ICP-MS METALS Technical Review Checklist

(200.8, 6020)

For Internal Use Only

Site Name: Dimock WO#: 1203001

Analyst: L Costyz Date given to Reviewer: 3/15/12

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

Program (circle): Superfund / RCRA / WPD (NPDES) / 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.

Peer Reviewer signature _____ Date accepted 3/15/12

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:

Report Pb <2. LCV failed at 0.4ppb, USE BS for VSCV.

I:\ASQAB_AT Team\Checklists\ICPMS TRC 2008.doc Jan 2010

11= FB21
12= HW050

On-Demand Data Checklist
(used in addition to routine TRC)
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Parameter: U
Procedure/Method/Reference: 200.8

Site Name: Dimoll WO#: 1203001
Analyst: RLostric

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

Peer Reviewer signature [signature] Date accepted 3/15/12

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:

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Site Name: Dimock Residential Groundwater	**Project #: DAS R33937**

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:

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

The quantitation limits for several samples for tin were qualified estimated "UJ" due to a quality control sample outside of acceptance limits.

The quantitation limit for uranium for sample 1203001-12 was qualified estimated "UJ" due to the absence of a second source quality control sample.

Glycols by HPLC/MS/MS Note:EDIT
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 HPLC/MS/MS (inst id: TQD-LCMSMS) on a Waters Atlantis dC18 3um 2.1 x 150mm column (s/n- 0141301481).
An HPLC/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 HPLC/MS/MS system

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

SVOAs Analysis Note:
All samples were extracted by EPA SW-846 Method 3520C followed by analysis using EPA SW-846 Method 8270D. Refer to notes in case file for additional information regarding the analysis.

Results for sample 1203001-08 are suspect. Although, all QC and lab blanks are acceptable for sample 1203001-08, low levels of certain compounds detected indicate possible glassware contamination.

The multiple TICs found in sample 1203001-01 are likely due to extraction of a pH strip that fell in the jar and was not removed.

For this project one additional compounds is added to the SVOC analysis; 1-methylnaphthalene.

For all sample, quantitation limits for 2,4-dinitrophenol is elevated due to zero percent recovery in the low-spike quality control check (BS1). 2,4-dinitrophenol is qualified UJ due to exceeding calibration limits. For all sample, quantitation limits for pentachlorophenol (35%) and 4,6-dinitro-2-methylphenol (27%) are qualified "UJ" due to low percent recovery in the low-spike quality control check (BS1). Results for most of the mid-level spike quality control check (BS2) are within acceptance limits; therefore, quantitation limits are raised to the mid-level value. In the report, only 16 compounds are reported for blank spike quality control check samples. Quality control information about the additional spiked compounds is available in the case file.

For 1203001-04, the matrix spike duplicate exceeded quality control requirements for hexachloroethane and is qualified "UJ".

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Report Narrative

Results for a limited number of parameters found in all samples have been qualified "B" because of contamination found in either the method blank, field blank, or equipment blank.

VOA Analysis Note:
Acrylonitrile was analyzed on-demand using CLP equivalent methodology. This analyte does not appear in the data tables or the QC summary and all data for this compound is summarized here. Acrylonitrile was not detected in any of the samples above a quantitation limit of 2 ug/L. A four point curve was analyzed (2, 5, 10 and 20 ug/L). The samples were preserved to a pH<2 with HCl. A low level second source blank spike analyzed at a concentration of 2 ug/L had a recovery of 99%. A mid level second source blank spike analyzed at a concentration of 10 ug/L had a recovery of 101%. Matrix spike/matrix spike duplicate analysis was performed for sample 1203001-04. Matrix spike recoveries were 102% and 94%.

2-Chloroethylvinyl ether is not included in the analysis. 2-chloroethylvinyl ether breaks down in acidified samples.

TSS Analysis Note:
All required instrument QC was run and was within the required criteria.

TDS Analysis Note:
All required instrument QC was run and was within the required criteria.

Nitrite/Nitrate and Total Nitrogen Analysis Note: EDIT
Samples were run as an on-demand analysis.

Anions Analysis Note: EDIT
All required instrument QC was run and was within the required criteria.

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Site Name: Dimock Residential Groundwater **Project #: DAS R33937**

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Matrix	Date Sampled	Date Received
FB19	1203001-01	Water	3/05/12 09:36	3/06/12 11:12
HW60	1203001-02	Drinking Water	3/05/12 12:25	3/06/12 11:12
HW56	1203001-04	Drinking Water	3/05/12 16:54	3/07/12 11:00
FB20	1203001-06	Water	3/06/12 14:00	3/08/12 10:45
HW61-P	1203001-07	Drinking Water	3/06/12 16:00	3/08/12 10:45
HW61z	1203001-08	Drinking Water	3/06/12 15:42	3/08/12 10:45
HW61	1203001-09	Drinking Water	3/06/12 15:42	3/08/12 10:45
FB21	1203001-11	Water	3/08/12 13:38	3/09/12 12:05
HW50	1203001-12	Drinking Water	3/08/12 15:09	3/09/12 12:05

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Site Name: Dimock Residential Groundwater
Project #: DAS R33937
Station ID: FB19
Lab ID: 1203001-01
Sample Matrix: Water
Date Collected: 03/05/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	03/12/12	03/14/12 13:00	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	03/12/12	03/14/12 13:00	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	03/12/12	03/14/12 13:00	EPA 200.8/R3QA116
Barium	U		10.0	2.5	03/12/12	03/14/12 13:00	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	03/12/12	03/14/12 13:00	EPA 200.8/R3QA116
Boron	U		50.0	1	03/12/12	03/13/12 10:23	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	03/12/12	03/14/12 13:00	EPA 200.8/R3QA116
Calcium	U		500	1	03/12/12	03/13/12 10:23	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	03/12/12	03/14/12 13:00	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	03/12/12	03/14/12 13:00	EPA 200.8/R3QA116
Copper	U		2.0	2.5	03/12/12	03/14/12 13:00	EPA 200.8/R3QA116
Iron	U		100	1	03/12/12	03/13/12 10:23	EPA 200.7/R3QA159
Lead	U		2.0	2.5	03/12/12	03/14/12 13:00	EPA 200.8/R3QA116
Lithium	U		200	1	03/12/12	03/13/12 10:23	EPA 200.7/R3QA159
Magnesium	U		500	1	03/12/12	03/13/12 10:23	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	03/12/12	03/14/12 13:00	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	03/12/12	03/14/12 13:00	EPA 200.8/R3QA116
Potassium	U		2000	1	03/12/12	03/13/12 10:23	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	03/12/12	03/14/12 13:00	EPA 200.8/R3QA116
Silver	U		1.0	2.5	03/12/12	03/14/12 13:00	EPA 200.8/R3QA116
Sodium	U		1000	1	03/12/12	03/13/12 10:23	EPA 200.7/R3QA159
Strontium	U		200	1	03/12/12	03/13/12 10:23	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	03/12/12	03/14/12 13:00	EPA 200.8/R3QA116
Tin	U		200	1	03/12/12	03/13/12 10:23	EPA 200.7/R3QA159
Titanium	U		200	1	03/12/12	03/13/12 10:23	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	03/12/12	03/14/12 13:00	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	03/12/12	03/14/12 13:00	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	03/12/12	03/14/12 13:00	EPA 200.8/R3QA116

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Site Name: Dimock Residential Groundwater
Project #: DAS R33937
Station ID: HW60
Lab ID: 1203001-02
Sample Matrix: Drinking Water
Date Collected: 03/05/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	03/12/12	03/14/12 13:10	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	03/12/12	03/14/12 13:10	EPA 200.8/R3QA116
Arsenic	9.3		1.0	2.5	03/12/12	03/14/12 13:10	EPA 200.8/R3QA116
Barium	1650		200	1	03/12/12	03/13/12 10:27	EPA 200.7/R3QA159
Beryllium	U		1.0	2.5	03/12/12	03/14/12 13:10	EPA 200.8/R3QA116
Boron	U		50.0	1	03/12/12	03/13/12 10:27	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	03/12/12	03/14/12 13:10	EPA 200.8/R3QA116
Calcium	29800		500	1	03/12/12	03/13/12 10:27	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	03/12/12	03/14/12 13:10	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	03/12/12	03/14/12 13:10	EPA 200.8/R3QA116
Copper	3.0		2.0	2.5	03/12/12	03/14/12 13:10	EPA 200.8/R3QA116
Iron	754		100	1	03/12/12	03/13/12 10:27	EPA 200.7/R3QA159
Lead	U		2.0	2.5	03/12/12	03/14/12 13:10	EPA 200.8/R3QA116
Lithium	47.7		25.0	1	03/12/12	03/13/12 10:27	EPA 200.7/R3QA159
Magnesium	7490		500	1	03/12/12	03/13/12 10:27	EPA 200.7/R3QA159
Manganese	217		1.0	2.5	03/12/12	03/14/12 13:10	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	03/12/12	03/14/12 13:10	EPA 200.8/R3QA116
Potassium	U		2000	1	03/12/12	03/13/12 10:27	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	03/12/12	03/14/12 13:10	EPA 200.8/R3QA116
Silver	U		1.0	2.5	03/12/12	03/14/12 13:10	EPA 200.8/R3QA116
Sodium	20300		1000	1	03/12/12	03/13/12 10:27	EPA 200.7/R3QA159
Strontium	865		200	1	03/12/12	03/13/12 10:27	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	03/12/12	03/14/12 13:10	EPA 200.8/R3QA116
Tin	U		200	1	03/12/12	03/13/12 10:27	EPA 200.7/R3QA159
Titanium	U		200	1	03/12/12	03/13/12 10:27	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	03/12/12	03/14/12 13:10	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	03/12/12	03/14/12 13:10	EPA 200.8/R3QA116
Zinc	2.6		2.0	2.5	03/12/12	03/14/12 13:10	EPA 200.8/R3QA116

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Site Name: Dimock Residential Groundwater
Project #: DAS R33937
Station ID: FB20
Lab ID: 1203001-06
Sample Matrix: Water
Date Collected: 03/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	03/12/12	03/14/12 13:26	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	03/12/12	03/14/12 13:26	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	03/12/12	03/14/12 13:26	EPA 200.8/R3QA116
Barium	U		10.0	2.5	03/12/12	03/14/12 13:26	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	03/12/12	03/14/12 13:26	EPA 200.8/R3QA116
Boron	U		50.0	1	03/12/12	03/13/12 10:41	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	03/12/12	03/14/12 13:26	EPA 200.8/R3QA116
Calcium	U		500	1	03/12/12	03/13/12 10:41	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	03/12/12	03/14/12 13:26	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	03/12/12	03/14/12 13:26	EPA 200.8/R3QA116
Copper	U		2.0	2.5	03/12/12	03/14/12 13:26	EPA 200.8/R3QA116
Iron	U		100	1	03/12/12	03/13/12 10:41	EPA 200.7/R3QA159
Lead	U		2.0	2.5	03/12/12	03/14/12 13:26	EPA 200.8/R3QA116
Lithium	U		25.0	1	03/12/12	03/13/12 10:41	EPA 200.7/R3QA159
Magnesium	U		500	1	03/12/12	03/13/12 10:41	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	03/12/12	03/14/12 13:26	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	03/12/12	03/14/12 13:26	EPA 200.8/R3QA116
Potassium	U		2000	1	03/12/12	03/13/12 10:41	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	03/12/12	03/14/12 13:26	EPA 200.8/R3QA116
Silver	U		1.0	2.5	03/12/12	03/14/12 13:26	EPA 200.8/R3QA116
Sodium	U		1000	1	03/12/12	03/13/12 10:41	EPA 200.7/R3QA159
Strontium	U		200	1	03/12/12	03/13/12 10:41	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	03/12/12	03/14/12 13:26	EPA 200.8/R3QA116
Tin	U		200	1	03/12/12	03/13/12 10:41	EPA 200.7/R3QA159
Titanium	U		200	1	03/12/12	03/13/12 10:41	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	03/12/12	03/14/12 13:26	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	03/12/12	03/14/12 13:26	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	03/12/12	03/14/12 13:26	EPA 200.8/R3QA116

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Site Name: Dimock Residential Groundwater
Station ID: HW56
Sample Matrix: Drinking Water
Project #: DAS R33937
Lab ID: 1203001-04
Date Collected: 03/05/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	03/12/12	03/14/12 13:21	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	03/12/12	03/14/12 13:21	EPA 200.8/R3QA116
Arsenic	1.5		1.0	2.5	03/12/12	03/14/12 13:21	EPA 200.8/R3QA116
Barium	531		200	1	03/12/12	03/13/12 10:38	EPA 200.7/R3QA159
Beryllium	U		1.0	2.5	03/12/12	03/14/12 13:21	EPA 200.8/R3QA116
Boron	U		50.0	1	03/12/12	03/13/12 10:38	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	03/12/12	03/14/12 13:21	EPA 200.8/R3QA116
Calcium	22600		500	1	03/12/12	03/13/12 10:38	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	03/12/12	03/14/12 13:21	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	03/12/12	03/14/12 13:21	EPA 200.8/R3QA116
Copper	2.4		2.0	2.5	03/12/12	03/14/12 13:21	EPA 200.8/R3QA116
Iron	171		100	1	03/12/12	03/13/12 10:38	EPA 200.7/R3QA159
Lead	U		2.0	2.5	03/12/12	03/14/12 13:21	EPA 200.8/R3QA116
Lithium	30.5		25.0	1	03/12/12	03/13/12 10:38	EPA 200.7/R3QA159
Magnesium	3550		500	1	03/12/12	03/13/12 10:38	EPA 200.7/R3QA159
Manganese	90.7		1.0	2.5	03/12/12	03/14/12 13:21	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	03/12/12	03/14/12 13:21	EPA 200.8/R3QA116
Potassium	U		2000	1	03/12/12	03/13/12 10:38	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	03/12/12	03/14/12 13:21	EPA 200.8/R3QA116
Silver	U		1.0	2.5	03/12/12	03/14/12 13:21	EPA 200.8/R3QA116
Sodium	10600		1000	1	03/12/12	03/13/12 10:38	EPA 200.7/R3QA159
Strontium	369		200	1	03/12/12	03/13/12 10:38	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	03/12/12	03/14/12 13:21	EPA 200.8/R3QA116
Tin	U		200	1	03/12/12	03/13/12 10:38	EPA 200.7/R3QA159
Titanium	U		200	1	03/12/12	03/13/12 10:38	EPA 200.7/R3QA159
Uranium	1.0		1.0	2.5	03/12/12	03/14/12 13:21	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	03/12/12	03/14/12 13:21	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	03/12/12	03/14/12 13:21	EPA 200.8/R3QA116

