
|	B	11	18102.368	166.337	51.285	ug/L	15.639
|	Al	27	336341.606	1170.101	80.596	ug/L	16.450
|>	Sc	45	255547.067	288424.420		ug/L	
|	V r	51	136083.656	-914.216	20.186	ug/L	14.082
|	V u	51	247294.886	82527.835	24.931	ug/L	14.701
|	Cr r	52	123528.352	8490.770	20.656	ug/L	15.264
|	Cr	53	51427.283	29093.771	36.607	ug/L	17.014
|	Mn	55	808936.083	541.691	87.609	ug/L	16.225
|	Co	59	132999.832	56.667	20.273	ug/L	15.391
|	Ni r	60	27519.307	62.668	20.454	ug/L	15.600
|	Ni	62	3957.737	79.335	20.103	ug/L	16.323
|	Cu r	63	56491.247	187.338	20.491	ug/L	14.624
⌊	Cu	65	26180.479	104.668	20.716	ug/L	14.193
⌈	Zn r	66	16497.694	221.005	21.518	ug/L	15.465
|	Zn	67	7026.623	1722.879	38.552	ug/L	12.613
|	Zn	68	16564.181	293.009	29.370	ug/L	15.803
|>	Ge	72	72820.939	81751.619		ug/L	
|	As r	75	20945.021	-6.938	21.303	ug/L	14.338
|	As u	75	26580.786	4749.848	23.883	ug/L	15.641
|	Se r	82	2185.617	-6.841	19.858	ug/L	13.310
|	Se	77	3758.752	1496.171	30.262	ug/L	18.165
⌊	Sr	88	6508555.922	140.003	533.835	ug/L	15.048
⌈	Ag r	107	10451.975	40.667	1.996	ug/L	14.390
|	Ag	109	9951.952	41.001	2.001	ug/L	13.497
|	Cd r	111	2641.255	138.023	2.007	ug/L	12.208
|	Cd	106	-1750.768	-1698.819	-1.890	ug/L	45.484
|	Cd	108	-1793.670	-1805.708	-1.890	ug/L	52.750
|	Cd	114	5923.570	18.484	1.998	ug/L	15.920
|	Cd u	111	2636.483	11.667	2.085	ug/L	12.646
|>	In	115	139603.271	154619.939		ug/L	
|	Sb r	123	63650.954	41.122	20.327	ug/L	14.180
⌊	Sb	121	84726.175	48.334	20.451	ug/L	13.953

⌈	Sn	118	74740.849	168.337	**19.553**	ug/L	15.853
|	Sn r	120	101040.852	228.006	**19.322**	ug/L	16.633
|	Ba r	137	569871.915	38.334	**297.797**	ug/L	15.419
|	Ba	135	335805.900	18.334	**304.778**	ug/L	15.878
|>	Tb	159	167558.006	181319.786		ug/L	
|	Tl r	205	204034.158	605.030	**20.250**	ug/L	14.945
|	Tl	203	84635.526	251.340	**20.098**	ug/L	14.677
|	U	238	385084.332	58.334	**20.682**	ug/L	14.571
⌊	Pb	208	272762.691	1051.372	**20.584**	ug/L	15.585
⌈	Na	23	54054876.747	21235.155	**11.518**	mg/L	15.167
|	Mg	24	13842142.466	585.362	**4.176**	mg/L	15.525
|	K	39	12936482.142	523798.486	**1.534**	mg/L	15.814
|	Ca	44	3250132.509	22549.288	**14.353**	mg/L	16.665
|	Fe	54	144946.813	25597.925	**0.223**	mg/L	16.653
⌊>	Sc-1	45	255547.067	288424.420		ug/L	
	Kr	83	164.670	173.337		ug/L	
	Cl	35	30375417.522	30039050.899		mg/L	
	C	12	310617.602	302795.885		mg/L	
	Y	89	139367.909	154072.595		ug/L	
⌈	Br	79	9869.782	2021.619	**39.117**	ug/L	11.952
|	Br	81	21221.796	14369.888	**39.488**	ug/L	13.788
⌊>	Ge-1	72	72820.939	81751.619		ug/L	
	Ru	99	7.000	1.333		ug/L	
	Pd	105	1730.879	1525.834		ug/L	
	Ho	165	162160.386	176668.743		ug/L	
	Th	232	679.704	211.005	**0.027**	ug/L	30.627
⌈	Mo	95	40186.126	94.668	**19.505**	ug/L	14.899
|	Mo	97	25349.857	57.334	**19.536**	ug/L	13.603
|	Mo r	98	64830.719	142.338	**19.543**	ug/L	14.005
|	Rh	103	175.670	20.000		ug/L	
⌊>	In-1	115	139603.271	154619.939		ug/L	
	Ti	47	10170.882	293.675		ug/L	
	Li	7	63166.615	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
Ba r 137 Upper, S, EEE	Ba r	137	Sample greater than CLM3
Na 23 Upper, S, EEE	Na	23	Sample greater than CLM3
Ca 44 Upper, S, EEE	Ca	44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-19 18

Sample Description:

Autosampler Position: 28

RC 2.27.12

Sample Date/Time: Friday, February 10, 2012 11:54:20

Dataset File: C:\Elandata\DataSet\EL120210\1202003-19.036

Optimization File: C:\Elandata\Optimize\epa.dac

Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth

Calibration File: C:\Elandata\System\EL120210.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.333	2.667	-0.004	ug/L	41.439
|>	Li u	6	301094.191	291368.212		ug/L	
⌊	Li	6	299534.757	289860.701		ug/L	
⌈	Be	9	1.333	2.667	-0.004	ug/L	54.783
|	B	11	459.685	166.337	0.864	ug/L	21.404
|	Al	27	2675.159	1170.101	0.380	ug/L	3.200
|>	Sc	45	260904.998	288424.420		ug/L	
|	V r	51	-813.087	-914.216	0.002	ug/L	10451.336
|	V u	51	112174.116	82527.835	5.249	ug/L	1.774
|	Cr r	52	9912.149	8490.770	0.388	ug/L	3.484
|	Cr	53	38738.354	29093.771	17.319	ug/L	1.992
|	Mn	55	693.038	541.691	0.022	ug/L	23.313
|	Co	59	41.667	56.667	-0.001	ug/L	61.668
|	Ni r	60	71.001	62.668	0.010	ug/L	48.224
|	Ni	62	64.001	79.335	-0.039	ug/L	85.298
|	Cu r	63	372.346	187.338	0.072	ug/L	1.564
⌊	Cu	65	185.671	104.668	0.071	ug/L	11.081
⌈	Zn r	66	280.675	221.005	0.094	ug/L	13.777
|	Zn	67	2864.895	1722.879	8.408	ug/L	1.271
|	Zn	68	466.685	293.009	0.332	ug/L	2.904
|>	Ge	72	76275.764	81751.619		ug/L	
|	As r	75	-0.965	-6.938	0.006	ug/L	2322.057
|	As u	75	6636.595	4749.848	2.244	ug/L	1.201
|	Se r	82	-9.751	-6.841	-0.029	ug/L	422.156
|	Se	77	2126.084	1496.171	8.669	ug/L	1.675
⌊	Sr	88	605.363	140.003	0.037	ug/L	10.583
⌈	Ag r	107	26.667	40.667	-0.002	ug/L	35.950
|	Ag	109	18.667	41.001	-0.004	ug/L	10.362
|	Cd r	111	110.007	138.023	-0.015	ug/L	34.233
|	Cd	106	-1616.352	-1698.819	-0.239	ug/L	468.085
|	Cd	108	-1700.016	-1805.708	-0.135	ug/L	1081.698
|	Cd	114	9.939	18.484	-0.002	ug/L	62.253
|	Cd u	111	4.333	11.667	-0.005	ug/L	64.537
|>	In	115	144606.823	154619.939		ug/L	
|	Sb r	123	37.873	41.122	-0.000	ug/L	729.235
⌊	Sb	121	48.001	48.334	0.001	ug/L	351.911

⌈	Sn	118	188.671	168.337	0.007	ug/L	21.787
|	Sn r	120	259.674	228.006	0.008	ug/L	13.538
|	Ba r	137	96.668	38.334	0.031	ug/L	16.776
|	Ba	135	54.001	18.334	0.032	ug/L	9.631
|>	Tb	159	172109.964	181319.786		ug/L	
|	Tl r	205	1210.445	605.030	0.062	ug/L	53.580
|	Tl	203	502.023	251.340	0.061	ug/L	73.284
|	U	238	76.001	58.334	0.001	ug/L	28.071
⌊	Pb	208	432.009	1051.372	-0.042	ug/L	4.542
⌈	Na	23	64008.527	21235.155	0.009	mg/L	2.436
|	Mg	24	4060.112	585.362	0.001	mg/L	2.565
|	K	39	594612.153	523798.486	0.015	mg/L	2.331
|	Ca	44	13431.852	22549.288	-0.030	mg/L	2.363
|	Fe	54	23455.022	25597.925	0.001	mg/L	178.138
⌊>	Sc-1	45	260904.998	288424.420		ug/L	
	Kr	83	163.003	173.337		ug/L	
	Cl	35	27965579.653	30039050.899		mg/L	
	C	12	318459.269	302795.885		mg/L	
	Y	89	143975.170	154072.595		ug/L	
⌈	Br	79	1696.872	2021.619	-0.870	ug/L	106.851
|	Br	81	12539.005	14369.888	-3.867	ug/L	40.679
⌊>	Ge-1	72	76275.764	81751.619		ug/L	
	Ru	99	1.000	1.333		ug/L	
	Pd	105	1437.482	1525.834		ug/L	
	Ho	165	170042.081	176668.743		ug/L	
	Th	232	154.670	211.005	-0.003	ug/L	22.195
⌈	Mo	95	122.669	94.668	0.016	ug/L	67.832
|	Mo	97	78.335	57.334	0.018	ug/L	28.496
|	Mo r	98	175.226	142.338	0.012	ug/L	11.792
|	Rh	103	3.667	20.000		ug/L	
⌊>	In-1	115	144606.823	154619.939		ug/L	
	Ti	47	203.005	293.675		ug/L	
	Li	7	19228.530	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-20 19 RC 2.27.12

Sample Description:

Autosampler Position: 29

Sample Date/Time: Friday, February 10, 2012 11:59:37

Dataset File: C:\Elandata\DataSet\EL120210\1202003-20.037

Optimization File: C:\Elandata\Optimize\epa.dac

Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth

Calibration File: C:\Elandata\System\EL120210.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	2.000	2.667	-0.002	ug/L	151.163
|>	Li u	6	293503.096	291368.212		ug/L	
⌊	Li	6	290431.072	289860.701		ug/L	
⌈	Be	9	2.000	2.667	-0.001	ug/L	276.492
|	B	11	9477.269	166.337	26.564	ug/L	3.606
|	Al	27	3811.650	1170.101	0.665	ug/L	4.504
|>	Sc	45	255734.035	288424.420		ug/L	
|	V r	51	-39.620	-914.216	0.113	ug/L	264.726
|	V u	51	116090.265	82527.835	6.125	ug/L	0.927
|	Cr r	52	9780.647	8490.770	0.400	ug/L	10.147
|	Cr	53	40221.617	29093.771	20.520	ug/L	1.770
|	Mn	55	585085.198	541.691	63.142	ug/L	6.434
|	Co	59	165.003	56.667	0.017	ug/L	4.985
|	Ni r	60	684.371	62.668	0.467	ug/L	9.024
|	Ni	62	77.334	79.335	0.036	ug/L	66.497
|	Cu r	63	977.072	187.338	0.294	ug/L	7.915
⌊	Cu	65	357.012	104.668	0.209	ug/L	11.651
⌈	Zn r	66	658.368	221.005	0.610	ug/L	4.367
|	Zn	67	3822.655	1722.879	16.091	ug/L	4.718
|	Zn	68	3974.071	293.009	6.688	ug/L	8.367
|>	Ge	72	72638.412	81751.619		ug/L	
|	As r	75	490.362	-6.938	0.503	ug/L	104.525
|	As u	75	8283.208	4749.848	4.341	ug/L	2.731
|	Se r	82	-4.371	-6.841	0.015	ug/L	409.534
|	Se	77	2510.252	1496.171	14.721	ug/L	3.405
⌊	Sr	88	5962015.663	140.003	488.905	ug/L	7.433
⌈	Ag r	107	25.000	40.667	-0.002	ug/L	27.165
|	Ag	109	17.334	41.001	-0.004	ug/L	17.888
|	Cd r	111	112.415	138.023	-0.007	ug/L	109.102
|	Cd	106	-1867.807	-1698.819	-3.336	ug/L	13.831
|	Cd	108	-1946.439	-1805.708	-4.249	ug/L	11.656
|	Cd	114	12.099	18.484	-0.001	ug/L	120.539
|	Cd u	111	6.667	11.667	-0.003	ug/L	115.163
|>	In	115	136068.942	154619.939		ug/L	
|	Sb r	123	46.602	41.122	0.003	ug/L	112.284
⌊	Sb	121	33.667	48.334	-0.002	ug/L	36.041