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Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
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DRAFT

Site Name: Dimock Residential Groundwater
Station ID: HW61-P
Sample Matrix: Drinking Water
Project #: DAS R33937
Lab ID: 1203001-07
Date Collected: 03/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	03/12/12	03/14/12 13:31	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	03/12/12	03/14/12 13:31	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	03/12/12	03/14/12 13:31	EPA 200.8/R3QA116
Barium	73.1		10.0	2.5	03/12/12	03/14/12 13:31	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	03/12/12	03/14/12 13:31	EPA 200.8/R3QA116
Boron	U		50.0	1	03/12/12	03/13/12 10:45	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	03/12/12	03/14/12 13:31	EPA 200.8/R3QA116
Calcium	32500		500	1	03/12/12	03/13/12 10:45	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	03/12/12	03/14/12 13:31	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	03/12/12	03/14/12 13:31	EPA 200.8/R3QA116
Copper	46.7		2.0	2.5	03/12/12	03/14/12 13:31	EPA 200.8/R3QA116
Iron	U		100	1	03/12/12	03/13/12 10:45	EPA 200.7/R3QA159
Lead	U		2.0	2.5	03/12/12	03/14/12 13:31	EPA 200.8/R3QA116
Lithium	U		25.0	1	03/12/12	03/13/12 10:45	EPA 200.7/R3QA159
Magnesium	6990		500	1	03/12/12	03/13/12 10:45	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	03/12/12	03/14/12 13:31	EPA 200.8/R3QA116
Nickel	1.1		1.0	2.5	03/12/12	03/14/12 13:31	EPA 200.8/R3QA116
Potassium	U		2000	1	03/12/12	03/13/12 10:45	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	03/12/12	03/14/12 13:31	EPA 200.8/R3QA116
Silver	U		1.0	2.5	03/12/12	03/14/12 13:31	EPA 200.8/R3QA116
Sodium	16800		1000	1	03/12/12	03/13/12 10:45	EPA 200.7/R3QA159
Strontium	U		200	1	03/12/12	03/13/12 10:45	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	03/12/12	03/14/12 13:31	EPA 200.8/R3QA116
Tin	U		200	1	03/12/12	03/13/12 10:45	EPA 200.7/R3QA159
Titanium	U		200	1	03/12/12	03/13/12 10:45	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	03/12/12	03/14/12 13:31	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	03/12/12	03/14/12 13:31	EPA 200.8/R3QA116
Zinc	11.0		2.0	2.5	03/12/12	03/14/12 13:31	EPA 200.8/R3QA116

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Site Name: Dimock Residential Groundwater
Project #: DAS R33937
Station ID: HW61z
Lab ID: 1203001-08
Sample Matrix: Drinking Water
Date Collected: 03/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	03/12/12	03/14/12 13:36	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	03/12/12	03/14/12 13:36	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	03/12/12	03/14/12 13:36	EPA 200.8/R3QA116
Barium	75.1		10.0	2.5	03/12/12	03/14/12 13:36	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	03/12/12	03/14/12 13:36	EPA 200.8/R3QA116
Boron	U		50.0	1	03/12/12	03/13/12 10:56	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	03/12/12	03/14/12 13:36	EPA 200.8/R3QA116
Calcium	33000		500	1	03/12/12	03/13/12 10:56	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	03/12/12	03/14/12 13:36	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	03/12/12	03/14/12 13:36	EPA 200.8/R3QA116
Copper	22.4		2.0	2.5	03/12/12	03/14/12 13:36	EPA 200.8/R3QA116
Iron	U		100	1	03/12/12	03/13/12 10:56	EPA 200.7/R3QA159
Lead	U		2.0	2.5	03/12/12	03/14/12 13:36	EPA 200.8/R3QA116
Lithium	U		25.0	1	03/12/12	03/13/12 10:56	EPA 200.7/R3QA159
Magnesium	7200		500	1	03/12/12	03/13/12 10:56	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	03/12/12	03/14/12 13:36	EPA 200.8/R3QA116
Nickel	1.2		1.0	2.5	03/12/12	03/14/12 13:36	EPA 200.8/R3QA116
Potassium	U		2000	1	03/12/12	03/13/12 10:56	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	03/12/12	03/14/12 13:36	EPA 200.8/R3QA116
Silver	U		1.0	2.5	03/12/12	03/14/12 13:36	EPA 200.8/R3QA116
Sodium	16400		1000	1	03/12/12	03/13/12 10:56	EPA 200.7/R3QA159
Strontium	U		200	1	03/12/12	03/13/12 10:56	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	03/12/12	03/14/12 13:36	EPA 200.8/R3QA116
Tin	U	UJ	200	1	03/12/12	03/13/12 10:56	EPA 200.7/R3QA159
Titanium	U		200	1	03/12/12	03/13/12 10:56	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	03/12/12	03/14/12 13:36	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	03/12/12	03/14/12 13:36	EPA 200.8/R3QA116
Zinc	16.9		2.0	2.5	03/12/12	03/14/12 13:36	EPA 200.8/R3QA116

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Site Name: Dimock Residential Groundwater
Project #: DAS R33937
Station ID: HW61
Lab ID: 1203001-09
Sample Matrix: Drinking Water
Date Collected: 03/06/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	03/12/12	03/14/12 13:41	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	03/12/12	03/14/12 13:41	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	03/12/12	03/14/12 13:41	EPA 200.8/R3QA116
Barium	68.4		10.0	2.5	03/12/12	03/14/12 13:41	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	03/12/12	03/14/12 13:41	EPA 200.8/R3QA116
Boron	U		50.0	1	03/12/12	03/13/12 11:00	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	03/12/12	03/14/12 13:41	EPA 200.8/R3QA116
Calcium	31900		500	1	03/12/12	03/13/12 11:00	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	03/12/12	03/14/12 13:41	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	03/12/12	03/14/12 13:41	EPA 200.8/R3QA116
Copper	20.5		2.0	2.5	03/12/12	03/14/12 13:41	EPA 200.8/R3QA116
Iron	U		100	1	03/12/12	03/13/12 11:00	EPA 200.7/R3QA159
Lead	U		2.0	2.5	03/12/12	03/14/12 13:41	EPA 200.8/R3QA116
Lithium	U		25.0	1	03/12/12	03/13/12 11:00	EPA 200.7/R3QA159
Magnesium	7040		500	1	03/12/12	03/13/12 11:00	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	03/12/12	03/14/12 13:41	EPA 200.8/R3QA116
Nickel	1.0		1.0	2.5	03/12/12	03/14/12 13:41	EPA 200.8/R3QA116
Potassium	U		2000	1	03/12/12	03/13/12 11:00	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	03/12/12	03/14/12 13:41	EPA 200.8/R3QA116
Silver	U		1.0	2.5	03/12/12	03/14/12 13:41	EPA 200.8/R3QA116
Sodium	16100		1000	1	03/12/12	03/13/12 11:00	EPA 200.7/R3QA159
Strontium	U		200	1	03/12/12	03/13/12 11:00	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	03/12/12	03/14/12 13:41	EPA 200.8/R3QA116
Tin	U	UJ	200	1	03/12/12	03/13/12 11:00	EPA 200.7/R3QA159
Titanium	U		200	1	03/12/12	03/13/12 11:00	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	03/12/12	03/14/12 13:41	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	03/12/12	03/14/12 13:41	EPA 200.8/R3QA116
Zinc	15.5		2.0	2.5	03/12/12	03/14/12 13:41	EPA 200.8/R3QA116

DRAFT

Site Name: Dimock Residential Groundwater
Station ID: FB21
Sample Matrix: Water
Project #: DAS R33937
Lab ID: 1203001-11
Date Collected: 03/08/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	03/12/12	03/14/12 13:51	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	03/12/12	03/14/12 13:51	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	03/12/12	03/14/12 13:51	EPA 200.8/R3QA116
Barium	U		10.0	2.5	03/12/12	03/14/12 13:51	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	03/12/12	03/14/12 13:51	EPA 200.8/R3QA116
Boron	U		50.0	1	03/12/12	03/13/12 11:07	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	03/12/12	03/14/12 13:51	EPA 200.8/R3QA116
Calcium	U		500	1	03/12/12	03/13/12 11:07	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	03/12/12	03/14/12 13:51	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	03/12/12	03/14/12 13:51	EPA 200.8/R3QA116
Copper	U		2.0	2.5	03/12/12	03/14/12 13:51	EPA 200.8/R3QA116
Iron	U		100	1	03/12/12	03/13/12 11:07	EPA 200.7/R3QA159
Lead	U		2.0	2.5	03/12/12	03/14/12 13:51	EPA 200.8/R3QA116
Lithium	U		25.0	1	03/12/12	03/13/12 11:07	EPA 200.7/R3QA159
Magnesium	U		500	1	03/12/12	03/13/12 11:07	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	03/12/12	03/14/12 13:51	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	03/12/12	03/14/12 13:51	EPA 200.8/R3QA116
Potassium	U		2000	1	03/12/12	03/13/12 11:07	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	03/12/12	03/14/12 13:51	EPA 200.8/R3QA116
Silver	U		1.0	2.5	03/12/12	03/14/12 13:51	EPA 200.8/R3QA116
Sodium	U		1000	1	03/12/12	03/13/12 11:07	EPA 200.7/R3QA159
Strontium	U		200	1	03/12/12	03/13/12 11:07	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	03/12/12	03/14/12 13:51	EPA 200.8/R3QA116
Tin	U	UJ	200	1	03/12/12	03/13/12 11:07	EPA 200.7/R3QA159
Titanium	U		200	1	03/12/12	03/13/12 11:07	EPA 200.7/R3QA159
Uranium	U		1.0	2.5	03/12/12	03/14/12 13:51	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	03/12/12	03/14/12 13:51	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	03/12/12	03/14/12 13:51	EPA 200.8/R3QA116

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Region 3 Environmental Science Center
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Site Name: Dimock Residential Groundwater
Station ID: HW50
Sample Matrix: Drinking Water
Project #: DAS R33937
Lab ID: 1203001-12
Date Collected: 03/08/2012

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		30.0	2.5	03/12/12	03/15/12 13:56	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	03/12/12	03/15/12 13:56	EPA 200.8/R3QA116
Arsenic	1.9		1.0	2.5	03/12/12	03/15/12 13:56	EPA 200.8/R3QA116
Barium	238		10.0	2.5	03/12/12	03/15/12 13:56	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	03/12/12	03/15/12 13:56	EPA 200.8/R3QA116
Boron	U		50.0	1	03/12/12	03/13/12 11:11	EPA 200.7/R3QA159
Cadmium	U		1.0	2.5	03/12/12	03/15/12 13:56	EPA 200.8/R3QA116
Calcium	30200		500	1	03/12/12	03/13/12 11:11	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	03/12/12	03/15/12 13:56	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	03/12/12	03/15/12 13:56	EPA 200.8/R3QA116
Copper	U		2.0	2.5	03/12/12	03/15/12 13:56	EPA 200.8/R3QA116
Iron	U		100	1	03/12/12	03/13/12 11:11	EPA 200.7/R3QA159
Lead	U		2.0	2.5	03/12/12	03/15/12 13:56	EPA 200.8/R3QA116
Lithium	U		25.0	1	03/12/12	03/13/12 11:11	EPA 200.7/R3QA159
Magnesium	8330		500	1	03/12/12	03/13/12 11:11	EPA 200.7/R3QA159
Manganese	27.9		1.0	2.5	03/12/12	03/15/12 13:56	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	03/12/12	03/15/12 13:56	EPA 200.8/R3QA116
Potassium	U		2000	1	03/12/12	03/13/12 11:11	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	03/12/12	03/15/12 13:56	EPA 200.8/R3QA116
Silver	U		1.0	2.5	03/12/12	03/15/12 13:56	EPA 200.8/R3QA116
Sodium	10100		1000	1	03/12/12	03/13/12 11:11	EPA 200.7/R3QA159
Strontium	1020		200	1	03/12/12	03/13/12 11:11	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	03/12/12	03/15/12 13:56	EPA 200.8/R3QA116
Tin	U	UJ	200	1	03/12/12	03/13/12 11:11	EPA 200.7/R3QA159
Titanium	U		200	1	03/12/12	03/13/12 11:11	EPA 200.7/R3QA159
Uranium	1.2	UJ	1.0	2.5	03/12/12	03/15/12 13:56	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	03/12/12	03/15/12 13:56	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	03/12/12	03/15/12 13:56	EPA 200.8/R3QA116

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Site Name: Dimock Residential Groundwater **Project #: DAS R33937**

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BC21203 - Metals Water Prep										
Blank (BC21203-BLK1)				Prepared: 03/12/12 10:38	Analyzed: 03/14/12 12:50					
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 (BC21203-BLK2)				Prepared: 03/12/12 10:38	Analyzed: 03/13/12 10:16					
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	25.0	"							
Strontium	U	200	"							
Tin	U	200	"							
Titanium	U	200	"							

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Site Name: **Dimock Residential Groundwater** **Project #:** **DAS R33937**