⌈	Sn	118	133.002	168.337	**-0.005**	ug/L	46.840
|	Sn r	120	195.338	228.006	**-0.002**	ug/L	60.609
|	Ba r	137	396482.715	38.334	**212.269**	ug/L	6.637
|	Ba	135	228646.041	18.334	**212.601**	ug/L	7.043
|>	Tb	159	163339.112	181319.786		ug/L	
|	Tl r	205	507.022	605.030	**-0.004**	ug/L	168.162
|	Tl	203	207.338	251.340	**-0.005**	ug/L	76.070
|	U	238	2266.357	58.334	**0.122**	ug/L	5.463
⌊	Pb	208	498.011	1051.372	**-0.035**	ug/L	7.566
⌈	Na	23	50752722.917	21235.155	**10.780**	mg/L	6.420
|	Mg	24	12083065.855	585.362	**3.634**	mg/L	5.315
|	K	39	5837251.085	523798.486	**0.659**	mg/L	5.924
|	Ca	44	3043271.471	22549.288	**13.388**	mg/L	6.728
|	Fe	54	50240.088	25597.925	**0.050**	mg/L	9.745
⌊>	Sc-1	45	255734.035	288424.420		ug/L	
	Kr	83	157.670	173.337		ug/L	
	Cl	35	28758105.438	30039050.899		mg/L	
	C	12	313032.560	302795.885		mg/L	
	Y	89	138343.365	154072.595		ug/L	
⌈	Br	79	8178.434	2021.619	**30.950**	ug/L	5.636
|	Br	81	19121.936	14369.888	**29.794**	ug/L	5.908
⌊>	Ge-1	72	72638.412	81751.619		ug/L	
	Ru	99	1.333	1.333		ug/L	
	Pd	105	1652.194	1525.834		ug/L	
	Ho	165	160657.986	176668.743		ug/L	
	Th	232	143.336	211.005	**-0.004**	ug/L	26.615
⌈	Mo	95	217.005	94.668	**0.067**	ug/L	3.218
|	Mo	97	132.002	57.334	**0.065**	ug/L	19.696
|	Mo r	98	329.938	142.338	**0.063**	ug/L	6.517
|	Rh	103	159.003	20.000		ug/L	
⌊>	In-1	115	136068.942	154619.939		ug/L	
	Ti	47	438.684	293.675		ug/L	
	Li	7	37879.463	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
Ba r 137 Upper, S, EEE	Ba r	137	Sample greater than CLM3
Na 23 Upper, S, EEE	Na	23	Sample greater than CLM3
Ca 44 Upper, S, EEE	Ca	44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-20

Sample Description:
Autosampler Position: 30
Sample Date/Time: Friday, February 10, 2012 12:05:57
Dataset File: C:\Elandata\DataSet\EL120210\1202003-20.038
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	2.000	2.667	-0.002	ug/L	137.716
|>	Li u	6	300468.286	291368.212		ug/L	
L	Li	6	297752.403	289860.701		ug/L	
⌈	Be	9	2.000	2.667	-0.001	ug/L	254.746
|	B	11	5861.959	166.337	16.153	ug/L	2.785
|	Al	27	23559.594	1170.101	5.357	ug/L	1.904
|>	Sc	45	257557.339	288424.420		ug/L	
|	V r	51	-846.995	-914.216	-0.004	ug/L	9180.893
|	V u	51	122946.232	82527.835	6.980	ug/L	7.852
|	Cr r	52	11684.990	8490.770	0.723	ug/L	9.786
|	Cr	53	42561.515	29093.771	23.424	ug/L	3.185
|	Mn	55	586550.071	541.691	62.852	ug/L	2.126
|	Co	59	183.004	56.667	0.020	ug/L	15.488
|	Ni r	60	806.384	62.668	0.553	ug/L	2.512
|	Ni	62	101.668	79.335	0.158	ug/L	52.161
|	Cu r	63	2352.717	187.338	0.787	ug/L	1.558
L	Cu	65	1042.748	104.668	0.746	ug/L	3.251
⌈	Zn r	66	550.359	221.005	0.456	ug/L	5.680
|	Zn	67	3738.279	1722.879	15.088	ug/L	4.027
|	Zn	68	4249.883	293.009	7.067	ug/L	2.998
|>	Ge	72	73795.031	81751.619		ug/L	
|	As r	75	2039.631	-6.938	2.047	ug/L	6.809
|	As u	75	11024.672	4749.848	7.085	ug/L	0.694
|	Se r	82	8.957	-6.841	0.135	ug/L	79.816
|	Se	77	2858.379	1496.171	18.503	ug/L	1.503
L	Sr	88	5285715.369	140.003	426.786	ug/L	3.099
⌈	Ag r	107	27.667	40.667	-0.002	ug/L	67.491
|	Ag	109	19.000	41.001	-0.004	ug/L	31.698
|	Cd r	111	96.469	138.023	-0.021	ug/L	22.398
|	Cd	106	-1845.961	-1698.819	-3.038	ug/L	28.972
|	Cd	108	-1906.290	-1805.708	-3.629	ug/L	29.479
|	Cd	114	8.289	18.484	-0.003	ug/L	46.654
|	Cd u	111	5.333	11.667	-0.004	ug/L	23.145
|>	In	115	136969.625	154619.939		ug/L	
|	Sb r	123	49.486	41.122	0.004	ug/L	42.298
L	Sb	121	47.334	48.334	0.001	ug/L	106.372

⌈	Sn	118	225.339	168.337	**0.020**	ug/L	19.533
|	Sn r	120	327.677	228.006	**0.024**	ug/L	11.847
|	Ba r	137	419787.637	38.334	**224.841**	ug/L	2.910
|	Ba	135	244572.363	18.334	**227.519**	ug/L	3.913
|>	Tb	159	163365.818	181319.786		ug/L	
|	Tl r	205	344.011	605.030	**-0.021**	ug/L	7.800
|	Tl	203	135.003	251.340	**-0.022**	ug/L	15.062
|	U	238	3302.075	58.334	**0.179**	ug/L	2.524
⌊	Pb	208	2033.459	1051.372	**0.084**	ug/L	12.575
⌈	Na	23	31549799.626	21235.155	**6.652**	mg/L	3.293
|	Mg	24	13821848.601	585.362	**4.128**	mg/L	2.775
|	K	39	5096656.616	523798.486	**0.564**	mg/L	2.319
|	Ca	44	2943830.773	22549.288	**12.857**	mg/L	2.847
|	Fe	54	41931.408	25597.925	**0.034**	mg/L	4.862
⌊>	Sc-1	45	257557.339	288424.420		ug/L	
	Kr	83	158.337	173.337		ug/L	
	Cl	35	28999269.703	30039050.899		mg/L	
	C	12	313246.919	302795.885		mg/L	
	Y	89	138323.312	154072.595		ug/L	
⌈	Br	79	4987.333	2021.619	**15.100**	ug/L	1.925
|	Br	81	15943.334	14369.888	**13.721**	ug/L	9.184
⌊>	Ge-1	72	73795.031	81751.619		ug/L	
	Ru	99	1.333	1.333		ug/L	
	Pd	105	1617.186	1525.834		ug/L	
	Ho	165	160504.836	176668.743		ug/L	
	Th	232	98.335	211.005	**-0.007**	ug/L	12.116
⌈	Mo	95	321.010	94.668	**0.118**	ug/L	6.152
|	Mo	97	213.338	57.334	**0.128**	ug/L	15.274
|	Mo r	98	519.765	142.338	**0.121**	ug/L	1.057
|	Rh	103	141.669	20.000		ug/L	
⌊>	In-1	115	136969.625	154619.939		ug/L	
	Ti	47	436.017	293.675		ug/L	
	Li	7	33488.076	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ba r 137 Upper, S, EEE	Ba r 137	Sample greater than CLM3
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-24

Sample Description:
Autosampler Position: 31
Sample Date/Time: Friday, February 10, 2012 12:11:15
Dataset File: C:\Elandata\DataSet\EL120210\1202003-24.039
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	0.667	2.667	-0.006	ug/L	27.139
|>	Li u	6	305384.894	291368.212		ug/L	
⌊	Li	6	302640.230	289860.701		ug/L	
⌈	Be	9	0.667	2.667	-0.006	ug/L	34.264
|	B	11	10684.202	166.337	30.360	ug/L	7.470
|	Al	27	3025.959	1170.101	0.484	ug/L	4.275
|>	Sc	45	253033.013	288424.420		ug/L	
|	V r	51	-656.914	-914.216	0.022	ug/L	318.033
|	V u	51	129472.841	82527.835	8.239	ug/L	6.285
|	Cr r	52	10430.172	8490.770	0.535	ug/L	7.752
|	Cr	53	44917.886	29093.771	27.902	ug/L	5.668
|	Mn	55	39634.250	541.691	4.277	ug/L	2.975
|	Co	59	175.004	56.667	0.019	ug/L	15.220
|	Ni r	60	725.375	62.668	0.503	ug/L	8.209
|	Ni	62	81.001	79.335	0.059	ug/L	92.916
|	Cu r	63	1608.851	187.338	0.530	ug/L	5.609
⌊	Cu	65	704.039	104.668	0.490	ug/L	1.280
⌈	Zn r	66	383.680	221.005	0.242	ug/L	10.515
|	Zn	67	2989.611	1722.879	10.009	ug/L	1.247
|	Zn	68	1262.450	293.009	1.780	ug/L	5.523
|>	Ge	72	73465.923	81751.619		ug/L	
|	As r	75	236.427	-6.938	0.243	ug/L	69.828
|	As u	75	9889.120	4749.848	5.940	ug/L	5.887
|	Se r	82	-1.000	-6.841	0.046	ug/L	196.527
|	Se	77	3085.177	1496.171	21.469	ug/L	7.594
⌊	Sr	88	8992463.893	140.003	729.502	ug/L	4.865
⌈	Ag r	107	25.667	40.667	-0.002	ug/L	37.399
|	Ag	109	16.667	41.001	-0.004	ug/L	15.323
|	Cd r	111	121.544	138.023	-0.006	ug/L	89.133
|	Cd	106	-2138.541	-1698.819	-4.626	ug/L	13.121
|	Cd	108	-2215.253	-1805.708	-5.885	ug/L	14.500
|	Cd	114	14.922	18.484	-0.001	ug/L	162.150
|	Cd u	111	8.333	11.667	-0.002	ug/L	148.976
|>	In	115	144727.420	154619.939		ug/L	
|	Sb r	123	133.894	41.122	0.030	ug/L	22.887
⌊	Sb	121	144.669	48.334	0.023	ug/L	12.455

⌈	Sn	118	102.335	168.337	**-0.015**	ug/L	14.804
|	Sn r	120	136.003	228.006	**-0.015**	ug/L	5.705
|	Ba r	137	95969.719	38.334	**48.079**	ug/L	3.725
|	Ba	135	55563.881	18.334	**48.350**	ug/L	3.555
|>	Tb	159	174680.581	181319.786		ug/L	
|	Tl r	205	299.009	605.030	**-0.027**	ug/L	2.031
|	Tl	203	127.002	251.340	**-0.026**	ug/L	24.790
|	U	238	22195.546	58.334	**1.141**	ug/L	4.564
⌊	Pb	208	525.012	1051.372	**-0.035**	ug/L	7.333
⌈	Na	23	27115027.005	21235.155	**5.823**	mg/L	4.954
|	Mg	24	10121539.690	585.362	**3.078**	mg/L	3.742
|	K	39	6438984.593	523798.486	**0.742**	mg/L	4.895
|	Ca	44	3116264.469	22549.288	**13.866**	mg/L	3.305
|	Fe	54	23192.643	25597.925	**0.001**	mg/L	123.123
⌊>	Sc-1	45	253033.013	288424.420		ug/L	
	Kr	83	153.336	173.337		ug/L	
	Cl	35	28878574.772	30039050.899		mg/L	
	C	12	325385.232	302795.885		mg/L	
	Y	89	142071.743	154072.595		ug/L	
⌈	Br	79	2045.293	2021.619	**1.100**	ug/L	45.294
|	Br	81	13150.698	14369.888	**1.108**	ug/L	111.295
⌊>	Ge-1	72	73465.923	81751.619		ug/L	
	Ru	99	2.333	1.333		ug/L	
	Pd	105	1872.580	1525.834		ug/L	
	Ho	165	169758.852	176668.743		ug/L	
	Th	232	87.668	211.005	**-0.007**	ug/L	4.000
⌈	Mo	95	923.065	94.668	**0.392**	ug/L	7.068
|	Mo	97	575.027	57.334	**0.389**	ug/L	8.749
|	Mo r	98	1425.074	142.338	**0.377**	ug/L	9.326
|	Rh	103	242.340	20.000		ug/L	
⌊>	In-1	115	144727.420	154619.939		ug/L	
	Ti	47	381.013	293.675		ug/L	
	Li	7	33842.957	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-25