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BC21203 - Metals Water Prep										
LCS (BC21203-BS1)				Prepared: 03/12/12 10:38			Analyzed: 03/14/12 12:55			
Antimony	54.1183	2.0	ug/L	50.000		108	85-115			
Arsenic	50.7513	1.0	"	50.000		102	85-115			
Barium	200.931	10.0	"	200.00		100	85-115			
Beryllium	5.14209	1.0	"	5.0000		103	85-115			
Cadmium	4.85153	1.0	"	5.0000		97	85-115			
Chromium	52.7012	2.0	"	50.000		105	85-115			
Cobalt	53.7673	1.0	"	50.000		108	85-115			
Copper	54.0380	2.0	"	50.000		108	85-115			
Lead	51.0658	1.0	"	50.000		102	85-115			
Manganese	52.5564	1.0	"	50.000		105	85-115			
Nickel	52.1921	1.0	"	50.000		104	85-115			
Selenium	49.6623	5.0	"	50.000		99	85-115			
Silver	5.68818	1.0	"	5.0000		114	85-115			
Thallium	49.3160	1.0	"	50.000		99	85-115			
Vanadium	51.5711	5.0	"	50.000		103	85-115			
Zinc	51.6573	2.0	"	50.000		103	85-115			
Aluminum	215.914	30.0	"	200.00		108	85-115			
Uranium	51.6572	1.0	"	50.000		103	85-115			
LCS (BC21203-BS2)				Prepared: 03/12/12 10:38			Analyzed: 03/13/12 10:19			
Calcium	9843.20	500	ug/L	10000		98	85-115			
Iron	5047.33	100	"	5000.0		101	85-115			
Magnesium	10394.8	500	"	10000		104	85-115			
Potassium	20853.2	2000	"	20000		104	85-115			
Sodium	9691.60	1000	"	10000		97	85-115			
Barium	1972.54	200	"	2000.0		99	85-115			
Boron	513.817	50.0	"	500.00		103	85-115			
Lithium	549.034	25.0	"	500.00		110	85-115			
Strontium	503.189	200	"	500.00		101	85-115			
Tin	498.456	200	"	500.00		100	85-115			
Titanium	525.781	200	"	500.00		105	85-115			

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Site Name: Dimock Residential Groundwater **Project #:** DAS R33937

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BC21203 - Metals Water Prep										
Duplicate (BC21203-DUP1)		**Source: 1203001-02**		Prepared: 03/12/12 10:38		Analyzed: 03/14/12 13:05				
Antimony	0.024162	2.0	ug/L		0.025025			4	20	
Arsenic	9.60953	1.0	"		9.29011			3	20	
Barium	1730.41	10.0	"		1714.48			0.9	20	
Beryllium	U	1.0	"		0.006260				20	
Cadmium	U	1.0	"		U				20	
Chromium	U	2.0	"		U				20	
Cobalt	0.054892	1.0	"		0.053888			2	20	
Copper	3.10982	2.0	"		3.02668			3	20	
Lead	U	1.0	"		U				20	
Manganese	214.964	1.0	"		216.841			0.9	20	
Nickel	0.684742	1.0	"		0.845140			21	20	D
Selenium	0.300910	5.0	"		0.287040			5	20	
Silver	U	1.0	"		U				20	
Thallium	U	1.0	"		U				20	
Vanadium	0.365662	5.0	"		0.455582			22	20	D
Zinc	2.93056	2.0	"		2.60657			12	20	
Aluminum	2.26438	30.0	"		2.96237			27	20	D
Uranium	0.010888	1.0	"		0.006488			51	20	D
Duplicate (BC21203-DUP2)		**Source: 1203001-02**		Prepared: 03/12/12 10:38		Analyzed: 03/13/12 10:30				
Calcium	29062.4	500	ug/L		29848.9			3	20	
Iron	739.691	100	"		754.164			2	20	
Magnesium	7360.94	500	"		7487.38			2	20	
Potassium	1331.16	2000	"		1354.07			2	20	
Sodium	19929.4	1000	"		20306.4			2	20	
Barium	1616.31	200	"		1653.15			2	20	
Boron	48.5396	50.0	"		49.8622			3	20	
Lithium	44.4354	25.0	"		47.6915			7	20	
Strontium	847.778	200	"		864.608			2	20	
Tin	3.52864	200	"		U			200	20	D
Titanium	U	200	"		U				20	

DRAFT

Site Name: **Dimock Residential Groundwater** **Project #:** **DAS R33937**

QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BC21203 - Metals Water Prep										
Matrix Spike (BC21203-MS1)		**Source: 1203001-09**		Prepared: 03/12/12 10:38		Analyzed: 03/14/12 13:46				
Antimony	53.3540	2.0	ug/L	50.000	0.014818	107	70-130			
Arsenic	48.0864	1.0	"	50.000	U	96	70-130			
Barium	260.787	10.0	"	200.00	68.4151	96	70-130			
Beryllium	5.49421	1.0	"	5.0000	0.013345	110	70-130			
Cadmium	4.75154	1.0	"	5.0000	U	95	70-130			
Chromium	51.1117	2.0	"	50.000	0.688805	101	70-130			
Cobalt	50.1582	1.0	"	50.000	0.074605	100	70-130			
Copper	69.8670	2.0	"	50.000	20.4795	99	70-130			
Lead	50.7791	1.0	"	50.000	0.558395	100	70-130			
Manganese	50.2177	1.0	"	50.000	0.024240	100	70-130			
Nickel	48.9506	1.0	"	50.000	1.01036	96	70-130			
Selenium	48.1231	5.0	"	50.000	0.051035	96	70-130			
Silver	5.43220	1.0	"	5.0000	U	109	70-130			
Thallium	48.4561	1.0	"	50.000	U	97	70-130			
Vanadium	50.7567	5.0	"	50.000	U	102	70-130			
Zinc	64.3924	2.0	"	50.000	15.5133	98	70-130			
Aluminum	217.519	30.0	"	200.00	9.82136	104	70-130			
Uranium	52.1318	1.0	"	50.000	0.463778	103	70-130			
Matrix Spike (BC21203-MS2)		**Source: 1203001-09**		Prepared: 03/12/12 10:38		Analyzed: 03/13/12 11:04				
Calcium	43665.4	500	ug/L	10000	31895.0	118	70-130			
Iron	5177.21	100	"	5000.0	9.56564	103	70-130			
Magnesium	18156.8	500	"	10000	7035.23	111	70-130			
Potassium	22771.8	2000	"	20000	1353.03	107	70-130			
Sodium	27487.1	1000	"	10000	16089.3	114	70-130			
Boron	545.988	50.0	"	500.00	11.4470	107	70-130			
Lithium	567.166	25.0	"	500.00	1.94099	113	70-130			
Strontium	576.180	200	"	500.00	65.9451	102	70-130			
Tin	494.595	200	"	500.00	0.822522	99	70-130			
Titanium	527.638	200	"	500.00	U	106	70-130			

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Site Name: Dimock Residential Groundwater **Project #: DAS R33937**

Notes and Definitions

UJ The analyte was not detected at or above the quantitation limit. The quantitation limit 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.

%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.

DRAFT

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
	Total Metals by 200.7	(Water)	Special Units: (ug/L)
1203001-08	Total Metals by 200.7	Tin	UJ: The analyte was not detected at or above the quantitation limit. The quantitation limit is an estimate.
1203001-09	Total Metals by 200.7	Tin	UJ: The analyte was not detected at or above the quantitation limit. The quantitation limit is an estimate.
1203001-11	Total Metals by 200.7	Tin	UJ: The analyte was not detected at or above the quantitation limit. The quantitation limit is an estimate.
1203001-12	Total Metals by 200.7	Tin	UJ: The analyte was not detected at or above the quantitation limit. The quantitation limit is an estimate.
1203001-12	Total Metals by 200.8	Uranium	UJ: The analyte was not detected at or above the quantitation limit. The quantitation limit is an estimate.
BC21203-DUP1	Total Metals by 200.8	Aluminum	Exceeds RPD control limit
BC21203-DUP1	Total Metals by 200.8	Nickel	Exceeds RPD control limit
BC21203-DUP1	Total Metals by 200.8	Uranium	Exceeds RPD control limit
BC21203-DUP1	Total Metals by 200.8	Vanadium	Exceeds RPD control limit
BC21203-DUP2	Total Metals by 200.7	Tin	Exceeds RPD control limit

ICP-MS ELAN 6100 RUN LOG

Computer Name: D0303SLABF103A
Dataset File Path: C:\Elandata\Dataset\EL120216\
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 DIMOCK.mth
Report Date/Time: Wednesday, March 14, 2012 14:27:41
Batch ID: WO# 1203001
Analyst: R.COSTAS
Site: DIMOCK
Inst Run: EL120314

R Costas 3.14.12

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

Don't report 1203001-12 RC 4.2.12

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

The Dataset

Batch ID	Description	Sample ID	Date and Time	Samp. File Name	Read Type
		Blank	08:24:28 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\Blank.001	Blank
		Blank	08:29:52 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\Blank.002	Blank
		Standard 1	08:35:04 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\Standard 1.003	Standard #1
		Standard 2	08:40:17 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\Standard 2.004	Standard #2
		Standard 3	08:45:31 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\Standard 3.005	Standard #3
		QC Std 2	08:50:55 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 2.006	QC Std #2
		QC Std 4	08:56:07 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 4.007	QC Std #4
		QC Std 5	09:01:22 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 5.008	QC Std #5
		QC Std 6	09:06:35 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 6.009	QC Std #6
		QC Std 7	09:11:31 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 7.010	QC Std #7
		BB21502-BLK1	09:17:15 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\BB21502-BLK1.011	Sample
		BB21502-BS1	09:22:35 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\BB21502-BS1.012	Sample
		1202005-01	09:27:56 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-01.013	Sample
		1202005-02	09:33:17 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-02.014	Sample
		1202005-03	09:38:39 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-03.015	Sample
		1202005-04	09:44:01 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-04.016	Sample
		1202005-07	09:52:32 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-07.017	Sample
		1202005-08	09:57:51 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-08.018	Sample
		BB21502-DUP1	10:03:07 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\BB21502-DUP1.019	Sample
		1202005-09	10:08:23 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-09.020	Sample
		1202005-10	10:13:39 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-10.021	Sample
		BB21502-MS1	10:18:56 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\BB21502-MS1.022	Sample
		BB21505-BLK1	10:24:14 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\BB21505-BLK1.023	Sample
		BB21505-BS1	10:29:32 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\BB21505-BS1.024	Sample
		1202005-11	10:34:51 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-11.025	Sample
		1202005-12	10:40:10 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-12.026	Sample
		QC Std 2	10:45:23 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 2.027	QC Std #2
		QC Std 4	10:50:36 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 4.028	QC Std #4
		1202005-13	10:55:54 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-13.029	Sample
		BB21505-DUP1	11:02:44 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\BB21505-DUP1.030	Sample
		1202005-14	11:08:05 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-14.031	Sample
		BB21505-MS1	11:13:26 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\BB21505-MS1.032	Sample
		1202005-15	11:18:47 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-15.033	Sample
		1202005-16	11:24:09 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-16.034	Sample
		1202005-17	11:29:31 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-17.035	Sample
		1202005-18	11:34:50 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-18.036	Sample
		BB21505-MS3	11:40:05 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\BB21505-MS3.037	Sample

Don't use RC 3.14.12

1202005-24	11:45:21 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-24.038	Sample
1202005-25	11:50:37 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-25.039	Sample
QC Std 2	11:55:50 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 2.040	QC Std #2
QC Std 4	12:01:02 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 4.041	QC Std #4
1202005-26	12:06:19 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-26.042	Sample
1202005-27	12:11:36 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-27.043	Sample
1202005-29	12:16:54 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-29.044	Sample
1202005-30	12:22:13 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-30.045	Sample
1202005-31	12:27:32 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-31.046	Sample
1202005-32	12:32:52 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-32.047	Sample
1202005-33	12:38:12 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\1202005-33.048	Sample
BB21505-DUP3	12:43:33 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\BB21505-DUP3.049	Sample
QC Std 2	12:48:47 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 2.050	QC Std #2
QC Std 4	12:54:00 Thu 16-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 4.051	QC Std #4
Blank	09:55:13 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\Blank.052	Blank
Blank	10:00:42 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\Blank.053	Blank
Standard 1	10:05:54 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\Standard 1.054	Standard #1
Standard 2	10:11:07 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\Standard 2.055	Standard #2
Standard 3	10:16:20 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\Standard 3.056	Standard #3
QC Std 2	10:21:44 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 2.057	QC Std #2
QC Std 4	10:26:57 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 4.058	QC Std #4
QC Std 5	10:32:10 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 5.059	QC Std #5
QC Std 6	10:37:23 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 6.060	QC Std #6
QC Std 7	10:42:20 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 7.061	QC Std #7
BB22103-BLK1	10:47:57 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\BB22103-BLK1.062	Sample
BB22103-BS1	10:53:17 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\BB22103-BS1.063	Sample
1202005-28	10:58:38 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\1202005-28.064	Sample
1202005-34	11:03:59 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\1202005-34.065	Sample
BB22103-DUP1	11:09:20 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\BB22103-DUP1.066	Sample
1202005-35	11:14:42 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\1202005-35.067	Sample
1202005-36	11:20:05 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\1202005-36.068	Sample
1202005-38	11:25:24 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\1202005-38.069	Sample
1202005-39	11:30:39 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\1202005-39.070	Sample
1202005-40	11:35:55 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\1202005-40.071	Sample
QC Std 2	11:41:08 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 2.072	QC Std #2
QC Std 4	11:46:20 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 4.073	QC Std #4
BB22103-MS1	11:51:37 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\BB22103-MS1.074	Sample
1202005-41	11:56:54 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\1202005-41.075	Sample
1202005-43	12:02:12 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\1202005-43.076	Sample
QC Std 2	12:07:25 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 2.077	QC Std #2
QC Std 4	12:12:38 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 4.078	QC Std #4
QC Std 2	12:23:02 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 2.079	QC Std #2
QC Std 6	12:29:02 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\QC Std 6.080	QC Std #6
-43	14:56:04 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\-43.081	Sample
-41	15:02:04 Wed 22-Feb-12	C:\Elandata\Dataset\EL120216\-41.082	Sample
Blank	12:03:31 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\Blank.083	Blank
Standard 1	12:08:27 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\Standard 1.084	Standard #1
Standard 2	12:13:25 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\Standard 2.085	Standard #2
Standard 3	12:18:23 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\Standard 3.086	Standard #3
QC Std 2	12:23:32 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\QC Std 2.087	QC Std #2
QC Std 4	12:28:29 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\QC Std 4.088	QC Std #4
QC Std 5	12:33:27 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\QC Std 5.089	QC Std #5
QC Std 6	12:38:25 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\QC Std 6.090	QC Std #6
QC Std 7	12:43:05 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\QC Std 7.091	QC Std #7
~~BC21301~~-BLK1	12:50:37 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\BC21301-BLK1.092	Sample
~~BC21301~~-BS1	12:55:41 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\BC21301-BS1.093	Sample

don't use RC 3.14.12

RC 3.14.12

BC21203

BC21203

	1203001-01	13:00:46 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\1203001-01.094	Sample
BC21203	~~BC21301~~-DUP1	13:05:52 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\BC21301-DUP1.095	Sample
	1203001-02	13:10:58 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\1203001-02.096	Sample
	1203001-03	13:16:05 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\1203001-03.097	Sample
RC 3.14.12	1203001-04	13:21:12 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\1203001-04.098	Sample
	1203001-06	13:26:15 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\1203001-06.099	Sample
	1203001-07	13:31:16 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\1203001-07.100	Sample
	1203001-08	13:36:16 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\1203001-08.101	Sample
	1203001-09	13:41:27 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\1203001-09.102	Sample
BC21203	~~BC21301~~-MS1	13:46:29 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\BC21301-MS1.103	Sample
	1203001-11	13:51:31 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\1203001-11.104	Sample
don't report	1203001-12	13:56:34 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\1203001-12.105	Sample
	QC Std 2	14:01:32 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\QC Std 2.106	QC Std #2
	QC Std 4	14:06:29 Wed 14-Mar-12	C:\Elandata\Dataset\EL120216\QC Std 4.107	QC Std #4

don't use - no sample

EPA - OASQA - ICP-MS Standard/Reagent Preparation

Perkin Elmer ELAN 6100

Analyst: Chester Date: 3-14-12 Pipets Logbook # 11

Run Filename EL120314 (all electronic files saved using Run Filename) SOP #: R3-QA116

SITE/WO#: Dimock 1203001 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:** 1·12 **Prepared by:** RC

*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:_____

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

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	LCV (diluted value)	x 2.5
QC Std 1 (CAL1) = 10ppb/1ppm (5x of 50ppb)	0.4 ppb (0.4 ppm)= 0.4ml of 10 ppb (CAL1) to 10ml	1.0 (0.10)
QC Std 2 (CAL2/CCV) = 50ppb/5ppm (2x of 100ppb)	0.8 ppb (0.8 ppm) =0.8ml of 10 ppb (CAL1) to 10ml	2.0 (0.20)
QC Std 3 (CAL3) = 100ppb/10ppm	1.0 ppb (0.1 ppm) = 2x dilutionof 2.0 ppb	2.5 (0.25)
QC Std 4 = Blank = ± LCV	2.0 ppb (0.2 ppm) =0.4ml of 50 ppb (CAL2) to 10ml	5.0 (0.50)

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: EL120314.cal
File Path: C:\Elandata\System\EL120314.cal
Calibration Type: External Calibration
WO#: 1203001
SITE: DIMOCK

Calibration File Name

File Name EL120314.cal

Method File Name

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

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Be r	9.012	Linear Thru Zero	0.00	0.00	0.999754
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	0.998762
B	11.009	Linear Thru Zero	0.00	0.00	0.999104
Al	26.982	Linear Thru Zero	0.01	0.00	0.999791
Sc	44.956	Linear Thru Zero	0.00	0.00	0.000000
V r	50.944	Linear Thru Zero	0.02	0.00	0.999537
V u	50.944	Linear Thru Zero	0.02	0.00	0.999141
Cr r	51.941	Linear Thru Zero	0.01	0.00	0.999347
Cr	52.941	Linear Thru Zero	0.00	0.00	0.996003
Mn	54.938	Linear Thru Zero	0.02	0.00	0.999403
Co	58.933	Linear Thru Zero	0.01	0.00	0.998584
Ni r	59.933	Linear Thru Zero	0.00	0.00	0.999181
Ni	61.928	Linear Thru Zero	0.00	0.00	0.998119
Cu r	62.930	Linear Thru Zero	0.01	0.00	0.998487
Cu	64.928	Linear Thru Zero	0.00	0.00	0.998842
Zn r	65.926	Linear Thru Zero	0.01	0.00	0.999905
Zn	66.927	Linear Thru Zero	0.00	0.00	0.999081
Zn	67.925	Linear Thru Zero	0.01	0.00	0.999942
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
As r	74.922	Linear Thru Zero	0.01	0.00	0.999958
As u	74.922	Linear Thru Zero	0.01	0.00	0.999991
Se r	81.917	Linear Thru Zero	0.00	0.00	0.999912
Se	76.920	Linear Thru Zero	0.00	0.00	0.999937
Sr	87.906	Linear Thru Zero	0.12	0.00	0.999885
Ag r	106.905	Linear Thru Zero	0.03	0.00	0.999963
Ag	108.905	Linear Thru Zero	0.03	0.00	0.999989
Cd r	110.904	Linear Thru Zero	0.01	0.00	0.999997
Cd	105.907	Linear Thru Zero	0.00	0.00	0.999851
Cd	107.904	Linear Thru Zero	0.00	0.00	0.999683
Cd	113.904	Linear Thru Zero	0.01	0.00	0.999963
Cd u	110.904	Linear Thru Zero	0.01	0.00	0.999996
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Sb r	122.904	Linear Thru Zero	0.02	0.00	0.999998
Sb	120.904	Linear Thru Zero	0.02	0.00	0.999966
Sn	117.902	Linear Thru Zero	0.02	0.00	0.999581
Sn r	119.902	Linear Thru Zero	0.02	0.00	0.999864
Ba r	136.905	Linear Thru Zero	0.01	0.00	0.999742

Ba	134.906	Linear Thru Zero	0.01	0.00	0.999963
Tb	158.925	Linear Thru Zero	0.00	0.00	0.000000
Tl r	204.975	Linear Thru Zero	0.04	0.00	0.999994
Tl	202.972	Linear Thru Zero	0.02	0.00	1.000000
U	238.050	Linear Thru Zero	0.06	0.00	0.999943
Pb	207.977	Linear Thru Zero	0.05	0.00	0.999842
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	0.999979
Br	80.916	Linear Thru Zero	0.00	0.00	1.000000
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	13318.30	0.00	0.999837
Mo	94.906	Linear Thru Zero	0.01	0.00	0.999994
Mo	96.906	Linear Thru Zero	0.01	0.00	0.999987
Mo r	97.906	Linear Thru Zero	0.02	0.00	0.999992
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

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
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	2.977	599	2070	0.699	
Mg	23.985	23.979	5705	2037	0.689	
Rh	102.905	102.879	24966	1975	0.694	
Ce	139.905	139.879	33962	2015	0.695	
Pb	207.977	207.979	50424	2215	0.679	
U	238.050	237.974	57647	2348	0.697	

ELAN 6100 Daily Performance Report

Sample ID: Sample
Sample Date/Time: Wednesday, March 14, 2012 11:51:57
Sample Description:
Method File: C:\Elandata\Method\EPA\epa Daily.mth
Dataset File: C:\Elandata\Dataset\Default\Sample.037
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

1203001

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Be	9.0	3511.1	3511.068	35.370	1.0
	Co	58.9	99779.6	99779.585	1281.972	1.3
	Mg	24.0	48921.9	48921.901	713.935	1.5
	Rh	102.9	191646.0	191645.953	2286.278	1.2
	In	114.9	214599.7	214599.663	2576.126	1.2
	Pb	208.0	86440.2	86440.172	477.005	0.6
⌈>	Ba	137.9	179447.3	179447.268	1623.412	0.9
⌊	Ba++	69.0	4749.4	0.026	0.000	0.6
⌈>	Ce	139.9	229041.6	229041.564	1287.443	0.6
⌊	CeO	155.9	6762.2	0.030	0.001	1.9
	Bkgd	220.0	1.0	1.000	0.667	66.7
	C	12.0	540846.0	540846.002	594.624	0.1
	C	13.0	8195.6	8195.564	93.487	1.1
	U	238.1	197460.8	197460.794	2210.195	1.1
	Kr	83.9	1211.8	1211.846	36.687	3.0
	Kr	82.9	242.6	242.554	16.877	7.0

Current Optimization File Data

Current Value	Description
0.88	Nebulizer Gas Flow
7.25	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
60.00	Service DAC 1
0.00	Quadrupole Rod Offset
-15.00	Differential Aperture

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	25	5.0	2633.5
Co	59	25	5.8	77996.4
In	115	25	7.3	162111.4

Instrument Tuning Report

1203001

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	2.977	599	2070	0.699	
Mg	23.985	23.979	5705	2037	0.689	
Rh	102.905	102.879	24966	1975	0.694	
Ce	139.905	139.879	33962	2015	0.695	
Pb	207.977	207.979	50424	2215	0.679	
U	238.050	237.974	57647	2348	0.697	

Report Date/Time: Wednesday, March 14, 2012 11:56:12

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: Blank

Sample Description:
Autosampler Position: 1
Sample Date/Time: Wednesday, March 14, 2012 12:03:31
Dataset File: C:\Elandata\Dataset\EL120216\Blank.083
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File:
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202~~004~~ 3001 RC 3-14-12

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.333			ug/L	
|>	Li u	6	334987.888			ug/L	
⌊	Li	6	333029.370			ug/L	
⌈	Be	9	1.333			ug/L	
|	B	11	157.337			ug/L	
|	Al	27	1977.608			ug/L	
|>	Sc	45	443380.651			ug/L	
|	V r	51	2664.161			ug/L	
|	V u	51	86078.430			ug/L	
|	Cr r	52	9512.307			ug/L	
|	Cr	53	28695.823			ug/L	
|	Mn	55	2161.992			ug/L	
|	Co	59	47.001			ug/L	
|	Ni r	60	461.019			ug/L	
|	Ni	62	171.004			ug/L	
|	Cu r	63	603.697			ug/L	
⌊	Cu	65	289.675			ug/L	
⌈	Zn r	66	537.024			ug/L	
|	Zn	67	1621.192			ug/L	
|	Zn	68	547.025			ug/L	
|>	Ge	72	122013.611			ug/L	
|	As r	75	223.994			ug/L	
|	As u	75	4344.270			ug/L	
|	Se r	82	7.818			ug/L	
|	Se	77	1256.524			ug/L	
⌊	Sr	88	250.673			ug/L	
⌈	Ag r	107	70.668			ug/L	
|	Ag	109	62.668			ug/L	
|	Cd r	111	294.635			ug/L	
|	Cd	106	-2719.513			ug/L	
|	Cd	108	-2883.440			ug/L	
|	Cd	114	236.018			ug/L	
|	Cd u	111	99.335			ug/L	
|>	In	115	216166.642			ug/L	
|	Sb r	123	58.080			ug/L	
⌊	Sb	121	76.668			ug/L	

⌈	Sn	118	148.670	ug/L
|	Sn r	120	219.339	ug/L
|	Ba r	137	50.001	ug/L
|	Ba	135	25.000	ug/L
|>	Tb	159	244819.515	ug/L
|	Tl r	205	839.721	ug/L
|	Tl	203	360.345	ug/L
|	U	238	24.334	ug/L
⌊	Pb	208	6009.054	ug/L
	Kr	83	251.007	ug/L
	Cl	35	28732582.996	mg/L
	C	12	386459.208	mg/L
	Y	89	239993.678	ug/L
⌈	Br	79	1790.227	ug/L
|	Br	81	12370.400	ug/L
⌊>	Ge-1	72	122013.611	ug/L
	Ru	99	2.333	ug/L
	Pd	105	2440.412	ug/L
	Ho	165	225360.332	ug/L
	Th	232	49.667	ug/L
⌈	Mo	95	128.336	ug/L
|	Mo	97	76.334	ug/L
|	Mo r	98	184.560	ug/L
|	Rh	103	13.333	ug/L
⌊>	In-1	115	216166.642	ug/L
	Ti	47	308.676	ug/L
	Li	7	24149.430	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: Wednesday, March 14, 2012 12:08:27
Dataset File: C:\Elandata\Dataset\EL120216\Standard 1.084
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File:
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202004 3001 CC 3-14-12