Sample Description:
Autosampler Position: 32
Sample Date/Time: Friday, February 10, 2012 12:16:34
Dataset File: C:\Elandata\DataSet\EL120210\1202003-25.040
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	2.000	2.667	-0.002	ug/L	127.784
|>	Li u	6	301558.558	291368.212		ug/L	
⌊	Li	6	298928.493	289860.701		ug/L	
⌈	Be	9	2.000	2.667	-0.001	ug/L	275.183
|	B	11	5624.116	166.337	15.672	ug/L	6.540
|	Al	27	3498.164	1170.101	0.593	ug/L	5.611
|>	Sc	45	254590.478	288424.420		ug/L	
|	V r	51	-724.040	-914.216	0.013	ug/L	931.403
|	V u	51	135527.362	82527.835	8.988	ug/L	7.238
|	Cr r	52	10866.780	8490.770	0.601	ug/L	5.420
|	Cr	53	47080.818	29093.771	30.587	ug/L	6.330
|	Mn	55	588703.616	541.691	63.839	ug/L	5.542
|	Co	59	161.337	56.667	0.017	ug/L	12.163
|	Ni r	60	626.032	62.668	0.426	ug/L	7.031
|	Ni	62	69.334	79.335	-0.004	ug/L	372.644
|	Cu r	63	721.708	187.338	0.203	ug/L	3.620
⌊	Cu	65	316.343	104.668	0.178	ug/L	6.915
⌈	Zn r	66	309.009	221.005	0.147	ug/L	16.790
|	Zn	67	3678.583	1722.879	14.955	ug/L	5.299
|	Zn	68	3535.183	293.009	5.869	ug/L	8.460
|>	Ge	72	73010.255	81751.619		ug/L	
|	As r	75	1710.260	-6.938	1.737	ug/L	6.514
|	As u	75	12049.890	4749.848	8.302	ug/L	5.744
|	Se r	82	-17.134	-6.841	-0.100	ug/L	106.714
|	Se	77	3248.469	1496.171	23.726	ug/L	6.985
⌊	Sr	88	4950309.121	140.003	404.047	ug/L	6.359
⌈	Ag r	107	23.667	40.667	-0.002	ug/L	4.498
|	Ag	109	15.667	41.001	-0.004	ug/L	16.658
|	Cd r	111	100.457	138.023	-0.018	ug/L	53.477
|	Cd	106	-1830.564	-1698.819	-2.833	ug/L	23.278
|	Cd	108	-1894.758	-1805.708	-3.400	ug/L	24.606
|	Cd	114	5.565	18.484	-0.004	ug/L	13.505
|	Cd u	111	5.333	11.667	-0.004	ug/L	11.791
|>	In	115	137526.451	154619.939		ug/L	
|	Sb r	123	44.480	41.122	0.003	ug/L	137.227
⌊	Sb	121	32.667	48.334	-0.003	ug/L	18.978

⌈	Sn	118	78.335	168.337	**-0.020**	ug/L	8.016
|	Sn r	120	114.335	228.006	**-0.018**	ug/L	14.007
|	Ba r	137	379842.028	38.334	**205.045**	ug/L	7.010
|	Ba	135	218050.806	18.334	**204.452**	ug/L	7.331
|>	Tb	159	162257.933	181319.786		ug/L	
|	Tl r	205	233.673	605.030	**-0.032**	ug/L	7.124
|	Tl	203	97.002	251.340	**-0.031**	ug/L	15.368
|	U	238	4658.463	58.334	**0.256**	ug/L	10.553
⌊	Pb	208	340.340	1051.372	**-0.047**	ug/L	5.786
⌈	Na	23	29022628.345	21235.155	**6.192**	mg/L	5.175
|	Mg	24	12943011.091	585.362	**3.911**	mg/L	5.323
|	K	39	4795226.234	523798.486	**0.534**	mg/L	5.189
|	Ca	44	2769951.206	22549.288	**12.237**	mg/L	4.941
|	Fe	54	30653.782	25597.925	**0.015**	mg/L	9.976
⌊>	Sc-1	45	254590.478	288424.420		ug/L	
	Kr	83	168.670	173.337		ug/L	
	Cl	35	28830522.397	30039050.899		mg/L	
	C	12	318490.977	302795.885		mg/L	
	Y	89	136241.025	154072.595		ug/L	
⌈	Br	79	3758.290	2021.619	**9.429**	ug/L	11.056
|	Br	81	14298.429	14369.888	**6.842**	ug/L	35.021
⌊>	Ge-1	72	73010.255	81751.619		ug/L	
	Ru	99	2.000	1.333		ug/L	
	Pd	105	1603.517	1525.834		ug/L	
	Ho	165	159357.452	176668.743		ug/L	
	Th	232	79.335	211.005	**-0.008**	ug/L	4.578
⌈	Mo	95	356.345	94.668	**0.134**	ug/L	6.986
|	Mo	97	243.673	57.334	**0.151**	ug/L	6.197
|	Mo r	98	571.621	142.338	**0.137**	ug/L	2.085
|	Rh	103	111.335	20.000		ug/L	
⌊>	In-1	115	137526.451	154619.939		ug/L	
	Ti	47	419.349	293.675		ug/L	
	Li	7	32429.900	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ba r 137 Upper, S, EEE	Ba r 137	Sample greater than CLM3
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-26

Sample Description:
Autosampler Position: 33
Sample Date/Time: Friday, February 10, 2012 12:21:54
Dataset File: C:\Elandata\DataSet\EL120210\1202003-26.041
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.333	2.667	-0.004	ug/L	110.176
|>	Li u	6	299011.867	291368.212		ug/L	
⌊	Li	6	295936.015	289860.701		ug/L	
⌈	Be	9	1.333	2.667	-0.003	ug/L	151.769
|	B	11	9974.909	166.337	28.115	ug/L	5.065
|	Al	27	3567.197	1170.101	0.610	ug/L	5.025
|>	Sc	45	254519.117	288424.420		ug/L	
|	V r	51	-1453.124	-914.216	-0.095	ug/L	112.369
|	V u	51	139956.793	82527.835	9.625	ug/L	5.389
|	Cr r	52	11389.542	8490.770	0.695	ug/L	6.748
|	Cr	53	48622.083	29093.771	32.795	ug/L	5.263
|	Mn	55	572986.195	541.691	62.131	ug/L	6.291
|	Co	59	353.012	56.667	0.046	ug/L	5.929
|	Ni r	60	762.379	62.668	0.527	ug/L	3.377
|	Ni	62	89.001	79.335	0.098	ug/L	30.913
|	Cu r	63	734.042	187.338	0.207	ug/L	9.673
⌊	Cu	65	241.340	104.668	0.119	ug/L	9.809
⌈	Zn r	66	269.007	221.005	0.097	ug/L	18.230
|	Zn	67	3715.268	1722.879	15.404	ug/L	2.631
|	Zn	68	3622.559	293.009	6.072	ug/L	7.866
|>	Ge	72	72460.406	81751.619		ug/L	
|	As r	75	297.094	-6.938	0.309	ug/L	41.642
|	As u	75	11266.033	4749.848	7.558	ug/L	6.685
|	Se r	82	25.308	-6.841	0.285	ug/L	7.634
|	Se	77	3506.682	1496.171	27.253	ug/L	4.827
⌊	Sr	88	5917152.796	140.003	486.500	ug/L	5.428
⌈	Ag r	107	34.000	40.667	-0.000	ug/L	293.550
|	Ag	109	29.334	41.001	-0.001	ug/L	40.509
|	Cd r	111	110.977	138.023	-0.009	ug/L	13.952
|	Cd	106	-1939.954	-1698.819	-3.853	ug/L	13.068
|	Cd	108	-2011.750	-1805.708	-4.847	ug/L	15.203
|	Cd	114	19.615	18.484	0.001	ug/L	236.957
|	Cd u	111	9.000	11.667	-0.001	ug/L	256.656
|>	In	115	137147.339	154619.939		ug/L	
|	Sb r	123	145.980	41.122	0.036	ug/L	12.899
⌊	Sb	121	149.670	48.334	0.026	ug/L	12.501

⌈	Sn	118	188.338	168.337	**0.010**	ug/L	44.858
|	Sn r	120	254.340	228.006	**0.010**	ug/L	57.746
|	Ba r	137	386054.142	38.334	**208.290**	ug/L	6.490
|	Ba	135	221868.930	18.334	**207.912**	ug/L	7.404
|>	Tb	159	162173.625	181319.786		ug/L	
|	Tl r	205	551.359	605.030	**0.001**	ug/L	369.766
|	Tl	203	233.339	251.340	**0.002**	ug/L	330.886
|	U	238	2811.212	58.334	**0.153**	ug/L	10.302
⌊	Pb	208	817.358	1051.372	**-0.010**	ug/L	37.670
⌈	Na	23	49708316.905	21235.155	**10.609**	mg/L	5.248
|	Mg	24	11913973.429	585.362	**3.600**	mg/L	4.634
|	K	39	5960486.929	523798.486	**0.678**	mg/L	5.767
|	Ca	44	3025936.660	22549.288	**13.376**	mg/L	5.638
|	Fe	54	41246.143	25597.925	**0.034**	mg/L	11.246
⌊>	Sc-1	45	254519.117	288424.420		ug/L	
	Kr	83	156.336	173.337		ug/L	
	Cl	35	29854060.537	30039050.899		mg/L	
	C	12	320827.660	302795.885		mg/L	
	Y	89	138741.116	154072.595		ug/L	
⌈	Br	79	9089.125	2021.619	**35.481**	ug/L	2.609
|	Br	81	20033.254	14369.888	**34.300**	ug/L	1.370
⌊>	Ge-1	72	72460.406	81751.619		ug/L	
	Ru	99	0.667	1.333		ug/L	
	Pd	105	1707.873	1525.834		ug/L	
	Ho	165	159595.101	176668.743		ug/L	
	Th	232	76.001	211.005	**-0.008**	ug/L	7.518
⌈	Mo	95	253.673	94.668	**0.084**	ug/L	12.275
|	Mo	97	164.670	57.334	**0.090**	ug/L	6.084
|	Mo r	98	423.314	142.338	**0.091**	ug/L	8.806
|	Rh	103	148.336	20.000		ug/L	
⌊>	In-1	115	137147.339	154619.939		ug/L	
	Ti	47	419.682	293.675		ug/L	
	Li	7	37926.664	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
Ba r 137 Upper, S, EEE	Ba r	137	Sample greater than CLM3
Na 23 Upper, S, EEE	Na	23	Sample greater than CLM3
Ca 44 Upper, S, EEE	Ca	44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: BB20803-DUP3