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	3017.956	1.333	10.000	ug/L	5.593
|>	Li u	6	310864.369	334987.888		ug/L	
⌊	Li	6	308991.457	333029.370		ug/L	
⌈	Be	9	3017.956	1.333	10.000	ug/L	3.115
|	B	11	4311.585	157.337	10.000	ug/L	2.271
|	Al	27	49640.831	1977.608	10.000	ug/L	0.418
|>	Sc	45	447491.995	443380.651		ug/L	
|	V r	51	87338.752	2664.161	10.000	ug/L	4.099
|	V u	51	188383.878	86078.430	10.000	ug/L	3.397
|	Cr r	52	79098.435	9512.307	10.000	ug/L	0.533
|	Cr	53	43125.983	28695.823	10.000	ug/L	2.427
|	Mn	55	104522.871	2161.992	10.000	ug/L	3.028
|	Co	59	77477.387	47.001	10.000	ug/L	2.297
|	Ni r	60	16728.008	461.019	10.000	ug/L	2.506
|	Ni	62	2661.820	171.004	10.000	ug/L	1.739
|	Cu r	63	35485.687	603.697	10.000	ug/L	1.317
⌊	Cu	65	17103.164	289.675	10.000	ug/L	0.844
⌈	Zn r	66	10364.083	537.024	10.000	ug/L	2.312
|	Zn	67	4232.542	1621.192	10.000	ug/L	9.342
|	Zn	68	7618.514	547.025	10.000	ug/L	1.328
|>	Ge	72	123931.625	122013.611		ug/L	
|	As r	75	12541.695	223.994	10.000	ug/L	2.230
|	As u	75	15964.410	4344.270	10.000	ug/L	6.777
|	Se r	82	1299.866	7.818	10.000	ug/L	2.082
|	Se	77	2200.009	1256.524	10.000	ug/L	25.671
⌊	Sr	88	157935.633	250.673	10.000	ug/L	2.502
⌈	Ag r	107	60476.759	70.668	10.000	ug/L	0.592
|	Ag	109	56288.126	62.668	10.000	ug/L	1.416
|	Cd r	111	14036.698	294.635	10.000	ug/L	0.254
|	Cd	106	-1628.582	-2719.513	10.000	ug/L	22.323
|	Cd	108	-2056.661	-2883.440	10.000	ug/L	19.617
|	Cd	114	31560.691	236.018	10.000	ug/L	1.001
|	Cd u	111	13943.434	99.335	10.000	ug/L	0.386
|>	In	115	214806.790	216166.642		ug/L	
|	Sb r	123	33235.724	58.080	10.000	ug/L	0.992
⌊	Sb	121	43540.665	76.668	10.000	ug/L	1.529

⌈	**Sn**	118	41024.210	148.670	**10.000**	ug/L	2.203
|	**Sn r**	120	56063.711	219.339	**10.000**	ug/L	4.858
|	**Ba r**	137	21546.683	50.001	**10.000**	ug/L	0.714
|	**Ba**	135	12508.622	25.000	**10.000**	ug/L	0.813
|>	**Tb**	159	236433.976	244819.515		ug/L	
|	**Tl r**	205	97663.168	839.721	**10.000**	ug/L	1.590
|	**Tl**	203	40852.272	360.345	**10.000**	ug/L	1.028
|	**U**	238	153031.111	24.334	**10.000**	ug/L	1.403
⌊	**Pb**	208	138116.251	6009.054	**10.000**	ug/L	0.820
	Kr	83	264.674	251.007		ug/L	
	Cl	35	28818989.655	28732582.996		mg/L	
	C	12	398081.761	386459.208		mg/L	
	Y	89	237033.567	239993.678		ug/L	
⌈	**Br**	79	4118.143	1790.227	**10.000**	ug/L	2.273
|	**Br**	81	14877.868	12370.400	**10.000**	ug/L	25.613
⌊>	**Ge-1**	72	123931.625	122013.611		ug/L	
	Ru	99	6.333	2.333		ug/L	
	Pd	105	2584.128	2440.412		ug/L	
	Ho	165	226959.095	225360.332		ug/L	
	Th	232	141264.459	49.667	**10.000**	ug/L	0.960
⌈	**Mo**	95	25248.622	128.336	**10.000**	ug/L	1.699
|	**Mo**	97	15574.240	76.334	**10.000**	ug/L	1.652
|	**Mo r**	98	40395.315	184.560	**10.000**	ug/L	0.529
|	**Rh**	103	21.334	13.333		ug/L	
⌊>	**In-1**	115	214806.790	216166.642		ug/L	
	Ti	47	377.013	308.676		ug/L	
	Li	7	23093.862	24149.430		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: Wednesday, March 14, 2012 12:13:25
Dataset File: C:\Elandata\Dataset\EL120216\Standard 2.085
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File:
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202004 3001 RC 3.14.12

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	14270.034	1.333	50.136	ug/L	4.754
|>	Li u	6	273308.925	334987.888		ug/L	
L	Li	6	271548.936	333029.370		ug/L	
Γ	Be	9	14270.034	1.333	49.767	ug/L	0.660
|	B	11	20106.785	157.337	49.798	ug/L	1.394
|	Al	27	240515.377	1977.608	49.884	ug/L	1.791
|>	Sc	45	474896.260	443380.651		ug/L	
|	V r	51	450240.024	2664.161	49.992	ug/L	1.672
|	V u	51	564085.616	86078.430	49.729	ug/L	2.168
|	Cr r	52	365823.794	9512.307	49.929	ug/L	0.614
|	Cr	53	80262.505	28695.823	49.023	ug/L	9.414
|	Mn	55	527846.690	2161.992	49.936	ug/L	0.318
|	Co	59	383710.563	47.001	49.864	ug/L	1.246
|	Ni r	60	80566.593	461.019	49.851	ug/L	2.148
|	Ni	62	12332.008	171.004	49.833	ug/L	4.070
|	Cu r	63	171940.113	603.697	49.846	ug/L	0.820
L	Cu	65	82285.284	289.675	49.831	ug/L	1.367
Γ	Zn r	66	47916.978	537.024	49.862	ug/L	2.654
|	Zn	67	11747.080	1621.192	49.371	ug/L	1.072
|	Zn	68	36232.501	547.025	49.954	ug/L	1.370
|>	Ge	72	128131.612	122013.611		ug/L	
|	As r	75	61335.203	223.994	49.920	ug/L	2.705
|	As u	75	63433.526	4344.270	49.973	ug/L	2.677
|	Se r	82	6367.774	7.818	49.904	ug/L	2.263
|	Se	77	5982.361	1256.524	49.956	ug/L	4.710
L	Sr	88	773201.421	250.673	49.895	ug/L	0.766
Γ	Ag r	107	288140.895	70.668	49.904	ug/L	3.369
|	Ag	109	271274.277	62.668	49.927	ug/L	2.094
|	Cd r	111	67319.924	294.635	49.949	ug/L	2.028
|	Cd	106	3161.278	-2719.513	50.158	ug/L	2.335
|	Cd	108	1397.315	-2883.440	50.095	ug/L	1.934
|	Cd	114	153173.958	236.018	49.951	ug/L	1.178
|	Cd u	111	67343.212	99.335	49.941	ug/L	1.990
|>	In	115	215138.630	216166.642		ug/L	
|	Sb r	123	163863.826	58.080	49.972	ug/L	1.421
L	Sb	121	213517.872	76.668	49.962	ug/L	0.768

Report Date/Time: Wednesday, March 14, 2012 12:16:46
Page 1
Sample ID: Standard 2

⌈	Sn	118	205701.353	148.670	**50.039**	ug/L	2.018
|	Sn r	120	273722.652	219.339	**49.988**	ug/L	1.749
|	Ba r	137	108184.248	50.001	**50.040**	ug/L	2.620
|	Ba	135	61200.773	25.000	**49.990**	ug/L	1.101
|>	Tb	159	232944.596	244819.515		ug/L	
|	Tl r	205	469146.251	839.721	**49.964**	ug/L	1.773
|	Tl	203	199432.303	360.345	**49.996**	ug/L	2.805
|	U	238	725015.980	24.334	**49.924**	ug/L	0.629
⌊	Pb	208	643348.243	6009.054	**49.958**	ug/L	2.683
	Kr	83	287.342	251.007		ug/L	
	Cl	35	31553771.695	28732582.996		mg/L	
	C	12	429155.435	386459.208		mg/L	
	Y	89	240301.304	239993.678		ug/L	
⌈	Br	79	13928.747	1790.227	**50.025**	ug/L	3.990
|	Br	81	24914.208	12370.400	**49.993**	ug/L	4.839
⌊>	Ge-1	72	128131.612	122013.611		ug/L	
	Ru	99	17.334	2.333		ug/L	
	Pd	105	2791.535	2440.412		ug/L	
	Ho	165	227370.181	225360.332		ug/L	
	Th	232	688693.003	49.667	**49.951**	ug/L	1.287
⌈	Mo	95	124054.282	128.336	**49.971**	ug/L	1.261
|	Mo	97	78658.586	76.334	**50.024**	ug/L	1.514
|	Mo r	98	200084.899	184.560	**49.986**	ug/L	1.628
|	Rh	103	70.334	13.333		ug/L	
⌊>	In-1	115	215138.630	216166.642		ug/L	
	Ti	47	478.686	308.676		ug/L	
	Li	7	21701.465	24149.430		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: Wednesday, March 14, 2012 12:18:23

Dataset File: C:\Elandata\Dataset\EL120216\Standard 3.086

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

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

Calibration File:

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

SITE: DIMOCK WO1202~~004~~ 3001 RC 3.P1.P

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	26932.011	1.333	**101.091**	ug/L	4.065
|>	Li u	6	245093.229	334987.888		ug/L	
L	Li	6	243450.533	333029.370		ug/L	
Γ	Be	9	26932.011	1.333	**97.531**	ug/L	2.312
|	B	11	38405.760	157.337	**97.900**	ug/L	5.061
|	Al	27	482677.919	1977.608	**98.995**	ug/L	1.267
|>	Sc	45	500870.903	443380.651		ug/L	
|	V r	51	879922.907	2664.161	**98.447**	ug/L	1.835
|	V u	51	1007786.709	86078.430	**97.996**	ug/L	0.856
|	Cr r	52	699527.145	9512.307	**98.165**	ug/L	1.264
|	Cr	53	121928.016	28695.823	**96.233**	ug/L	2.012
|	Mn	55	1023632.176	2161.992	**98.244**	ug/L	2.588
|	Co	59	715338.736	47.001	**97.306**	ug/L	2.598
|	Ni r	60	154467.863	461.019	**97.969**	ug/L	1.903
|	Ni	62	22453.957	171.004	**96.898**	ug/L	2.007
|	Cu r	63	319002.249	603.697	**97.220**	ug/L	1.593
L	Cu	65	155209.816	289.675	**97.581**	ug/L	2.231
Γ	Zn r	66	89535.021	537.024	**99.379**	ug/L	0.693
|	Zn	67	19895.235	1621.192	**98.451**	ug/L	0.835
|	Zn	68	67709.392	547.025	**99.463**	ug/L	0.504
|>	Ge	72	123696.974	122013.611		ug/L	
|	As r	75	116009.370	223.994	**99.574**	ug/L	1.666
|	As u	75	116996.678	4344.270	**99.788**	ug/L	1.634
|	Se r	82	11941.469	7.818	**99.365**	ug/L	0.522
|	Se	77	10537.925	1256.524	**100.562**	ug/L	2.094
L	Sr	88	1444079.062	250.673	**99.267**	ug/L	0.372
Γ	Ag r	107	548611.730	70.668	**99.622**	ug/L	2.842
|	Ag	109	521449.950	62.668	**99.828**	ug/L	2.272
|	Cd r	111	130020.385	294.635	**99.979**	ug/L	2.593
|	Cd	106	9156.174	-2719.513	**100.804**	ug/L	0.902
|	Cd	108	5996.236	-2883.440	**101.266**	ug/L	2.313
|	Cd	114	290495.419	236.018	**99.576**	ug/L	3.358
|	Cd u	111	130380.635	99.335	**99.996**	ug/L	2.691
|>	In	115	208201.851	216166.642		ug/L	
|	Sb r	123	316132.141	58.080	**99.931**	ug/L	2.993
L	Sb	121	421794.449	76.668	**100.410**	ug/L	0.975

⌈	Sn	118	386068.908	148.670	**98.526**	ug/L	1.774
|	Sn r	120	529717.216	219.339	**99.159**	ug/L	2.368
|	Ba r	137	206140.267	50.001	**98.845**	ug/L	2.450
|	Ba	135	120737.880	25.000	**99.561**	ug/L	2.756
|>	Tb	159	234717.322	244819.515		ug/L	
|	Tl r	205	914444.221	839.721	**96.764**	ug/L	3.572
|	Tl	203	390925.561	360.345	**97.344**	ug/L	1.539
|	U	238	1427183.348	24.334	**99.485**	ug/L	2.968
⌊	Pb	208	1237682.101	6009.054	**99.100**	ug/L	1.732
	Kr	83	268.341	251.007		ug/L	
	Cl	35	32751056.655	28732582.996		mg/L	
	C	12	452373.553	386459.208		mg/L	
	Y	89	240473.856	239993.678		ug/L	
⌈	Br	79	25432.227	1790.227	**100.322**	ug/L	1.584
|	Br	81	35535.600	12370.400	**99.973**	ug/L	3.064
⌊>	Ge-1	72	123696.974	122013.611		ug/L	
	Ru	99	30.334	2.333		ug/L	
	Pd	105	2738.848	2440.412		ug/L	
	Ho	165	222322.576	225360.332		ug/L	
	Th	232	1319712.801	49.667	**99.086**	ug/L	1.783
⌈	Mo	95	241965.983	128.336	**100.167**	ug/L	3.671
|	Mo	97	150239.187	76.334	**99.748**	ug/L	1.791
|	Mo r	98	391037.981	184.560	**100.204**	ug/L	2.029
|	Rh	103	110.002	13.333		ug/L	
⌊>	In-1	115	208201.851	216166.642		ug/L	
	Ti	47	589.362	308.676		ug/L	
	Li	7	20255.193	24149.430		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: Wednesday, March 14, 2012 12:23:32

Dataset File: C:\Elandata\Dataset\EL120216\QC Std 2.087

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

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

Calibration File:

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

SITE: DIMOCK WO1202~~004~~ 3001 RC 3.14.12

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	13063.214	1.333	**52.947**	ug/L	1.909
|>	Li u	6	226734.921	334987.888		ug/L	
⌊	Li	6	225192.560	333029.370		ug/L	
⌈	Be	9	13063.214	1.333	**49.366**	ug/L	1.041
|	B	11	19298.710	157.337	**51.101**	ug/L	1.840
|	Al	27	248028.292	1977.608	**52.882**	ug/L	1.086
|>	Sc	45	479876.872	443380.651	.	ug/L	
|	V r	51	442965.745	2664.161	**51.575**	ug/L	2.499
|	V u	51	554856.586	86078.430	**51.865**	ug/L	1.820
|	Cr r	52	362422.959	9512.307	**52.378**	ug/L	1.888
|	Cr	53	78072.422	28695.823	**52.747**	ug/L	3.579
|	Mn	55	514970.426	2161.992	**51.461**	ug/L	1.036
|	Co	59	365533.160	47.001	**51.879**	ug/L	1.273
|	Ni r	60	76515.521	461.019	**50.489**	ug/L	1.899
|	Ni	62	11727.386	171.004	**52.435**	ug/L	2.058
|	Cu r	63	161162.053	603.697	**51.164**	ug/L	1.793
⌊	Cu	65	79689.717	289.675	**52.190**	ug/L	3.139
⌈	Zn r	66	45651.221	537.024	**51.864**	ug/L	0.380
|	Zn	67	11323.777	1621.192	**54.023**	ug/L	2.903
|	Zn	68	34945.883	547.025	**52.466**	ug/L	2.306
|>	Ge	72	120176.172	122013.611		ug/L	
|	As r	75	59142.083	223.994	**52.171**	ug/L	0.925
|	As u	75	60591.338	4344.270	**51.381**	ug/L	0.881
|	Se r	82	6099.690	7.818	**52.219**	ug/L	1.170
|	Se	77	5878.740	1256.524	**51.877**	ug/L	2.702
⌊	Sr	88	753090.004	250.673	**53.277**	ug/L	0.500
⌈	Ag r	107	283925.608	70.668	**52.240**	ug/L	1.507
|	Ag	109	267099.718	62.668	**51.823**	ug/L	0.918
|	Cd r	111	65329.736	294.635	**50.808**	ug/L	1.173
|	Cd	106	3290.372	-2719.513	**50.979**	ug/L	2.796
|	Cd	108	1492.749	-2883.440	**49.511**	ug/L	1.810
|	Cd	114	145222.585	236.018	**50.408**	ug/L	1.258
|	Cd u	111	65305.087	99.335	**50.727**	ug/L	1.399
|>	In	115	205410.529	216166.642		ug/L	
|	Sb r	123	158344.270	58.080	**50.716**	ug/L	2.030
⌊	Sb	121	211012.202	76.668	**50.902**	ug/L	0.636

⌈	Sn	118	195836.539	148.670	**51.211**	ug/L	1.962
|	Sn r	120	268547.904	219.339	**51.511**	ug/L	2.286
|	Ba r	137	104095.717	50.001	**51.146**	ug/L	0.594
|	Ba	135	60464.729	25.000	**51.083**	ug/L	1.150
|>	Tb	159	228996.624	244819.515		ug/L	
|	Tl r	205	464693.471	839.721	**50.360**	ug/L	2.492
|	Tl	203	193983.292	360.345	**49.472**	ug/L	1.862
|	U	238	729647.958	24.334	**52.137**	ug/L	2.948
⌊	Pb	208	620636.866	6009.054	**50.716**	ug/L	2.552
	Kr	83	268.674	251.007		ug/L	
	Cl	35	31312374.501	28732582.996		mg/L	
	C	12	409004.464	386459.208		mg/L	
	Y	89	229716.256	239993.678		ug/L	
⌈	Br	79	13926.736	1790.227	**53.192**	ug/L	3.042
|	Br	81	23756.873	12370.400	**51.809**	ug/L	5.575
⌊>	Ge-1	72	120176.172	122013.611		ug/L	
	Ru	99	16.000	2.333		ug/L	
	Pd	105	2637.812	2440.412		ug/L	
	Ho	165	210629.200	225360.332		ug/L	
	Th	232	683200.316	49.667	**51.294**	ug/L	1.350
⌈	Mo	95	121475.191	128.336	**50.922**	ug/L	0.881
|	Mo	97	76003.395	76.334	**51.118**	ug/L	1.814
|	Mo r	98	197354.124	184.560	**51.237**	ug/L	2.443
|	Rh	103	73.668	13.333		ug/L	
⌊>	In-1	115	205410.529	216166.642		ug/L	
	Ti	47	492.021	308.676		ug/L	
	Li	7	19018.016	24149.430		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 4

Sample Description:
Autosampler Position: 1
Sample Date/Time: Wednesday, March 14, 2012 12:28:29
Dataset File: C:\Elandata\Dataset\EL120216\QC Std 4.088
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File:
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202~~004~~ 3002 RC 3-14-12

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.333	1.333	0.002	ug/L	387.768
|>	Li u	6	238236.837	334987.888		ug/L	
⌊	Li	6	236593.980	333029.370		ug/L	
⌈	Be	9	1.333	1.333	-0.000	ug/L	6139.089
|	B	11	339.011	157.337	0.512	ug/L	32.264
|	Al	27	1966.605	1977.608	-0.009	ug/L	352.400
|>	Sc	45	449638.127	443380.651		ug/L	
|	V r	51	2877.054	2664.161	0.022	ug/L	187.226
|	V u	51	115301.196	86078.430	3.360	ug/L	18.732
|	Cr r	52	9719.568	9512.307	0.012	ug/L	166.075
|	Cr	53	38282.522	28695.823	10.998	ug/L	18.794
|	Mn	55	1379.137	2161.992	-0.087	ug/L	5.358
|	Co	59	51.334	47.001	0.001	ug/L	127.030
|	Ni r	60	362.013	461.019	-0.074	ug/L	132.026
|	Ni	62	178.004	171.004	0.023	ug/L	649.116
|	Cu r	63	722.041	603.697	0.037	ug/L	34.069
⌊	Cu	65	338.011	289.675	0.031	ug/L	48.756
⌈	Zn r	66	396.348	537.024	-0.156	ug/L	26.290
|	Zn	67	2928.589	1621.192	7.241	ug/L	14.016
|	Zn	68	559.026	547.025	0.023	ug/L	297.766
|>	Ge	72	121255.979	122013.611		ug/L	
|	As r	75	409.308	223.994	0.162	ug/L	143.930
|	As u	75	4150.495	4344.270	-0.152	ug/L	50.450
|	Se r	82	-18.755	7.818	-0.224	ug/L	66.829
|	Se	77	1166.296	1256.524	-0.906	ug/L	87.755
⌊	Sr	88	263.674	250.673	0.001	ug/L	243.435
⌈	Ag r	107	65.334	70.668	-0.001	ug/L	280.931
|	Ag	109	62.334	62.668	-0.000	ug/L	11807.785
|	Cd r	111	261.643	294.635	-0.023	ug/L	43.912
|	Cd	106	-2867.263	-2719.513	-1.332	ug/L	139.048
|	Cd	108	-3034.586	-2883.440	-1.842	ug/L	139.457
|	Cd	114	129.545	236.018	-0.035	ug/L	7.156
|	Cd u	111	59.668	99.335	-0.029	ug/L	58.265
|>	In	115	215081.908	216166.642		ug/L	
|	Sb r	123	65.831	58.080	0.002	ug/L	100.858
⌊	Sb	121	84.001	76.668	0.002	ug/L	249.625

⌈	**Sn**	118	278.008	148.670	**0.034**	ug/L	45.865
|	**Sn r**	120	368.013	219.339	**0.029**	ug/L	45.041
|	**Ba r**	137	58.334	50.001	**0.005**	ug/L	30.543
|	**Ba**	135	30.000	25.000	**0.005**	ug/L	99.817
|>	**Tb**	159	236041.199	244819.515		ug/L	
|	**Tl r**	205	3064.658	839.721	**0.239**	ug/L	31.555
|	**Tl**	203	1286.791	360.345	**0.234**	ug/L	37.714
|	**U**	238	107.669	24.334	**0.006**	ug/L	39.236
⌊	**Pb**	208	1688.758	6009.054	**-0.328**	ug/L	4.557
	Kr	83	278.341	251.007		ug/L	
	Cl	35	30935388.790	28732582.996		mg/L	
	C	12	363660.440	386459.208		mg/L	
	Y	89	234218.161	239993.678		ug/L	
⌈	**Br**	79	2199.670	1790.227	**1.830**	ug/L	32.527
|	**Br**	81	13215.475	12370.400	**4.103**	ug/L	30.559
⌊>	**Ge-1**	72	121255.979	122013.611		ug/L	
	Ru	99	2.333	2.333		ug/L	
	Pd	105	2567.123	2440.412		ug/L	
	Ho	165	222667.632	225360.332		ug/L	
	Th	232	2890.271	49.667	**0.213**	ug/L	30.702
⌈	**Mo**	95	246.007	128.336	**0.047**	ug/L	51.717
|	**Mo**	97	162.003	76.334	**0.055**	ug/L	11.859
|	**Mo r**	98	400.757	184.560	**0.054**	ug/L	27.608
|	**Rh**	103	8.000	13.333		ug/L	
⌊>	**In-1**	115	215081.908	216166.642		ug/L	
	Ti	47	371.679	308.676		ug/L	
	Li	7	20257.176	24149.430		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	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: Wednesday, March 14, 2012 12:33:27

Dataset File: C:\Elandata\Dataset\EL120216\QC Std 5.089

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

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

Calibration File:

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

SITE: DIMOCK WO1202~~004~~ 3001 RC 3.14.12

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	27238.087	1.333	**102.334**	ug/L	2.555
|>	Li u	6	244565.898	334987.888		ug/L	
L	Li	6	235492.818	333029.370		ug/L	
⌈	Be	9	27238.087	1.333	**103.236**	ug/L	0.728
|	B	11	39653.413	157.337	**105.782**	ug/L	2.815
|	Al	27	489264.762	1977.608	**105.083**	ug/L	3.252
|>	Sc	45	478518.001	443380.651		ug/L	
|	V r	51	812989.455	2664.161	**95.228**	ug/L	1.563
|	V u	51	927242.423	86078.430	**94.004**	ug/L	1.125
|	Cr r	52	690513.986	9512.307	**101.492**	ug/L	1.615
|	Cr	53	114383.103	28695.823	**93.865**	ug/L	2.096
|	Mn	55	1004408.035	2161.992	**100.899**	ug/L	1.405
|	Co	59	724564.563	47.001	**103.160**	ug/L	2.040
|	Ni r	60	152519.257	461.019	**101.300**	ug/L	3.318
|	Ni	62	23157.713	171.004	**104.710**	ug/L	3.870
|	Cu r	63	324549.430	603.697	**103.571**	ug/L	3.152
L	Cu	65	159428.961	289.675	**104.952**	ug/L	2.770
⌈	Zn r	66	89426.824	537.024	**103.636**	ug/L	1.940
|	Zn	67	19410.654	1621.192	**100.434**	ug/L	0.288
|	Zn	68	69438.388	547.025	**106.531**	ug/L	1.242
|>	Ge	72	118503.692	122013.611		ug/L	
|	As r	75	111875.489	223.994	**100.256**	ug/L	1.505
|	As u	75	111376.730	4344.270	**99.156**	ug/L	2.098
|	Se r	82	11619.750	7.818	**100.928**	ug/L	0.408
|	Se	77	9956.565	1256.524	**99.005**	ug/L	1.279
L	Sr	88	1412350.687	250.673	**101.338**	ug/L	0.151
⌈	Ag r	107	258887.192	70.668	**48.996**	ug/L	1.461
|	Ag	109	243189.347	62.668	**48.531**	ug/L	2.149
|	Cd r	111	127060.228	294.635	**101.862**	ug/L	0.461
|	Cd	106	9199.014	-2719.513	**104.525**	ug/L	0.585
|	Cd	108	5834.832	-2883.440	**102.268**	ug/L	3.257
|	Cd	114	282871.815	236.018	**101.075**	ug/L	1.511
|	Cd u	111	127138.731	99.335	**101.657**	ug/L	0.550
|>	In	115	199692.801	216166.642		ug/L	
|	Sb r	123	309603.596	58.080	**102.006**	ug/L	0.172
L	Sb	121	410783.591	76.668	**101.948**	ug/L	1.819

⌈	Sn	118	172.337	148.670	**0.009**	ug/L	77.381
|	Sn r	120	240.673	219.339	**0.007**	ug/L	34.246
|	Ba r	137	209173.001	50.001	**103.437**	ug/L	3.215
|	Ba	135	122095.251	25.000	**103.809**	ug/L	2.165
¦>	Tb	159	227665.632	244819.515		ug/L	
|	Tl r	205	899087.166	839.721	**98.069**	ug/L	1.978
|	Tl	203	376502.221	360.345	**96.645**	ug/L	0.008
|	U	238	41.001	24.334	**0.001**	ug/L	80.073
L	Pb	208	1226595.933	6009.054	**101.284**	ug/L	2.444
	Kr	83	251.340	251.007		ug/L	
	Cl	35	27346692.378	28732582.996		mg/L	
	C	12	377931.828	386459.208		mg/L	
	Y	89	224440.427	239993.678		ug/L	
⌈	Br	79	1989.277	1790.227	**1.111**	ug/L	3.690
|	Br	81	12265.561	12370.400	**1.140**	ug/L	53.947
L>	Ge-1	72	118503.692	122013.611		ug/L	
	Ru	99	35.334	2.333		ug/L	
	Pd	105	2513.436	2440.412		ug/L	
	Ho	165	209795.160	225360.332		ug/L	
	Th	232	3926.899	49.667	**0.291**	ug/L	54.212
⌈	Mo	95	232836.209	128.336	**100.455**	ug/L	3.720
|	Mo	97	144043.308	76.334	**99.697**	ug/L	3.399
|	Mo r	98	369022.850	184.560	**98.588**	ug/L	3.363
|	Rh	103	111.335	13.333		ug/L	
L>	In-1	115	199692.801	216166.642		ug/L	
	Ti	47	65912.185	308.676		ug/L	
	Li	7	111875.221	24149.430		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%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 6

Sample Description:

Autosampler Position: 9

Sample Date/Time: Wednesday, March 14, 2012 12:38:25

Dataset File: C:\Elandata\Dataset\EL120216\QC Std 6.090

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

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

Calibration File:

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

SITE: DIMOCK WO1202004 3001 RC 3-14-12

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	99.335	1.333	0.362	ug/L	15.684
|>	Li u	6	249748.211	334987.888		ug/L	
L	Li	6	248066.972	333029.370		ug/L	
Γ	Be	9	99.335	1.333	0.388	ug/L	13.721
|	B	11	455.018	157.337	0.820	ug/L	22.647
|	Al	27	4425.317	1977.608	0.537	ug/L	5.518
|>	Sc	45	457906.747	443380.651		ug/L	
|	V r	51	8410.040	2664.161	0.697	ug/L	38.277
|	V u	51	120802.431	86078.430	3.755	ug/L	11.217
|	Cr r	52	12839.169	9512.307	0.470	ug/L	5.156
|	Cr	53	38868.428	28695.823	10.851	ug/L	13.020
|	Mn	55	5668.144	2161.992	0.362	ug/L	4.045
|	Co	59	3173.353	47.001	0.465	ug/L	3.772
|	Ni r	60	1011.410	461.019	0.373	ug/L	11.809
|	Ni	62	258.674	171.004	0.391	ug/L	15.031
|	Cu r	63	2181.998	603.697	0.521	ug/L	6.150
L	Cu	65	1059.084	289.675	0.524	ug/L	4.133
Γ	Zn r	66	789.382	537.024	0.273	ug/L	20.894
|	Zn	67	2989.612	1621.192	7.262	ug/L	14.430
|	Zn	68	893.061	547.025	0.501	ug/L	16.827
|>	Ge	72	123763.392	122013.611		ug/L	
|	As r	75	786.895	223.994	0.481	ug/L	11.341
|	As u	75	4539.385	4344.270	0.119	ug/L	120.829
|	Se r	82	67.026	7.818	0.492	ug/L	45.121
|	Se	77	1244.409	1256.524	-0.320	ug/L	206.383
L	Sr	88	7018.938	250.673	0.465	ug/L	1.120
Γ	Ag r	107	2566.120	70.668	0.437	ug/L	1.208
|	Ag	109	2357.052	62.668	0.424	ug/L	3.080
|	Cd r	111	818.473	294.635	0.390	ug/L	1.805
|	Cd	106	-2753.503	-2719.513	-0.333	ug/L	415.744
|	Cd	108	-2946.133	-2883.440	-0.772	ug/L	226.026
|	Cd	114	1383.637	236.018	0.380	ug/L	6.966
|	Cd u	111	610.364	99.335	0.379	ug/L	0.387
|>	In	115	215668.946	216166.642		ug/L	
|	Sb r	123	1449.357	58.080	0.425	ug/L	6.036
L	Sb	121	1932.262	76.668	0.426	ug/L	0.554

Report Date/Time: Wednesday, March 14, 2012 12:41:44

Page 1

Sample ID: QC Std 6

⌈	Sn	118	1882.916	148.670	**0.427**	ug/L	4.542
|	Sn r	120	2608.802	219.339	**0.432**	ug/L	3.057
|	Ba r	137	938.733	50.001	**0.411**	ug/L	3.677
|	Ba	135	535.024	25.000	**0.406**	ug/L	9.753
|>	Tb	159	243358.553	244819.515		ug/L	
|	Tl r	205	5396.948	839.721	**0.466**	ug/L	1.711
|	Tl	203	2188.000	360.345	**0.440**	ug/L	3.193
|	U	238	6604.235	24.334	**0.443**	ug/L	4.745
⌊	Pb	208	7146.046	6009.054	**0.091**	ug/L	16.090
	Kr	83	265.674	251.007		ug/L	
	Cl	35	30194728.055	28732582.996		mg/L	
	C	12	378260.796	386459.208		mg/L	
	Y	89	239766.227	239993.678		ug/L	
⌈	Br	79	2069.966	1790.227	**1.077**	ug/L	19.377
|	Br	81	12867.563	12370.400	**1.384**	ug/L	153.910
⌊>	Ge-1	72	123763.392	122013.611		ug/L	
	Ru	99	1.000	2.333		ug/L	
	Pd	105	2525.107	2440.412		ug/L	
	Ho	165	230195.826	225360.332		ug/L	
	Th	232	5455.995	49.667	**0.406**	ug/L	7.213
⌈	Mo	95	1420.479	128.336	**0.516**	ug/L	2.514
|	Mo	97	852.723	76.334	**0.497**	ug/L	9.026
|	Mo r	98	2159.365	184.560	**0.488**	ug/L	7.069
|	Rh	103	16.000	13.333		ug/L	
⌊>	In-1	115	215668.946	216166.642		ug/L	
	Ti	47	375.680	308.676		ug/L	
	Li	7	20730.443	24149.430		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 r	51	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	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	Pb	208	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: Wednesday, March 14, 2012 12:43:05

Dataset File: C:\Elandata\Dataset\EL120216\QC Std 7.091

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

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

Calibration File:

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

Pb OK <0.80
V OK

SITE: DIMOCK WO1202004 3001 RL 3.14.12

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	209.672	1.333	0.780	ug/L	2.239
|>	Li u	6	245827.489	334987.888		ug/L	
L	Li	6	244162.321	333029.370		ug/L	
Γ	Be	9	209.672	1.333	0.811	ug/L	1.343
|	B	11	551.025	157.337	1.062	ug/L	4.238
|	Al	27	6449.101	1977.608	0.969	ug/L	2.003
|>	Sc	45	465666.363	443380.651		ug/L	
|	V r	51	10661.383	2664.161	0.950	ug/L	10.280
|	V u	51	127335.605	86078.430	4.277	ug/L	14.314
|	Cr r	52	16004.794	9512.307	0.922	ug/L	4.945
|	Cr	53	40254.270	28695.823	11.704	ug/L	19.776
|	Mn	55	10169.153	2161.992	0.817	ug/L	1.568
|	Co	59	6425.080	47.001	0.933	ug/L	1.845
|	Ni r	60	1626.522	461.019	0.782	ug/L	7.891
|	Ni	62	368.012	171.004	0.883	ug/L	10.450
|	Cu r	63	3658.240	603.697	0.994	ug/L	4.226
L	Cu	65	1759.552	289.675	0.986	ug/L	2.607
Γ	Zn r	66	1198.772	537.024	0.738	ug/L	5.812
|	Zn	67	3206.036	1621.192	8.530	ug/L	16.358
|	Zn	68	1140.096	547.025	0.877	ug/L	3.823
|>	Ge	72	123011.353	122013.611		ug/L	
|	As r	75	1421.313	223.994	1.034	ug/L	14.303
|	As u	75	5372.263	4344.270	0.885	ug/L	11.631
|	Se r	82	105.209	7.818	0.815	ug/L	9.671
|	Se	77	1359.632	1256.524	1.013	ug/L	20.768
L	Sr	88	13672.953	250.673	0.928	ug/L	2.817
Γ	Ag r	107	5185.466	70.668	0.887	ug/L	1.120
|	Ag	109	4905.279	62.668	0.885	ug/L	1.034
|	Cd r	111	1354.397	294.635	0.778	ug/L	4.021
|	Cd	106	-2868.388	-2719.513	-1.017	ug/L	159.494
|	Cd	108	-3036.956	-2883.440	-1.407	ug/L	157.823
|	Cd	114	2812.732	236.018	0.843	ug/L	1.961
|	Cd u	111	1177.435	99.335	0.789	ug/L	3.002
|>	In	115	218064.288	216166.642		ug/L	
|	Sb r	123	2892.234	58.080	0.855	ug/L	1.105
L	Sb	121	3846.000	76.668	0.857	ug/L	0.710

⌈	Sn	118	3610.217	148.670	**0.857**	ug/L	4.538
|	Sn r	120	5010.016	219.339	**0.871**	ug/L	6.434
|	Ba r	137	1919.259	50.001	**0.869**	ug/L	2.463
|	Ba	135	1128.427	25.000	**0.882**	ug/L	4.234
|>	Tb	159	242204.616	244819.515		ug/L	
|	Tl r	205	9336.763	839.721	**0.873**	ug/L	6.060
|	Tl	203	3900.696	360.345	**0.857**	ug/L	7.291
|	U	238	13782.142	24.334	**0.930**	ug/L	4.250
⌊	Pb	208	12992.455	6009.054	**0.550**	ug/L	4.745
	Kr	83	283.341	251.007		ug/L	
	Cl	35	30947571.453	28732582.996		mg/L	
	C	12	382368.005	386459.208		mg/L	
	Y	89	240671.735	239993.678		ug/L	
⌈	Br	79	2214.008	1790.227	**1.747**	ug/L	19.679
|	Br	81	13113.634	12370.400	**2.806**	ug/L	19.778
⌊>	Ge-1	72	123011.353	122013.611		ug/L	
	Ru	99	1.000	2.333		ug/L	
	Pd	105	2646.483	2440.412		ug/L	
	Ho	165	227984.116	225360.332		ug/L	
	Th	232	11903.336	49.667	**0.890**	ug/L	4.944
⌈	Mo	95	2238.348	128.336	**0.834**	ug/L	2.409
|	Mo	97	1420.479	76.334	**0.852**	ug/L	3.828
|	Mo r	98	3676.657	184.560	**0.854**	ug/L	0.479
|	Rh	103	13.000	13.333		ug/L	
⌊>	In-1	115	218064.288	216166.642		ug/L	
	Ti	47	397.014	308.676		ug/L	
	Li	7	20532.276	24149.430		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: BC21301-BLK1 3.14.12

Sample Description: 21203 RC

Autosampler Position: 17

Sample Date/Time: Wednesday, March 14, 2012 12:50:37

Dataset File: C:\Elandata\Dataset\EL120216\BC21301-BLK1.092

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

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

Calibration File: C:\Elandata\System\EL120314.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

SITE: DIMOCK WO1202004 3001 RC 3.14.12

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.000	1.333	0.000	ug/L	9928.642
|>	Li u	6	247659.214	334987.888		ug/L	
L	Li	6	245974.018	333029.370		ug/L	
⌈	Be	9	1.000	1.333	-0.001	ug/L	269.646
|	B	11	215.339	157.337	0.140	ug/L	45.819
|	Al	27	2619.139	1977.608	0.121	ug/L	13.863
|>	Sc	45	465024.158	443380.651		ug/L	
|	V r	51	5750.827	2664.161	0.355	ug/L	44.400
|	V u	51	118686.928	86078.430	3.284	ug/L	16.770
|	Cr r	52	10612.756	9512.307	0.098	ug/L	38.482
|	Cr	53	39095.097	28695.823	10.393	ug/L	18.779
|	Mn	55	1402.809	2161.992	-0.090	ug/L	4.666
|	Co	59	40.667	47.001	-0.001	ug/L	64.033
|	Ni r	60	135.669	461.019	-0.239	ug/L	15.059
|	Ni	62	139.003	171.004	-0.189	ug/L	17.549
|	Cu r	63	625.365	603.697	-0.003	ug/L	296.369
L	Cu	65	308.009	289.675	0.003	ug/L	79.610
⌈	Zn r	66	238.339	537.024	-0.345	ug/L	5.858
|	Zn	67	2735.183	1621.192	5.729	ug/L	23.009
|	Zn	68	417.682	547.025	-0.210	ug/L	14.126
|>	Ge	72	125050.522	122013.611		ug/L	
|	As r	75	134.847	223.994	-0.080	ug/L	105.640
|	As u	75	4624.437	4344.270	0.151	ug/L	95.103
|	Se r	82	-19.401	7.818	-0.227	ug/L	150.832
|	Se	77	1309.343	1256.524	0.230	ug/L	258.285
L	Sr	88	107.002	250.673	-0.010	ug/L	3.897
⌈	Ag r	107	47.334	70.668	-0.004	ug/L	24.895
|	Ag	109	47.001	62.668	-0.003	ug/L	47.133
|	Cd r	111	250.505	294.635	-0.037	ug/L	27.481
|	Cd	106	-2846.777	-2719.513	-0.567	ug/L	111.448
|	Cd	108	-3036.127	-2883.440	-1.003	ug/L	96.750
|	Cd	114	67.742	236.018	-0.056	ug/L	5.975
|	Cd u	111	31.000	99.335	-0.051	ug/L	1.840
|>	In	115	220708.368	216166.642		ug/L	
|	Sb r	123	46.164	58.080	-0.004	ug/L	20.988
L	Sb	121	43.001	76.668	-0.008	ug/L	12.837

⌈	Sn	118	233.339	148.670	**0.021**	ug/L	30.964
|	Sn r	120	351.678	219.339	**0.024**	ug/L	27.744
|	Ba r	137	44.001	50.001	**-0.003**	ug/L	66.764
|	Ba	135	27.000	25.000	**0.002**	ug/L	297.430
|>	Tb	159	246241.425	244819.515		ug/L	
|	Tl r	205	831.053	839.721	**-0.001**	ug/L	975.372
|	Tl	203	340.011	360.345	**-0.005**	ug/L	218.553
|	U	238	17.334	24.334	**-0.000**	ug/L	39.798
⌊	Pb	208	1016.037	6009.054	**-0.385**	ug/L	3.784
	Kr	83	276.008	251.007		ug/L	
	Cl	35	31458115.237	28732582.996		mg/L	
	C	12	478511.854	386459.208		mg/L	
	Y	89	245592.756	239993.678		ug/L	
⌈	Br	79	1143.096	1790.227	**-2.906**	ug/L	4.466
|	Br	81	12365.054	12370.400	**-1.344**	ug/L	60.562
⌊>	Ge-1	72	125050.522	122013.611		ug/L	
	Ru	99	1.333	2.333		ug/L	
	Pd	105	2566.454	2440.412		ug/L	
	Ho	165	232370.483	225360.332		ug/L	
	Th	232	461.019	49.667	**0.031**	ug/L	21.115
⌈	Mo	95	155.670	128.336	**0.010**	ug/L	40.567
|	Mo	97	88.668	76.334	**0.007**	ug/L	45.713
|	Mo r	98	245.341	184.560	**0.014**	ug/L	23.366
|	Rh	103	11.333	13.333		ug/L	
⌊>	In-1	115	220708.368	216166.642		ug/L	
	Ti	47	374.346	308.676		ug/L	
	Li	7	20779.243	24149.430		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: BC21301-BS1