Sample Description:
Autosampler Position: 34
Sample Date/Time: Friday, February 10, 2012 12:27:14
Dataset File: C:\Elandata\DataSet\EL120210\BB20803-DUP3.042
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	0.333	2.667	-0.007	ug/L	23.619
|>	Li u	6	300823.900	291368.212		ug/L	
⌞	Li	6	297599.111	289860.701		ug/L	
⌜	Be	9	0.333	2.667	-0.007	ug/L	28.053
|	B	11	10539.356	166.337	29.612	ug/L	9.927
|	Al	27	3342.429	1170.101	0.553	ug/L	12.182
|>	Sc	45	255759.229	288424.420		ug/L	
|	V r	51	-1057.471	-914.216	-0.040	ug/L	1047.265
|	V u	51	146965.320	82527.835	10.541	ug/L	11.932
|	Cr r	52	11603.197	8490.770	0.724	ug/L	11.018
|	Cr	53	50984.158	29093.771	35.866	ug/L	12.475
|	Mn	55	613365.262	541.691	66.269	ug/L	11.673
|	Co	59	163.670	56.667	0.017	ug/L	13.186
|	Ni r	60	764.046	62.668	0.527	ug/L	14.644
|	Ni	62	75.001	79.335	0.024	ug/L	115.567
|	Cu r	63	761.379	187.338	0.216	ug/L	6.860
⌞	Cu	65	219.339	104.668	0.100	ug/L	9.871
⌜	Zn r	66	280.008	221.005	0.112	ug/L	13.094
|	Zn	67	3906.365	1722.879	16.836	ug/L	7.647
|	Zn	68	3876.689	293.009	6.557	ug/L	12.079
|>	Ge	72	72255.184	81751.619		ug/L	
|	As r	75	241.571	-6.938	0.256	ug/L	158.150
|	As u	75	11990.813	4749.848	8.377	ug/L	10.817
|	Se r	82	17.928	-6.841	0.219	ug/L	122.691
|	Se	77	3788.787	1496.171	30.937	ug/L	10.975
⌞	Sr	88	6356587.108	140.003	524.594	ug/L	11.696
⌜	Ag r	107	20.667	40.667	-0.003	ug/L	32.743
|	Ag	109	18.000	41.001	-0.004	ug/L	17.017
|	Cd r	111	102.734	138.023	-0.017	ug/L	53.006
|	Cd	106	-1934.874	-1698.819	-3.694	ug/L	22.436
|	Cd	108	-2003.132	-1805.708	-4.587	ug/L	22.943
|	Cd	114	7.832	18.484	-0.003	ug/L	30.335
|	Cd u	111	5.000	11.667	-0.004	ug/L	17.949
|>	In	115	137996.175	154619.939		ug/L	
|	Sb r	123	56.650	41.122	0.006	ug/L	37.727
⌞	Sb	121	44.334	48.334	0.000	ug/L	198.803

⌈	Sn	118	105.668	168.337	**-0.012**	ug/L	53.797
|	Sn r	120	141.003	228.006	**-0.013**	ug/L	14.474
|	Ba r	137	416742.843	38.334	**223.243**	ug/L	10.701
|	Ba	135	244979.980	18.334	**227.911**	ug/L	11.309
|>	Tb	159	163075.032	181319.786		ug/L	
|	Tl r	205	204.338	605.030	**-0.035**	ug/L	6.271
|	Tl	203	90.001	251.340	**-0.033**	ug/L	4.999
|	U	238	2369.725	58.334	**0.128**	ug/L	8.663
⌊	Pb	208	333.673	1051.372	**-0.048**	ug/L	3.841
⌈	Na	23	54137056.105	21235.155	**11.511**	mg/L	10.282
|	Mg	24	12948139.307	585.362	**3.898**	mg/L	11.183
|	K	39	6247800.548	523798.486	**0.710**	mg/L	11.416
|	Ca	44	3235103.275	22549.288	**14.253**	mg/L	10.622
|	Fe	54	42935.345	25597.925	**0.037**	mg/L	18.938
⌊>	Sc-1	45	255759.229	288424.420		ug/L	
	Kr	83	161.670	173.337		ug/L	
	Cl	35	31389706.144	30039050.899		mg/L	
	C	12	327392.612	302795.885		mg/L	
	Y	89	139834.415	154072.595		ug/L	
⌈	Br	79	9061.113	2021.619	**35.500**	ug/L	11.308
|	Br	81	20276.918	14369.888	**35.743**	ug/L	12.223
⌊>	Ge-1	72	72255.184	81751.619		ug/L	
	Ru	99	1.667	1.333		ug/L	
	Pd	105	1704.540	1525.834		ug/L	
	Ho	165	160347.015	176668.743		ug/L	
	Th	232	82.001	211.005	**-0.007**	ug/L	11.731
⌈	Mo	95	242.006	94.668	**0.077**	ug/L	17.693
|	Mo	97	147.336	57.334	**0.075**	ug/L	8.789
|	Mo r	98	336.642	142.338	**0.064**	ug/L	13.876
|	Rh	103	160.670	20.000		ug/L	
⌊>	In-1	115	137996.175	154619.939		ug/L	
	Ti	47	459.352	293.675		ug/L	
	Li	7	39763.114	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
Ba r 137 Upper, S, EEE	Ba r	137	Sample greater than CLM3
Na 23 Upper, S, EEE	Na	23	Sample greater than CLM3
Ca 44 Upper, S, EEE	Ca	44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-27

Sample Description:
Autosampler Position: 35
Sample Date/Time: Friday, February 10, 2012 12:32:34
Dataset File: C:\Elandata\DataSet\EL120210\1202003-27.043
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	0.667	2.667	-0.006	ug/L	54.772
|>	Li u	6	300772.173	291368.212		ug/L	
⌊	Li	6	297559.546	289860.701		ug/L	
⌈	Be	9	0.667	2.667	-0.006	ug/L	70.997
|	B	11	10509.391	166.337	29.922	ug/L	17.022
|	Al	27	3843.000	1170.101	0.684	ug/L	9.476
|>	Sc	45	252603.500	288424.420		ug/L	
|	V r	51	-1101.033	-914.216	-0.045	ug/L	46.765
|	V u	51	147901.322	82527.835	10.938	ug/L	13.704
|	Cr r	52	11714.041	8490.770	0.770	ug/L	15.759
|	Cr	53	51518.983	29093.771	37.548	ug/L	15.839
|	Mn	55	606243.746	541.691	66.322	ug/L	14.298
|	Co	59	167.337	56.667	0.018	ug/L	18.521
|	Ni r	60	770.047	62.668	0.538	ug/L	21.243
|	Ni	62	83.001	79.335	0.071	ug/L	52.211
|	Cu r	63	1024.745	187.338	0.316	ug/L	3.993
⌊	Cu	65	354.012	104.668	0.210	ug/L	4.415
⌈	Zn r	66	290.342	221.005	0.127	ug/L	40.339
|	Zn	67	3860.342	1722.879	16.559	ug/L	9.536
|	Zn	68	3860.017	293.009	6.539	ug/L	14.185
|>	Ge	72	72118.561	81751.619		ug/L	
|	As r	75	20.537	-6.938	0.028	ug/L	876.380
|	As u	75	12171.107	4749.848	8.594	ug/L	11.858
|	Se r	82	12.621	-6.841	0.170	ug/L	74.995
|	Se	77	3856.178	1496.171	31.865	ug/L	10.571
⌊	Sr	88	6189979.798	140.003	511.765	ug/L	15.216
⌈	Ag r	107	24.334	40.667	-0.002	ug/L	21.676
|	Ag	109	17.667	41.001	-0.004	ug/L	27.206
|	Cd r	111	89.879	138.023	-0.026	ug/L	38.402
|	Cd	106	-1952.541	-1698.819	-4.040	ug/L	12.662
|	Cd	108	-2002.799	-1805.708	-4.844	ug/L	15.038
|	Cd	114	6.409	18.484	-0.003	ug/L	48.122
|	Cd u	111	6.000	11.667	-0.003	ug/L	25.082
|>	In	115	136466.738	154619.939		ug/L	
|	Sb r	123	49.814	41.122	0.004	ug/L	23.260
⌊	Sb	121	37.667	48.334	-0.001	ug/L	212.715

⌈	Sn	118	109.002	168.337	**-0.011**	ug/L	83.478
|	Sn r	120	140.003	228.006	**-0.013**	ug/L	39.148
|	Ba r	137	411015.636	38.334	**220.988**	ug/L	14.626
|	Ba	135	241205.053	18.334	**225.242**	ug/L	16.116
|>	Tb	159	162732.616	181319.786		ug/L	
|	Tl r	205	204.671	605.030	**-0.035**	ug/L	3.200
|	Tl	203	85.335	251.340	**-0.034**	ug/L	5.231
|	U	238	2292.370	58.334	**0.124**	ug/L	16.071
⌊	Pb	208	418.009	1051.372	**-0.041**	ug/L	6.779
⌈	Na	23	53806050.135	21235.155	**11.585**	mg/L	13.910
|	Mg	24	12722804.404	585.362	**3.879**	mg/L	14.884
|	K	39	6189801.074	523798.486	**0.712**	mg/L	14.800
|	Ca	44	3219101.009	22549.288	**14.363**	mg/L	14.789
|	Fe	54	35998.117	25597.925	**0.025**	mg/L	27.808
⌊>	Sc-1	45	252603.500	288424.420		ug/L	
	Kr	83	158.670	173.337		ug/L	
	Cl	35	31088307.211	30039050.899		mg/L	
	C	12	346981.441	302795.885		mg/L	
	Y	89	138229.891	154072.595		ug/L	
⌈	Br	79	9077.485	2021.619	**35.658**	ug/L	14.380
|	Br	81	19777.623	14369.888	**33.565**	ug/L	14.468
⌊>	Ge-1	72	72118.561	81751.619		ug/L	
	Ru	99	2.000	1.333		ug/L	
	Pd	105	1704.540	1525.834		ug/L	
	Ho	165	159752.054	176668.743		ug/L	
	Th	232	72.001	211.005	**-0.008**	ug/L	9.435
⌈	Mo	95	229.339	94.668	**0.072**	ug/L	22.854
|	Mo	97	148.670	57.334	**0.077**	ug/L	22.316
|	Mo r	98	379.460	142.338	**0.078**	ug/L	8.377
|	Rh	103	166.337	20.000		ug/L	
⌊>	In-1	115	136466.738	154619.939		ug/L	
	Ti	47	447.351	293.675		ug/L	
	Li	7	39613.161	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
Ba r 137 Upper, S, EEE	Ba r	137	Sample greater than CLM3
Na 23 Upper, S, EEE	Na	23	Sample greater than CLM3
Ca 44 Upper, S, EEE	Ca	44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-28

Sample Description:
Autosampler Position: 36
Sample Date/Time: Friday, February 10, 2012 12:37:55
Dataset File: C:\Elandata\DataSet\EL120210\1202003-28.044
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	2.000	2.667	-0.002	ug/L	222.617
|>	Li u	6	306973.508	291368.212		ug/L	
L	Li	6	304276.468	289860.701		ug/L	
⌈	Be	9	2.000	2.667	-0.001	ug/L	486.998
|	B	11	10464.908	166.337	29.407	ug/L	7.229
|	Al	27	3516.172	1170.101	0.595	ug/L	3.206
|>	Sc	45	255514.312	288424.420		ug/L	
|	V r	51	-1139.703	-914.216	-0.049	ug/L	33.366
|	V u	51	145712.939	82527.835	10.371	ug/L	4.596
|	Cr r	52	11703.683	8490.770	0.743	ug/L	6.275
|	Cr	53	50427.646	29093.771	35.104	ug/L	5.508
|	Mn	55	31816.428	541.691	3.388	ug/L	5.722
|	Co	59	181.004	56.667	0.020	ug/L	17.397
|	Ni r	60	719.374	62.668	0.493	ug/L	8.812
|	Ni	62	74.001	79.335	0.019	ug/L	171.399
|	Cu r	63	1597.516	187.338	0.520	ug/L	7.185
L	Cu	65	721.041	104.668	0.498	ug/L	4.418
⌈	Zn r	66	299.342	221.005	0.131	ug/L	4.824
|	Zn	67	3094.320	1722.879	10.722	ug/L	3.274
|	Zn	68	1254.448	293.009	1.764	ug/L	5.373
|>	Ge	72	73522.486	81751.619		ug/L	
|	As r	75	-105.427	-6.938	-0.100	ug/L	275.487
|	As u	75	12205.134	4749.848	8.380	ug/L	6.057
|	Se r	82	-12.021	-6.841	-0.052	ug/L	282.061
|	Se	77	3838.189	1496.171	30.725	ug/L	7.842
L	Sr	88	8993821.654	140.003	729.335	ug/L	7.122
⌈	Ag r	107	23.334	40.667	-0.003	ug/L	44.255
|	Ag	109	17.000	41.001	-0.004	ug/L	7.557
|	Cd r	111	115.833	138.023	-0.010	ug/L	54.488
|	Cd	106	-2236.697	-1698.819	-5.539	ug/L	6.946
|	Cd	108	-2303.036	-1805.708	-6.985	ug/L	7.970
|	Cd	114	17.848	18.484	0.000	ug/L	875.129
|	Cd u	111	9.667	11.667	-0.001	ug/L	184.838
|>	In	115	144027.048	154619.939		ug/L	
|	Sb r	123	141.307	41.122	0.032	ug/L	10.576
L	Sb	121	149.003	48.334	0.024	ug/L	21.812

⌈	Sn	118	92.668	168.337	**-0.017**	ug/L	2.594
|	Sn r	120	117.335	228.006	**-0.018**	ug/L	12.783
|	Ba r	137	94856.484	38.334	**48.290**	ug/L	5.689
|	Ba	135	54916.581	18.334	**48.561**	ug/L	6.107
|>	Tb	159	171880.998	181319.786		ug/L	
|	Tl r	205	209.005	605.030	**-0.035**	ug/L	2.853
|	Tl	203	86.001	251.340	**-0.035**	ug/L	4.856
|	U	238	23887.016	58.334	**1.248**	ug/L	6.784
⌊	Pb	208	582.681	1051.372	**-0.031**	ug/L	8.715
⌈	Na	23	28119279.559	21235.155	**5.977**	mg/L	5.905
|	Mg	24	11348135.939	585.362	**3.416**	mg/L	5.759
|	K	39	6639932.831	523798.486	**0.758**	mg/L	6.374
|	Ca	44	3379510.537	22549.288	**14.895**	mg/L	6.645
|	Fe	54	24156.158	25597.925	**0.003**	mg/L	51.833
⌊>	Sc-1	45	255514.312	288424.420		ug/L	
	Kr	83	155.670	173.337		ug/L	
	Cl	35	30518897.852	30039050.899		mg/L	
	C	12	335000.242	302795.885		mg/L	
	Y	89	144105.580	154072.595		ug/L	
⌈	Br	79	2296.367	2021.619	**2.303**	ug/L	46.097
|	Br	81	13152.034	14369.888	**1.067**	ug/L	119.032
⌊>	Ge-1	72	73522.486	81751.619		ug/L	
	Ru	99	0.667	1.333		ug/L	
	Pd	105	1950.600	1525.834		ug/L	
	Ho	165	165894.558	176668.743		ug/L	
	Th	232	73.668	211.005	**-0.008**	ug/L	8.021
⌈	Mo	95	1021.412	94.668	**0.440**	ug/L	6.701
|	Mo	97	655.368	57.334	**0.451**	ug/L	7.023
|	Mo r	98	1679.906	142.338	**0.453**	ug/L	4.521
|	Rh	103	233.673	20.000		ug/L	
⌊>	In-1	115	144027.048	154619.939		ug/L	
	Ti	47	391.014	293.675		ug/L	
	Li	7	33255.742	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

DIM0216291 DIM0216864

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: BB20803-MS3

Sample Description:
Autosampler Position: 37
Sample Date/Time: Friday, February 10, 2012 12:43:16
Dataset File: C:\Elandata\DataSet\EL120210\BB20803-MS3.045
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	692.705	2.667	1.881	ug/L	10.079
|>	Li u	6	309333.459	291368.212		ug/L	
⌞	Li	6	304625.022	289860.701		ug/L	
⌜	Be	9	692.705	2.667	2.286	ug/L	11.313
|	B	11	17967.561	166.337	50.626	ug/L	9.423
|	Al	27	342789.230	1170.101	81.679	ug/L	7.929
|>	Sc	45	256529.686	288424.420		ug/L	
|	V r	51	135237.762	-914.216	19.956	ug/L	8.440
|	V u	51	276117.414	82527.835	28.861	ug/L	8.187
|	Cr r	52	125834.733	8490.770	20.947	ug/L	8.498
|	Cr	53	61462.642	29093.771	50.516	ug/L	11.566
|	Mn	55	219892.517	541.691	23.639	ug/L	6.051
|	Co	59	132595.771	56.667	20.098	ug/L	6.668
|	Ni r	60	27124.120	62.668	20.047	ug/L	7.322
|	Ni	62	3959.060	79.335	19.992	ug/L	6.483
|	Cu r	63	55937.208	187.338	20.177	ug/L	6.391
⌞	Cu	65	25929.315	104.668	20.406	ug/L	7.114
⌜	Zn r	66	15940.009	221.005	20.414	ug/L	5.230
|	Zn	67	6019.084	1722.879	30.778	ug/L	6.829
|	Zn	68	13507.674	293.009	23.439	ug/L	6.666
|>	Ge	72	73955.920	81751.619		ug/L	
|	As r	75	20152.019	-6.938	20.142	ug/L	5.446
|	As u	75	30634.986	4749.848	27.655	ug/L	7.946
|	Se r	82	2256.133	-6.841	20.144	ug/L	4.180
|	Se	77	5327.199	1496.171	48.694	ug/L	10.581
⌞	Sr	88	9050135.990	140.003	729.411	ug/L	6.941
⌜	Ag r	107	10758.985	40.667	1.972	ug/L	7.367
|	Ag	109	10367.435	41.001	2.000	ug/L	6.123
|	Cd r	111	2690.277	138.023	1.960	ug/L	4.899
|	Cd	106	-1972.449	-1698.819	-3.125	ug/L	19.908
|	Cd	108	-2007.483	-1805.708	-3.423	ug/L	23.641
|	Cd	114	6319.210	18.484	2.046	ug/L	7.399
|	Cd u	111	2690.498	11.667	2.042	ug/L	5.075
|>	In	115	145575.801	154619.939		ug/L	
|	Sb r	123	67054.556	41.122	20.552	ug/L	6.984
⌞	Sb	121	88212.288	48.334	20.434	ug/L	6.166

⌈	Sn	118	78313.136	168.337	**19.901**	ug/L	7.939
|	Sn r	120	107254.256	228.006	**19.923**	ug/L	7.992
|	Ba r	137	252007.733	38.334	**127.898**	ug/L	6.509
|	Ba	135	145117.645	18.334	**127.918**	ug/L	6.150
|>	Tb	159	172436.419	181319.786		ug/L	
|	Tl r	205	191897.352	605.030	**18.494**	ug/L	5.039
|	Tl	203	78265.129	251.340	**18.045**	ug/L	3.379
|	U	238	416680.786	58.334	**21.739**	ug/L	7.344
⌊	Pb	208	283067.967	1051.372	**20.749**	ug/L	6.463
⌈	Na	23	29210704.647	21235.155	**6.188**	mg/L	7.831
|	Mg	24	12361913.052	585.362	**3.709**	mg/L	7.842
|	K	39	13124705.638	523798.486	**1.549**	mg/L	8.520
|	Ca	44	3358955.733	22549.288	**14.752**	mg/L	8.077
|	Fe	54	115240.297	25597.925	**0.168**	mg/L	8.304
⌊>	Sc-1	45	256529.686	288424.420		ug/L	
	Kr	83	145.336	173.337		ug/L	
	Cl	35	29544314.479	30039050.899		mg/L	
	C	12	332615.309	302795.885		mg/L	
	Y	89	145676.656	154072.595		ug/L	
⌈	Br	79	3162.348	2021.619	**6.356**	ug/L	6.996
|	Br	81	14132.446	14369.888	**5.218**	ug/L	9.834
⌊>	Ge-1	72	73955.920	81751.619		ug/L	
	Ru	99	9.667	1.333		ug/L	
	Pd	105	1924.260	1525.834		ug/L	
	Ho	165	166808.211	176668.743		ug/L	
	Th	232	122.336	211.005	**-0.005**	ug/L	11.575
⌈	Mo	95	42905.862	94.668	**19.990**	ug/L	7.797
|	Mo	97	26816.092	57.334	**19.836**	ug/L	7.626
|	Mo r	98	68612.012	142.338	**19.851**	ug/L	7.061
|	Rh	103	256.340	20.000		ug/L	
⌊>	In-1	115	145575.801	154619.939		ug/L	
	Ti	47	10240.603	293.675		ug/L	
	Li	7	58057.181	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ba r 137 Upper, S, EEE	Ba r 137	Sample greater than CLM3
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-29

Sample Description:
Autosampler Position: 38
Sample Date/Time: Friday, February 10, 2012 12:48:38
Dataset File: C:\Elandata\DataSet\EL120210\1202003-29.046
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	0.333	2.667	-0.007	ug/L	23.734
|>	Li u	6	304613.112	291368.212		ug/L	
L	Li	6	301262.662	289860.701		ug/L	
⌈	Be	9	0.333	2.667	-0.007	ug/L	29.552
|	B	11	11455.162	166.337	32.640	ug/L	33.258
|	Al	27	3635.920	1170.101	0.633	ug/L	32.512
|>	Sc	45	253631.603	288424.420		ug/L	
|	V r	51	-2270.541	-914.216	-0.214	ug/L	119.064
|	V u	51	160080.708	82527.835	12.646	ug/L	26.770
|	Cr r	52	12536.384	8490.770	0.911	ug/L	27.345
|	Cr	53	55512.070	29093.771	43.096	ug/L	24.841
|	Mn	55	3856.699	541.691	0.370	ug/L	26.239
|	Co	59	191.671	56.667	0.022	ug/L	32.936
|	Ni r	60	810.719	62.668	0.568	ug/L	29.949
|	Ni	62	81.668	79.335	0.062	ug/L	68.287
|	Cu r	63	5170.847	187.338	1.838	ug/L	25.682
L	Cu	65	2266.702	104.668	1.743	ug/L	26.585
⌈	Zn r	66	1213.112	221.005	1.345	ug/L	31.943
|	Zn	67	4306.259	1722.879	19.495	ug/L	21.393
|	Zn	68	4520.431	293.009	7.689	ug/L	29.297
|>	Ge	72	72752.899	81751.619		ug/L	
|	As r	75	-4.562	-6.938	0.000	ug/L	879672.714
|	As u	75	13550.224	4749.848	9.976	ug/L	23.789
|	Se r	82	25.053	-6.841	0.283	ug/L	31.122
|	Se	77	4261.172	1496.171	36.593	ug/L	27.131
L	Sr	88	6621546.955	140.003	544.410	ug/L	31.444
⌈	Ag r	107	17.334	40.667	-0.004	ug/L	11.946
|	Ag	109	15.000	41.001	-0.004	ug/L	5.178
|	Cd r	111	114.208	138.023	-0.009	ug/L	83.069
|	Cd	106	-1947.926	-1698.819	-3.484	ug/L	37.211
|	Cd	108	-2020.553	-1805.708	-4.346	ug/L	35.669
|	Cd	114	16.818	18.484	0.000	ug/L	15516.873
|	Cd u	111	10.333	11.667	-0.000	ug/L	249.170
|>	In	115	140664.978	154619.939		ug/L	
|	Sb r	123	72.475	41.122	0.011	ug/L	94.464
L	Sb	121	57.667	48.334	0.003	ug/L	120.586

⌈	Sn	118	168.337	168.337	**0.003**	ug/L	291.584
|	Sn r	120	212.339	228.006	**0.000**	ug/L	3031.273
|	Ba r	137	423036.400	38.334	**221.280**	ug/L	30.028
|	Ba	135	245285.949	18.334	**222.896**	ug/L	28.252
|>	Tb	159	166699.362	181319.786		ug/L	
|	Tl r	205	930.070	605.030	**0.037**	ug/L	81.340
|	Tl	203	401.016	251.340	**0.040**	ug/L	101.597
|	U	238	3823.044	58.334	**0.203**	ug/L	28.356
⌊	Pb	208	340.340	1051.372	**-0.048**	ug/L	5.726
⌈	Na	23	56247505.226	21235.155	**12.106**	mg/L	30.750
|	Mg	24	13627129.694	585.362	**4.151**	mg/L	29.501
|	K	39	6669145.182	523798.486	**0.772**	mg/L	31.219
|	Ca	44	3409357.987	22549.288	**15.208**	mg/L	30.921
|	Fe	54	25560.099	25597.925	**0.006**	mg/L	122.964
⌊>	Sc-1	45	253631.603	288424.420		ug/L	
	Kr	83	147.336	173.337		ug/L	
	Cl	35	34228857.012	30039050.899		mg/L	
	C	12	338297.976	302795.885		mg/L	
	Y	89	140487.790	154072.595		ug/L	
⌈	Br	79	8909.050	2021.619	**34.553**	ug/L	27.674
|	Br	81	19922.453	14369.888	**33.541**	ug/L	32.067
⌊>	Ge-1	72	72752.899	81751.619		ug/L	
	Ru	99	4.333	1.333		ug/L	
	Pd	105	1712.208	1525.834		ug/L	
	Ho	165	163692.439	176668.743		ug/L	
	Th	232	81.668	211.005	**-0.007**	ug/L	12.969
⌈	Mo	95	307.676	94.668	**0.107**	ug/L	36.114
|	Mo	97	198.005	57.334	**0.112**	ug/L	45.457
|	Mo r	98	480.875	142.338	**0.105**	ug/L	31.770
|	Rh	103	174.670	20.000		ug/L	
⌊>	In-1	115	140664.978	154619.939		ug/L	
	Ti	47	432.683	293.675		ug/L	
	Li	7	41312.574	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass		Out of Limits Message
Ba r 137 Upper, S, EEE	Ba r	137	Sample greater than CLM3
Na 23 Upper, S, EEE	Na	23	Sample greater than CLM3
Ca 44 Upper, S, EEE	Ca	44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-30

Sample Description:
Autosampler Position: 39
Sample Date/Time: Friday, February 10, 2012 12:54:00
Dataset File: C:\Elandata\DataSet\EL120210\1202003-30.047
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	1.000	2.667	-0.005	ug/L	0.480
|>	Li u	6	306176.071	291368.212		ug/L	
⌞	Li	6	303420.026	289860.701		ug/L	
⌜	Be	9	1.000	2.667	-0.005	ug/L	0.811
|	B	11	6345.353	166.337	17.347	ug/L	6.777
|	Al	27	5378.938	1170.101	1.019	ug/L	7.996
|>	Sc	45	260131.223	288424.420		ug/L	
|	V r	51	-799.207	-914.216	0.003	ug/L	7032.605
|	V u	51	160584.513	82527.835	12.090	ug/L	7.293
|	Cr r	52	12676.566	8490.770	0.876	ug/L	5.600
|	Cr	53	55996.790	29093.771	41.625	ug/L	7.284
|	Mn	55	2469.089	541.691	0.210	ug/L	10.509
|	Co	59	33.667	56.667	-0.003	ug/L	21.500
|	Ni r	60	138.003	62.668	0.059	ug/L	8.121
|	Ni	62	100.335	79.335	0.146	ug/L	12.389
|	Cu r	63	13037.877	187.338	4.590	ug/L	8.093
⌞	Cu	65	5651.142	104.668	4.327	ug/L	9.790
⌜	Zn r	66	700.706	221.005	0.635	ug/L	7.125
|	Zn	67	3048.301	1722.879	9.948	ug/L	3.562
|	Zn	68	899.062	293.009	1.097	ug/L	9.974
|>	Ge	72	75126.833	81751.619		ug/L	
|	As r	75	1139.357	-6.938	1.127	ug/L	11.915
|	As u	75	14475.435	4749.848	10.447	ug/L	6.769
|	Se r	82	-12.096	-6.841	-0.051	ug/L	158.958
|	Se	77	4269.700	1496.171	34.901	ug/L	7.353
⌞	Sr	88	175953.496	140.003	13.947	ug/L	8.869
⌜	Ag r	107	15.334	40.667	-0.004	ug/L	6.948
|	Ag	109	13.333	41.001	-0.005	ug/L	6.528
|	Cd r	111	42.905	138.023	-0.066	ug/L	27.082
|	Cd	106	-1540.506	-1698.819	0.119	ug/L	467.925
|	Cd	108	-1563.953	-1805.708	1.011	ug/L	57.982
|	Cd	114	10.492	18.484	-0.002	ug/L	8.695
|	Cd u	111	7.000	11.667	-0.003	ug/L	25.716
|>	In	115	141472.577	154619.939		ug/L	
|	Sb r	123	39.995	41.122	0.001	ug/L	423.927
⌞	Sb	121	49.001	48.334	0.001	ug/L	99.637

⌈	Sn	118	118.335	168.337	**-0.010**	ug/L	9.439
|	Sn r	120	154.336	228.006	**-0.011**	ug/L	7.893
|	Ba r	137	15227.274	38.334	**7.793**	ug/L	9.942
|	Ba	135	8812.481	18.334	**7.834**	ug/L	8.230
|>	Tb	159	170786.929	181319.786		ug/L	
|	Tl r	205	339.344	605.030	**-0.022**	ug/L	6.774
|	Tl	203	147.003	251.340	**-0.021**	ug/L	22.086
|	U	238	9089.486	58.334	**0.476**	ug/L	10.785
⌊	Pb	208	419.675	1051.372	**-0.042**	ug/L	2.567
⌈	Na	23	139518911.992	21235.155	**29.154**	mg/L	8.807
|	Mg	24	814737.316	585.362	**0.241**	mg/L	8.298
|	K	39	1306403.732	523798.486	**0.101**	mg/L	8.425
|	Ca	44	149198.316	22549.288	**0.561**	mg/L	8.419
|	Fe	54	25154.751	25597.925	**0.004**	mg/L	67.772
⌊>	Sc-1	45	260131.223	288424.420		ug/L	
	Kr	83	164.337	173.337		ug/L	
	Cl	35	32016642.994	30039050.899		mg/L	
	C	12	338948.952	302795.885		mg/L	
	Y	89	140672.457	154072.595		ug/L	
⌈	Br	79	4713.160	2021.619	**13.394**	ug/L	10.133
|	Br	81	16079.622	14369.888	**13.030**	ug/L	11.456
⌊>	Ge-1	72	75126.833	81751.619		ug/L	
	Ru	99	0.667	1.333		ug/L	
	Pd	105	1383.138	1525.834		ug/L	
	Ho	165	165868.272	176668.743		ug/L	
	Th	232	67.668	211.005	**-0.008**	ug/L	1.611
⌈	Mo	95	594.696	94.668	**0.244**	ug/L	7.896
|	Mo	97	354.012	57.334	**0.230**	ug/L	1.720
|	Mo r	98	910.582	142.338	**0.233**	ug/L	3.641
|	Rh	103	12.333	20.000		ug/L	
⌊>	In-1	115	141472.577	154619.939		ug/L	
	Ti	47	436.350	293.675		ug/L	
	Li	7	33983.289	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Na 23 Upper, S, EEE	Na 23	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Friday, February 10, 2012 12:59:16
Dataset File: C:\Elandata\DataSet\EL120210\QC Std 2.048
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	16224.923	2.667	**47.338**	ug/L	1.436
|>	Li u	6	288988.706	291368.212		ug/L	
⌞	Li	6	287509.161	289860.701		ug/L	
⌜	Be	9	16224.923	2.667	**52.605**	ug/L	1.724
|	B	11	19392.276	166.337	**53.538**	ug/L	2.345
|	Al	27	217316.813	1170.101	**50.622**	ug/L	0.847
|>	Sc	45	261749.343	288424.420		ug/L	
|	V r	51	342726.286	-914.216	**49.355**	ug/L	2.220
|	V u	51	450083.744	82527.835	**52.320**	ug/L	2.404
|	Cr r	52	294676.938	8490.770	**49.773**	ug/L	1.306
|	Cr	53	69962.824	29093.771	**60.556**	ug/L	4.575
|	Mn	55	468198.861	541.691	**49.362**	ug/L	1.073
|	Co	59	328995.995	56.667	**48.854**	ug/L	0.181
|	Ni r	60	67389.585	62.668	**48.841**	ug/L	0.187
|	Ni	62	9802.673	79.335	**49.007**	ug/L	1.345
|	Cu r	63	137217.463	187.338	**48.565**	ug/L	0.118
⌞	Cu	65	63705.355	104.668	**49.209**	ug/L	0.836
⌜	Zn r	66	39767.604	221.005	**51.180**	ug/L	1.175
|	Zn	67	9478.264	1722.879	**54.473**	ug/L	0.159
|	Zn	68	28412.337	293.009	**49.681**	ug/L	1.796
|>	Ge	72	74125.844	81751.619		ug/L	
|	As r	75	50090.650	-6.938	**49.921**	ug/L	0.909
|	As u	75	54794.394	4749.848	**52.861**	ug/L	2.246
|	Se r	82	5619.768	-6.841	**49.971**	ug/L	0.648
|	Se	77	6388.876	1496.171	**61.479**	ug/L	6.402
⌞	Sr	88	635867.248	140.003	**51.096**	ug/L	0.789
⌜	Ag r	107	252730.656	40.667	**48.688**	ug/L	0.843
|	Ag	109	242305.929	41.001	**49.141**	ug/L	0.571
|	Cd r	111	61272.786	138.023	**49.026**	ug/L	1.162
|	Cd	106	4041.214	-1698.819	**48.835**	ug/L	3.889
|	Cd	108	2658.604	-1805.708	**49.887**	ug/L	2.883
|	Cd	114	144787.648	18.484	**49.234**	ug/L	1.099
|	Cd u	111	61524.694	11.667	**49.104**	ug/L	1.173
|>	In	115	138957.817	154619.939		ug/L	
|	Sb r	123	152179.133	41.122	**48.874**	ug/L	0.408
⌞	Sb	121	203365.183	48.334	**49.364**	ug/L	0.658

	Sn	118	185574.003	168.337	**48.895**	ug/L	1.907
	Sn r	120	254650.142	228.006	**49.042**	ug/L	1.894
	Ba r	137	93085.445	38.334	**48.914**	ug/L	0.414
	Ba	135	53247.268	18.334	**48.600**	ug/L	2.582
>	Tb	159	166465.256	181319.786		ug/L	
	Tl r	205	491757.642	605.030	**49.175**	ug/L	1.357
	Tl	203	206742.743	251.340	**49.466**	ug/L	1.592
	U	238	918507.568	58.334	**49.629**	ug/L	1.238
	Pb	208	669330.532	1051.372	**50.914**	ug/L	1.383
	Na	23	25103609.211	21235.155	**5.208**	mg/L	1.134
	Mg	24	17745426.527	585.362	**5.214**	mg/L	0.889
	K	39	43003404.495	523798.486	**5.096**	mg/L	0.818
	Ca	44	1024042.324	22549.288	**4.343**	mg/L	0.816
	Fe	54	2943687.308	25597.925	**5.194**	mg/L	1.366
>	Sc-1	45	261749.343	288424.420		ug/L	
	Kr	83	168.337	173.337		ug/L	
	Cl	35	29585147.717	30039050.899		mg/L	
	C	12	335508.948	302795.885		mg/L	
	Y	89	140485.305	154072.595		ug/L	
	Br	79	12739.668	2021.619	**51.838**	ug/L	0.760
	Br	81	23998.283	14369.888	**50.407**	ug/L	0.223
>	Ge-1	72	74125.844	81751.619		ug/L	
	Ru	99	15.000	1.333		ug/L	
	Pd	105	1446.484	1525.834		ug/L	
	Ho	165	162199.891	176668.743		ug/L	
	Th	232	849345.479	211.005	**49.208**	ug/L	0.825
	Mo	95	97447.003	94.668	**47.611**	ug/L	0.420
	Mo	97	60773.753	57.334	**47.141**	ug/L	0.952
	Mo r	98	157267.979	142.338	**47.715**	ug/L	0.857
	Rh	103	49.001	20.000		ug/L	
>	In-1	115	138957.817	154619.939		ug/L	
	Ti	47	215.339	293.675		ug/L	
	Li	7	18243.462	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
QC Std 2	Cr	53	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Ca	44	CCV (CLC) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 4

Sample Description:
Autosampler Position: 1
Sample Date/Time: Friday, February 10, 2012 13:04:28
Dataset File: C:\Elandata\DataSet\EL120210\QC Std 4.049
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	5.667	2.667	0.008	ug/L	185.731
|>	Li u	6	295094.239	291368.212		ug/L	
⌊	Li	6	293589.547	289860.701		ug/L	
⌈	Be	9	5.667	2.667	0.010	ug/L	169.539
|	B	11	226.339	166.337	0.216	ug/L	61.046
|	Al	27	910.063	1170.101	-0.034	ug/L	10.405
|>	Sc	45	259596.889	288424.420		ug/L	
|	V r	51	33.055	-914.216	0.121	ug/L	164.031
|	V u	51	100935.492	82527.835	3.744	ug/L	12.465
|	Cr r	52	8546.499	8490.770	0.158	ug/L	5.946
|	Cr	53	34639.564	29093.771	11.841	ug/L	10.424
|	Mn	55	422.016	541.691	-0.007	ug/L	6.008
|	Co	59	48.334	56.667	-0.000	ug/L	102.045
|	Ni r	60	45.001	62.668	-0.008	ug/L	50.553
|	Ni	62	75.334	79.335	0.019	ug/L	269.462
|	Cu r	63	153.003	187.338	-0.005	ug/L	180.445
⌊	Cu	65	85.668	104.668	-0.006	ug/L	256.549
⌈	Zn r	66	160.670	221.005	-0.055	ug/L	26.693
|	Zn	67	2690.832	1722.879	7.471	ug/L	10.477
|	Zn	68	350.345	293.009	0.139	ug/L	26.064
|>	Ge	72	75314.670	81751.619		ug/L	
|	As r	75	-107.456	-6.938	-0.099	ug/L	93.973
|	As u	75	6156.195	4749.848	1.833	ug/L	15.292
|	Se r	82	-7.406	-6.841	-0.009	ug/L	915.095
|	Se	77	1973.050	1496.171	7.139	ug/L	27.521
⌊	Sr	88	278.675	140.003	0.012	ug/L	4.635
⌈	Ag r	107	53.667	40.667	0.003	ug/L	123.675
|	Ag	109	57.334	41.001	0.004	ug/L	110.695
|	Cd r	111	114.491	138.023	-0.011	ug/L	69.757
|	Cd	106	-1634.892	-1698.819	-0.400	ug/L	114.322
|	Cd	108	-1714.114	-1805.708	-0.300	ug/L	217.045
|	Cd	114	23.303	18.484	0.002	ug/L	79.472
|	Cd u	111	11.667	11.667	0.001	ug/L	654.103
|>	In	115	144522.303	154619.939		ug/L	
|	Sb r	123	45.413	41.122	0.002	ug/L	15.861
⌊	Sb	121	52.001	48.334	0.002	ug/L	52.070

⌈	Sn	118	162.670	168.337	**0.001**	ug/L	957.203
|	Sn r	120	213.339	228.006	**-0.000**	ug/L	1858.955
|	Ba r	137	44.667	38.334	**0.004**	ug/L	135.937
|	Ba	135	26.334	18.334	**0.008**	ug/L	39.451
|>	Tb	159	171785.839	181319.786		ug/L	
|	Tl r	205	1772.240	605.030	**0.117**	ug/L	55.345
|	Tl	203	714.377	251.340	**0.111**	ug/L	59.709
|	U	238	129.002	58.334	**0.004**	ug/L	11.165
⌊	Pb	208	377.007	1051.372	**-0.046**	ug/L	4.895
⌈	Na	23	32826.256	21235.155	**0.003**	mg/L	10.458
|	Mg	24	1634.857	585.362	**0.000**	mg/L	11.046
|	K	39	496579.132	523798.486	**0.003**	mg/L	34.403
|	Ca	44	10477.904	22549.288	**-0.043**	mg/L	0.559
|	Fe	54	22093.367	25597.925	**-0.002**	mg/L	54.294
⌊>	Sc-1	45	259596.889	288424.420		ug/L	
	Kr	83	161.670	173.337		ug/L	
	Cl	35	28845411.865	30039050.899		mg/L	
	C	12	289224.994	302795.885		mg/L	
	Y	89	144306.444	154072.595		ug/L	
⌈	Br	79	2342.380	2021.619	**2.246**	ug/L	7.322
|	Br	81	13398.794	14369.888	**0.724**	ug/L	37.478
⌊>	Ge-1	72	75314.670	81751.619		ug/L	
	Ru	99	2.667	1.333		ug/L	
	Pd	105	1448.818	1525.834		ug/L	
	Ho	165	169505.925	176668.743		ug/L	
	Th	232	944.402	211.005	**0.043**	ug/L	24.449
⌈	Mo	95	167.670	94.668	**0.037**	ug/L	29.329
|	Mo	97	86.335	57.334	**0.025**	ug/L	102.259
|	Mo r	98	231.118	142.338	**0.029**	ug/L	38.942
|	Rh	103	5.000	20.000		ug/L	
⌊>	In-1	115	144522.303	154619.939		ug/L	
	Ti	47	156.336	293.675		ug/L	
	Li	7	18553.535	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
QC Std 4	V u	51	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cr	53	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Zn	67	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	As u	75	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Ca	44	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br	79	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br	81	IBL (LCB) is out of limits (+/- 0.400ug/L)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 1202003-31

Sample Description:
Autosampler Position: 40
Sample Date/Time: Friday, February 10, 2012 13:09:44
Dataset File: C:\Elandata\DataSet\EL120210\1202003-31.050
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌜	Be r	9	1.333	2.667	-0.004	ug/L	41.607
|>	Li u	6	298344.652	291368.212		ug/L	
⌞	Li	6	296835.001	289860.701		ug/L	
⌜	Be	9	1.333	2.667	-0.003	ug/L	56.596
|	B	11	396.681	166.337	0.700	ug/L	9.673
|	Al	27	2706.839	1170.101	0.394	ug/L	12.152
|>	Sc	45	257896.351	288424.420		ug/L	
|	V r	51	809.286	-914.216	0.236	ug/L	108.203
|	V u	51	110443.168	82527.835	5.184	ug/L	7.228
|	Cr r	52	9536.003	8490.770	0.342	ug/L	1.842
|	Cr	53	37858.686	29093.771	16.703	ug/L	5.827
|	Mn	55	518.689	541.691	0.004	ug/L	51.795
|	Co	59	26.667	56.667	-0.004	ug/L	16.363
|	Ni r	60	62.001	62.668	0.004	ug/L	123.807
|	Ni	62	59.667	79.335	-0.057	ug/L	54.539
|	Cu r	63	315.676	187.338	0.053	ug/L	8.041
⌞	Cu	65	161.670	104.668	0.053	ug/L	39.182
⌜	Zn r	66	320.010	221.005	0.149	ug/L	10.221
|	Zn	67	2956.598	1722.879	9.321	ug/L	5.245
|	Zn	68	500.688	293.009	0.403	ug/L	8.104
|>	Ge	72	75149.054	81751.619		ug/L	
|	As r	75	-75.355	-6.938	-0.068	ug/L	160.742
|	As u	75	6916.179	4749.848	2.635	ug/L	10.350
|	Se r	82	-14.447	-6.841	-0.071	ug/L	247.273
|	Se	77	2191.079	1496.171	9.835	ug/L	12.887
⌞	Sr	88	214.338	140.003	0.007	ug/L	20.331
⌜	Ag r	107	24.000	40.667	-0.003	ug/L	31.344
|	Ag	109	22.000	41.001	-0.003	ug/L	9.884
|	Cd r	111	121.709	138.023	-0.005	ug/L	106.440
|	Cd	106	-1700.394	-1698.819	-1.028	ug/L	77.113
|	Cd	108	-1793.979	-1805.708	-1.301	ug/L	79.049
|	Cd	114	11.025	18.484	-0.002	ug/L	51.571
|	Cd u	111	6.000	11.667	-0.004	ug/L	34.961
|>	In	115	143780.447	154619.939		ug/L	
|	Sb r	123	39.540	41.122	0.000	ug/L	1022.681
⌞	Sb	121	54.001	48.334	0.002	ug/L	67.146

⌈	Sn	118	123.336	168.337	-0.009	ug/L	41.069
|	Sn r	120	183.337	228.006	-0.006	ug/L	41.006
|	Ba r	137	50.334	38.334	0.007	ug/L	74.661
|	Ba	135	32.667	18.334	0.014	ug/L	11.294
|>	Tb	159	171361.175	181319.786		ug/L	
|	Tl r	205	579.694	605.030	0.001	ug/L	588.741
|	Tl	203	221.672	251.340	-0.004	ug/L	145.071
|	U	238	36.667	58.334	-0.001	ug/L	23.046
⌊	Pb	208	336.340	1051.372	-0.049	ug/L	3.348
⌈	Na	23	90900.714	21235.155	0.015	mg/L	6.640
|	Mg	24	1146.097	585.362	0.000	mg/L	10.975
|	K	39	547796.339	523798.486	0.010	mg/L	8.069
|	Ca	44	10628.111	22549.288	-0.042	mg/L	2.323
|	Fe	54	23541.552	25597.925	0.001	mg/L	83.355
⌊>	Sc-1	45	257896.351	288424.420		ug/L	
	Kr	83	166.337	173.337		ug/L	
	Cl	35	29916325.586	30039050.899		mg/L	
	C	12	341848.509	302795.885		mg/L	
	Y	89	142874.483	154072.595		ug/L	
⌈	Br	79	1204.773	2021.619	-3.063	ug/L	7.252
|	Br	81	12697.937	14369.888	-2.322	ug/L	54.823
⌊>	Ge-1	72	75149.054	81751.619		ug/L	
	Ru	99	1.333	1.333		ug/L	
	Pd	105	1516.498	1525.834		ug/L	
	Ho	165	167649.340	176668.743		ug/L	
	Th	232	312.343	211.005	0.006	ug/L	40.645
⌈	Mo	95	110.002	94.668	0.010	ug/L	28.446
|	Mo	97	65.001	57.334	0.009	ug/L	92.361
|	Mo r	98	159.449	142.338	0.008	ug/L	52.893
|	Rh	103	4.000	20.000		ug/L	
⌊>	In-1	115	143780.447	154619.939		ug/L	
	Ti	47	182.671	293.675		ug/L	
	Li	7	18614.683	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: 30

Sample Description:

Autosampler Position: 41

Sample Date/Time: Friday, February 10, 2012 13:15:10

Dataset File: C:\Elandata\DataSet\EL120210\30.051

Optimization File: C:\Elandata\Optimize\epa.dac

Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth

Calibration File: C:\Elandata\System\EL120210.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

Don't report
Rc 2.27.12

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.333	2.667	-0.004	ug/L	87.031
|>	Li u	6	290490.418	291368.212		ug/L	
⌊	Li	6	288539.682	289860.701		ug/L	
⌈	Be	9	1.333	2.667	-0.003	ug/L	113.920
|	B	11	2267.023	166.337	6.092	ug/L	1.194
|	Al	27	6455.461	1170.101	1.312	ug/L	13.673
|>	Sc	45	253529.157	288424.420		ug/L	
|	V r	51	-1174.652	-914.216	-0.056	ug/L	182.068
|	V u	51	109094.120	82527.835	5.267	ug/L	15.239
|	Cr r	52	9289.370	8490.770	0.327	ug/L	23.597
|	Cr	53	37826.615	29093.771	17.598	ug/L	16.526
|	Mn	55	82680.813	541.691	8.957	ug/L	0.585
|	Co	59	247.673	56.667	0.030	ug/L	1.996
|	Ni r	60	947.735	62.668	0.668	ug/L	1.898
|	Ni	62	86.001	79.335	0.085	ug/L	53.077
|	Cu r	63	1980.275	187.338	0.664	ug/L	4.829
⌊	Cu	65	817.052	104.668	0.579	ug/L	1.743
⌈	Zn r	66	806.050	221.005	0.822	ug/L	5.651
|	Zn	67	2975.272	1722.879	10.479	ug/L	7.215
|	Zn	68	1654.195	293.009	2.559	ug/L	4.475
|>	Ge	72	71483.002	81751.619		ug/L	
|	As r	75	153.115	-6.938	0.165	ug/L	82.037
|	As u	75	8124.379	4749.848	4.312	ug/L	12.361
|	Se r	82	-4.015	-6.841	0.018	ug/L	960.053
|	Se	77	2523.945	1496.171	15.408	ug/L	18.695
⌊	Sr	88	1604587.620	140.003	133.726	ug/L	0.824
⌈	Ag r	107	26.667	40.667	-0.002	ug/L	31.290
|	Ag	109	23.000	41.001	-0.003	ug/L	21.342
|	Cd r	111	106.174	138.023	-0.012	ug/L	83.316
|	Cd	106	-1699.669	-1698.819	-1.901	ug/L	29.459
|	Cd	108	-1770.670	-1805.708	-2.253	ug/L	27.481
|	Cd	114	16.134	18.484	-0.000	ug/L	50408.103
|	Cd u	111	11.333	11.667	0.001	ug/L	295.290
|>	In	115	135472.152	154619.939		ug/L	
|	Sb r	123	71.323	41.122	0.012	ug/L	1.292
⌊	Sb	121	83.001	48.334	0.010	ug/L	14.018

⌈	Sn	118	82.001	168.337	**-0.019**	ug/L	2.991
|	Sn r	120	111.002	228.006	**-0.018**	ug/L	14.070
|	Ba r	137	108683.351	38.334	**58.405**	ug/L	1.235
|	Ba	135	62226.298	18.334	**58.087**	ug/L	0.597
|>	Tb	159	162776.265	181319.786		ug/L	
|	Tl r	205	387.347	605.030	**-0.016**	ug/L	16.871
|	Tl	203	151.003	251.340	**-0.018**	ug/L	26.420
|	U	238	25805.139	58.334	**1.423**	ug/L	0.245
⌊	Pb	208	1348.727	1051.372	**0.032**	ug/L	5.794
⌈	Na	23	45567725.580	21235.155	**9.765**	mg/L	1.846
|	Mg	24	13505574.552	585.362	**4.097**	mg/L	1.149
|	K	39	4982210.151	523798.486	**0.559**	mg/L	1.702
|	Ca	44	4280533.850	22549.288	**19.035**	mg/L	1.477
|	Fe	54	32834.178	25597.925	**0.019**	mg/L	5.396
⌊>	Sc-1	45	253529.157	288424.420		ug/L	
	Kr	83	155.003	173.337		ug/L	
	Cl	35	28583041.388	30039050.899		mg/L	
	C	12	327760.471	302795.885		mg/L	
	Y	89	137091.925	154072.595		ug/L	
⌈	Br	79	1428.147	2021.619	**-1.672**	ug/L	21.042
|	Br	81	12176.088	14369.888	**-1.844**	ug/L	99.964
⌊>	Ge-1	72	71483.002	81751.619		ug/L	
	Ru	99	1.667	1.333		ug/L	
	Pd	105	1505.829	1525.834		ug/L	
	Ho	165	157818.752	176668.743		ug/L	
	Th	232	208.338	211.005	**-0.000**	ug/L	687.725
⌈	Mo	95	1036.080	94.668	**0.478**	ug/L	5.599
|	Mo	97	647.700	57.334	**0.476**	ug/L	6.351
|	Mo r	98	1597.333	142.338	**0.459**	ug/L	2.786
|	Rh	103	54.334	20.000		ug/L	
⌊>	In-1	115	135472.152	154619.939		ug/L	
	Ti	47	408.015	293.675		ug/L	
	Li	7	24053.463	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type	Mass	Out of Limits Message
Ca 44 Upper, S, EEE	Ca 44	Sample greater than CLM3

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Friday, February 10, 2012 13:20:22
Dataset File: C:\Elandata\DataSet\EL120210\QC Std 2.052
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	16486.817	2.667	47.972	ug/L	2.124
|>	Li u	6	289759.066	291368.212		ug/L	
⌊	Li	6	288279.034	289860.701		ug/L	
⌈	Be	9	16486.817	2.667	54.450	ug/L	3.193
|	B	11	19438.401	166.337	54.661	ug/L	2.947
|	Al	27	217000.854	1170.101	51.487	ug/L	1.170
|>	Sc	45	257013.880	288424.420		ug/L	
|	V r	51	348332.529	-914.216	51.084	ug/L	1.930
|	V u	51	449157.396	82527.835	53.343	ug/L	1.948
|	Cr r	52	298387.126	8490.770	51.372	ug/L	1.181
|	Cr	53	67111.825	29093.771	58.309	ug/L	2.559
|	Mn	55	472961.573	541.691	50.785	ug/L	1.108
|	Co	59	328254.788	56.667	49.654	ug/L	2.462
|	Ni r	60	68352.386	62.668	50.459	ug/L	1.911
|	Ni	62	9840.389	79.335	50.114	ug/L	1.868
|	Cu r	63	138154.666	187.338	49.808	ug/L	1.804
⌊	Cu	65	64630.371	104.668	50.852	ug/L	1.944
⌈	Zn r	66	39499.215	221.005	50.966	ug/L	0.772
|	Zn	67	9699.543	1722.879	56.165	ug/L	1.158
|	Zn	68	28972.094	293.009	50.797	ug/L	1.246
|>	Ge	72	73936.382	81751.619		ug/L	
|	As r	75	49575.786	-6.938	49.534	ug/L	0.400
|	As u	75	52855.161	4749.848	50.974	ug/L	0.930
|	Se r	82	5773.637	-6.841	51.470	ug/L	1.823
|	Se	77	5965.926	1496.171	56.511	ug/L	4.657
⌊	Sr	88	636136.426	140.003	51.252	ug/L	1.387
⌈	Ag r	107	250565.419	40.667	49.573	ug/L	1.225
|	Ag	109	240652.222	41.001	50.122	ug/L	1.181
|	Cd r	111	61552.456	138.023	50.579	ug/L	0.829
|	Cd	106	3986.373	-1698.819	49.303	ug/L	2.027
|	Cd	108	2681.262	-1805.708	50.992	ug/L	3.073
|	Cd	114	145299.954	18.484	50.740	ug/L	0.995
|	Cd u	111	61865.752	11.667	50.706	ug/L	0.894
|>	In	115	135312.884	154619.939		ug/L	
|	Sb r	123	152336.004	41.122	50.245	ug/L	1.449
⌊	Sb	121	202155.912	48.334	50.393	ug/L	0.572

⌈	Sn	118	185543.699	168.337	**50.300**	ug/L	0.601
|	Sn r	120	250886.585	228.006	**49.715**	ug/L	0.451
|	Ba r	137	92375.423	38.334	**49.943**	ug/L	1.436
|	Ba	135	53065.003	18.334	**49.831**	ug/L	1.673
|>	Tb	159	161786.333	181319.786		ug/L	
|	Tl r	205	495155.275	605.030	**50.947**	ug/L	0.718
|	Tl	203	205283.222	251.340	**50.537**	ug/L	1.356
|	U	238	938971.770	58.334	**52.202**	ug/L	1.275
⌊	Pb	208	667468.290	1051.372	**52.247**	ug/L	1.494
⌈	Na	23	25049932.568	21235.155	**5.293**	mg/L	2.276
|	Mg	24	17598770.502	585.362	**5.267**	mg/L	1.870
|	K	39	42862710.240	523798.486	**5.174**	mg/L	1.375
|	Ca	44	1027263.030	22549.288	**4.439**	mg/L	1.118
|	Fe	54	3007600.604	25597.925	**5.406**	mg/L	0.412
⌊>	Sc-1	45	257013.880	288424.420		ug/L	
	Kr	83	158.003	173.337		ug/L	
	Cl	35	29379402.338	30039050.899		mg/L	
	C	12	331297.183	302795.885		mg/L	
	Y	89	137473.253	154072.595		ug/L	
⌈	Br	79	12283.589	2021.619	**49.823**	ug/L	1.021
|	Br	81	23731.121	14369.888	**49.466**	ug/L	3.031
⌊>	Ge-1	72	73936.382	81751.619		ug/L	
	Ru	99	16.667	1.333		ug/L	
	Pd	105	1432.148	1525.834		ug/L	
	Ho	165	157427.255	176668.743		ug/L	
	Th	232	864035.736	211.005	**50.059**	ug/L	0.712
⌈	Mo	95	97326.145	94.668	**48.835**	ug/L	0.791
|	Mo	97	61151.774	57.334	**48.717**	ug/L	2.386
|	Mo r	98	156658.042	142.338	**48.815**	ug/L	1.843
|	Rh	103	42.334	20.000		ug/L	
⌊>	In-1	115	135312.884	154619.939		ug/L	
	Ti	47	230.339	293.675		ug/L	
	Li	7	18249.472	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
QC Std 2	Cr	53	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Zn	67	CCV (CLC) is out of limits (+/- 10%)
QC Std 2	Ca	44	CCV (CLC) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 4

Sample Description:
Autosampler Position: 1
Sample Date/Time: Friday, February 10, 2012 13:25:34
Dataset File: C:\Elandata\DataSet\EL120210\QC Std 4.053
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD.mth
Calibration File: C:\Elandata\System\EL120210.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202003

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	2.333	2.667	-0.001	ug/L	391.696
|>	Li u	6	298124.918	291368.212		ug/L	
⌊	Li	6	296613.695	289860.701		ug/L	
⌈	Be	9	2.333	2.667	-0.000	ug/L	2596.154
|	B	11	218.005	166.337	0.193	ug/L	73.535
|	Al	27	934.066	1170.101	-0.028	ug/L	59.519
|>	Sc	45	258994.808	288424.420		ug/L	
|	V r	51	-1001.901	-914.216	-0.026	ug/L	100.823
|	V u	51	98599.863	82527.835	3.451	ug/L	15.065
|	Cr r	52	8439.046	8490.770	0.143	ug/L	24.241
|	Cr	53	34346.554	29093.771	11.546	ug/L	10.124
|	Mn	55	423.349	541.691	-0.007	ug/L	26.314
|	Co	59	43.667	56.667	-0.001	ug/L	69.766
|	Ni r	60	43.334	62.668	-0.009	ug/L	25.239
|	Ni	62	65.334	79.335	-0.030	ug/L	65.893
|	Cu r	63	155.336	187.338	-0.005	ug/L	96.485
⌊	Cu	65	94.668	104.668	0.001	ug/L	73.761
⌈	Zn r	66	158.337	221.005	-0.057	ug/L	16.960
|	Zn	67	2709.838	1722.879	7.621	ug/L	8.788
|	Zn	68	356.679	293.009	0.151	ug/L	14.506
|>	Ge	72	75240.936	81751.619		ug/L	
|	As r	75	-141.565	-6.938	-0.133	ug/L	40.585
|	As u	75	5520.040	4749.848	1.184	ug/L	29.040
|	Se r	82	-6.319	-6.841	-0.000	ug/L	59119.316
|	Se	77	1793.075	1496.171	5.006	ug/L	33.759
⌊	Sr	88	223.672	140.003	0.008	ug/L	12.930
⌈	Ag r	107	65.001	40.667	0.005	ug/L	71.134
|	Ag	109	44.667	41.001	0.001	ug/L	251.631
|	Cd r	111	121.271	138.023	-0.004	ug/L	57.820
|	Cd	106	-1689.887	-1698.819	-1.119	ug/L	23.984
|	Cd	108	-1779.633	-1805.708	-1.391	ug/L	25.227
|	Cd	114	19.021	18.484	0.001	ug/L	193.411
|	Cd u	111	8.667	11.667	-0.002	ug/L	175.583
|>	In	115	141957.643	154619.939		ug/L	
|	Sb r	123	39.831	41.122	0.001	ug/L	289.886
⌊	Sb	121	49.001	48.334	0.001	ug/L	193.027

⌈	Sn	118	148.336	168.337	-0.003	ug/L	257.518
|	Sn r	120	217.339	228.006	-0.000	ug/L	3760.295
|	Ba r	137	40.667	38.334	0.002	ug/L	83.442
|	Ba	135	20.334	18.334	0.002	ug/L	145.010
|>	Tb	159	174087.000	181319.786		ug/L	
|	Tl r	205	1847.589	605.030	0.122	ug/L	49.778
|	Tl	203	732.712	251.340	0.113	ug/L	55.689
|	U	238	102.002	58.334	0.002	ug/L	36.055
L	Pb	208	383.008	1051.372	-0.046	ug/L	8.679
⌈	Na	23	27937.612	21235.155	0.002	mg/L	9.171
|	Mg	24	1518.165	585.362	0.000	mg/L	8.443
|	K	39	492557.132	523798.486	0.003	mg/L	1.725
|	Ca	44	10389.116	22549.288	-0.043	mg/L	1.631
|	Fe	54	21752.753	25597.925	-0.002	mg/L	37.155
L>	Sc-1	45	258994.808	288424.420		ug/L	
	Kr	83	151.670	173.337		ug/L	
	Cl	35	29048675.666	30039050.899		mg/L	
	C	12	287144.959	302795.885		mg/L	
	Y	89	144147.160	154072.595		ug/L	
⌈	Br	79	2227.011	2021.619	1.715	ug/L	9.616
|	Br	81	13293.951	14369.888	0.309	ug/L	590.238
L>	Ge-1	72	75240.936	81751.619		ug/L	
	Ru	99	1.667	1.333		ug/L	
	Pd	105	1503.829	1525.834		ug/L	
	Ho	165	167774.407	176668.743		ug/L	
	Th	232	1027.747	211.005	0.047	ug/L	23.370
⌈	Mo	95	148.670	94.668	0.030	ug/L	34.569
|	Mo	97	101.002	57.334	0.037	ug/L	53.715
|	Mo r	98	238.081	142.338	0.032	ug/L	44.904
|	Rh	103	6.667	20.000		ug/L	
L>	In-1	115	141957.643	154619.939		ug/L	
	Tl	47	147.670	293.675		ug/L	
	Li	7	18634.065	18588.290		mg/L	

QC Out Of Limits (only failed QC will appear below)

Measurement Type		Mass	Out of Limits Message
QC Std 4	V u	51	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cr	53	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Zn	67	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	As u	75	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cd	106	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Cd	108	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Ca	44	IBL (LCB) is out of limits (+/- 0.400ug/L)
QC Std 4	Br	79	IBL (LCB) is out of limits (+/- 0.400ug/L)