Sample Description: 21203 RC 3.14.12

Autosampler Position: 18

Sample Date/Time: Wednesday, March 14, 2012 12:55:41

Dataset File: C:\Elandata\Dataset\EL120216\BC21301-BS1.093

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

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

Calibration File: C:\Elandata\System\EL120314.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

SITE: DIMOCK WO1202004 3001 RC 3.14.12

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	556.693	1.333	**2.057**	ug/L	8.775
|>	Li u	6	247914.692	334987.888		ug/L	
⌊	Li	6	244675.420	333029.370		ug/L	
⌈	Be	9	556.693	1.333	**2.044**	ug/L	10.990
|	B	11	7826.075	157.337	**19.905**	ug/L	8.200
|	Al	27	414551.251	1977.608	**86.365**	ug/L	9.594
|>	Sc	45	492707.720	443380.651		ug/L	
|	V r	51	183701.157	2664.161	**20.628**	ug/L	5.646
|	V u	51	306983.959	86078.430	**23.120**	ug/L	6.973
|	Cr r	52	156093.140	9512.307	**21.080**	ug/L	7.614
|	Cr	53	58898.957	28695.823	**29.511**	ug/L	11.011
|	Mn	55	217436.566	2161.992	**21.023**	ug/L	7.778
|	Co	59	155626.505	47.001	**21.507**	ug/L	5.055
|	Ni r	60	32790.037	461.019	**20.877**	ug/L	7.960
|	Ni	62	5032.035	171.004	**21.423**	ug/L	7.839
|	Cu r	63	70299.192	603.697	**21.615**	ug/L	8.981
⌊	Cu	65	34110.537	289.675	**21.635**	ug/L	8.861
⌈	Zn r	66	19841.541	537.024	**20.663**	ug/L	10.106
|	Zn	67	7341.913	1621.192	**29.138**	ug/L	7.269
|	Zn	68	16938.197	547.025	**23.257**	ug/L	8.862
|>	Ge	72	128968.231	122013.611		ug/L	
|	As r	75	24819.442	223.994	**20.301**	ug/L	10.937
|	As u	75	28325.299	4344.270	**20.200**	ug/L	12.657
|	Se r	82	2493.737	7.818	**19.865**	ug/L	9.262
|	Se	77	3235.292	1256.524	**19.878**	ug/L	15.183
⌊	Sr	88	318507.686	250.673	**21.001**	ug/L	8.885
⌈	Ag r	107	13410.526	70.668	**2.275**	ug/L	9.305
|	Ag	109	12598.823	62.668	**2.255**	ug/L	10.551
|	Cd r	111	2982.415	294.635	**1.941**	ug/L	10.539
|	Cd	106	-2842.064	-2719.513	**-0.418**	ug/L	283.552
|	Cd	108	-2997.481	-2883.440	**-0.422**	ug/L	403.693
|	Cd	114	6462.217	236.018	**2.004**	ug/L	7.173
|	Cd u	111	2872.235	99.335	**1.998**	ug/L	11.296
|>	In	115	221809.943	216166.642		ug/L	
|	Sb r	123	72956.385	58.080	**21.647**	ug/L	9.476
⌊	Sb	121	98682.029	76.668	**22.056**	ug/L	9.774

⌈	Sn	118	87611.416	148.670	**21.543**	ug/L	10.489
|	Sn r	120	119215.502	219.339	**21.495**	ug/L	9.136
|	Ba r	137	173791.324	50.001	**80.372**	ug/L	6.519
|	Ba	135	101418.238	25.000	**80.656**	ug/L	7.529
|>	Tb	159	243384.560	244819.515		ug/L	
|	Tl r	205	193987.121	839.721	**19.726**	ug/L	6.016
|	Tl	203	82154.165	360.345	**19.665**	ug/L	8.296
|	U	238	307361.079	24.334	**20.663**	ug/L	8.049
⌊	Pb	208	269231.817	6009.054	**20.426**	ug/L	7.776
	Kr	83	282.008	251.007		ug/L	
	Cl	35	32055968.100	28732582.996		mg/L	
	C	12	485115.128	386459.208		mg/L	
	Y	89	246016.270	239993.678		ug/L	
⌈	Br	79	2981.941	1790.227	**4.444**	ug/L	13.177
|	Br	81	14420.984	12370.400	**5.618**	ug/L	18.549
⌊>	Ge-1	72	128968.231	122013.611		ug/L	
	Ru	99	7.333	2.333		ug/L	
	Pd	105	2778.864	2440.412		ug/L	
	Ho	165	235207.300	225360.332		ug/L	
	Th	232	583.696	49.667	**0.040**	ug/L	26.555
⌈	Mo	95	54218.393	128.336	**21.032**	ug/L	7.483
|	Mo	97	34267.982	76.334	**21.328**	ug/L	6.988
|	Mo r	98	88518.824	184.560	**21.266**	ug/L	6.462
|	Rh	103	28.667	13.333		ug/L	
⌊>	In-1	115	221809.943	216166.642		ug/L	
	Ti	47	15450.376	308.676		ug/L	
	Li	7	39941.703	24149.430		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: 1203001-01

Sample Description:
Autosampler Position: 19
Sample Date/Time: Wednesday, March 14, 2012 13:00:46
Dataset File: C:\Elandata\Dataset\EL120216\1203001-01.094
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File: C:\Elandata\System\EL120314.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202004 3001 RC 3.14.12

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	0.333	1.333	-0.002	ug/L	92.444
|>	Li u	6	247173.493	334987.888		ug/L	
⌊	Li	6	245456.580	333029.370		ug/L	
⌈	Be	9	0.333	1.333	-0.004	ug/L	52.117
|	B	11	2643.148	157.337	6.606	ug/L	1.980
|	Al	27	7608.180	1977.608	1.175	ug/L	4.801
|>	Sc	45	479849.605	443380.651		ug/L	
|	V r	51	5610.346	2664.161	0.323	ug/L	63.950
|	V u	51	133206.294	86078.430	4.509	ug/L	12.849
|	Cr r	52	11726.049	9512.307	0.214	ug/L	27.860
|	Cr	53	43732.109	28695.823	14.257	ug/L	15.025
|	Mn	55	1713.875	2161.992	-0.063	ug/L	3.888
|	Co	59	66.001	47.001	0.002	ug/L	49.525
|	Ni r	60	163.337	461.019	-0.223	ug/L	5.654
|	Ni	62	146.003	171.004	-0.177	ug/L	24.766
|	Cu r	63	634.033	603.697	-0.006	ug/L	99.854
⌊	Cu	65	298.342	289.675	-0.010	ug/L	100.929
⌈	Zn r	66	484.353	537.024	-0.090	ug/L	36.788
|	Zn	67	3349.763	1621.192	8.427	ug/L	5.813
|	Zn	68	641.366	547.025	0.088	ug/L	27.061
|>	Ge	72	129282.499	122013.611		ug/L	
|	As r	75	300.410	223.994	0.051	ug/L	200.272
|	As u	75	4910.950	4344.270	0.262	ug/L	31.255
|	Se r	82	-16.557	7.818	-0.199	ug/L	83.572
|	Se	77	1389.890	1256.524	0.616	ug/L	143.160
⌊	Sr	88	8473.094	250.673	0.540	ug/L	7.075
⌈	Ag r	107	66.001	70.668	-0.001	ug/L	94.343
|	Ag	109	48.334	62.668	-0.003	ug/L	88.706
|	Cd r	111	277.216	294.635	-0.024	ug/L	33.716
|	Cd	106	-2906.358	-2719.513	-0.231	ug/L	342.724
|	Cd	108	-3138.121	-2883.440	-0.929	ug/L	100.530
|	Cd	114	60.359	236.018	-0.059	ug/L	2.528
|	Cd u	111	27.667	99.335	-0.054	ug/L	4.681
|>	In	115	228573.701	216166.642		ug/L	
|	Sb r	123	58.874	58.080	-0.001	ug/L	691.205
⌊	Sb	121	83.668	76.668	0.001	ug/L	568.374

⌈	Sn	118	260.007	148.670	**0.024**	ug/L	6.699
|	Sn r	120	369.346	219.339	**0.024**	ug/L	28.565
|	Ba r	137	134.669	50.001	**0.036**	ug/L	4.079
|	Ba	135	70.668	25.000	**0.034**	ug/L	30.493
|>	Tb	159	256528.871	244819.515		ug/L	
|	Tl r	205	1695.544	839.721	**0.079**	ug/L	44.575
|	Tl	203	686.039	360.345	**0.070**	ug/L	52.681
|	U	238	79.335	24.334	**0.003**	ug/L	22.388
⌊	Pb	208	858.694	6009.054	**-0.400**	ug/L	1.040
	Kr	83	294.009	251.007		ug/L	
	Cl	35	33782747.653	28732582.996		mg/L	
	C	12	501928.805	386459.208		mg/L	
	Y	89	252095.451	239993.678		ug/L	
⌈	Br	79	1260.783	1790.227	**-2.582**	ug/L	15.621
|	Br	81	12335.007	12370.400	**-3.210**	ug/L	17.695
⌊>	Ge-1	72	129282.499	122013.611		ug/L	
	Ru	99	2.333	2.333		ug/L	
	Pd	105	2667.156	2440.412		ug/L	
	Ho	165	238420.999	225360.332		ug/L	
	Th	232	209.338	49.667	**0.012**	ug/L	12.214
⌈	Mo	95	229.006	128.336	**0.035**	ug/L	28.185
|	Mo	97	143.336	76.334	**0.038**	ug/L	26.660
|	Mo r	98	374.014	184.560	**0.042**	ug/L	9.051
|	Rh	103	10.000	13.333		ug/L	
⌊>	In-1	115	228573.701	216166.642		ug/L	
	Ti	47	403.681	308.676		ug/L	
	Li	7	21170.320	24149.430		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: BC~~21301~~-DUP1

Sample Description: 21203 RC 3.14.12

Autosampler Position: 20

Sample Date/Time: Wednesday, March 14, 2012 13:05:52

Dataset File: C:\Elandata\Dataset\EL120216\BC21301-DUP1.095

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

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

Calibration File: C:\Elandata\System\EL120314.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

SITE: DIMOCK WO1202~~0~~04 3001 RC 3.14.12

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	0.667	1.333	-0.001	ug/L	183.174
|>	Li u	6	246936.783	334987.888		ug/L	
L	Li	6	243750.213	333029.370		ug/L	
Γ	Be	9	0.667	1.333	-0.003	ug/L	66.769
|	B	11	8167.754	157.337	20.008	ug/L	3.391
|	Al	27	6772.051	1977.608	0.906	ug/L	5.668
|>	Sc	45	511593.247	443380.651		ug/L	
|	V r	51	4398.734	2664.161	0.146	ug/L	139.606
|	V u	51	135797.000	86078.430	3.844	ug/L	3.793
|	Cr r	52	10886.141	9512.307	-0.012	ug/L	209.494
|	Cr	53	44848.822	28695.823	12.359	ug/L	7.245
|	Mn	55	915680.470	2161.992	85.986	ug/L	1.649
|	Co	59	219.005	47.001	0.022	ug/L	10.132
|	Ni r	60	971.404	461.019	0.274	ug/L	11.135
|	Ni	62	156.670	171.004	-0.173	ug/L	14.536
|	Cu r	63	4857.917	603.697	1.244	ug/L	3.435
L	Cu	65	2383.060	289.675	1.263	ug/L	1.064
Γ	Zn r	66	1655.195	537.024	1.172	ug/L	8.970
|	Zn	67	10925.870	1621.192	47.897	ug/L	6.530
|	Zn	68	26451.036	547.025	36.908	ug/L	5.590
|>	Ge	72	128527.033	122013.611		ug/L	
|	As r	75	4877.054	223.994	3.844	ug/L	4.602
|	As u	75	10093.388	4344.270	4.710	ug/L	7.161
|	Se r	82	23.227	7.818	0.120	ug/L	155.581
|	Se	77	1662.059	1256.524	3.550	ug/L	38.621
L	Sr	88	9411809.992	250.673	623.051	ug/L	4.170
Γ	Ag r	107	55.334	70.668	-0.004	ug/L	15.054
|	Ag	109	41.667	62.668	-0.005	ug/L	30.155
|	Cd r	111	237.050	294.635	-0.059	ug/L	24.454
|	Cd	106	-3586.916	-2719.513	-4.370	ug/L	19.185
|	Cd	108	-3747.387	-2883.440	-5.688	ug/L	17.293
|	Cd	114	47.045	236.018	-0.064	ug/L	2.117
|	Cd u	111	26.000	99.335	-0.056	ug/L	7.270
|>	In	115	238602.469	216166.642		ug/L	
|	Sb r	123	99.100	58.080	0.010	ug/L	28.615
L	Sb	121	101.668	76.668	0.004	ug/L	9.968

⌈	**Sn**	118	309.009	148.670	**0.038**	ug/L	15.109
|	**Sn r**	120	431.016	219.339	**0.037**	ug/L	9.299
|	**Ba r**	137	1529552.489	50.001	**692.165**	ug/L	4.415
|	**Ba**	135	951892.561	25.000	**740.693**	ug/L	5.321
|>	**Tb**	159	248702.045	244819.515		ug/L	
|	**Tl r**	205	789.382	839.721	**-0.006**	ug/L	77.794
|	**Tl**	203	315.676	360.345	**-0.012**	ug/L	93.264
|	**U**	238	91.001	24.334	**0.004**	ug/L	23.000
⌊	**Pb**	208	3360.325	6009.054	**-0.208**	ug/L	3.487
	Kr	83	280.675	251.007		ug/L	
	Cl	35	34934234.828	28732582.996		mg/L	
	C	12	509071.177	386459.208		mg/L	
	Y	89	260328.073	239993.678		ug/L	
⌈	**Br**	79	16659.539	1790.227	**60.372**	ug/L	2.439
|	**Br**	81	27903.135	12370.400	**62.235**	ug/L	2.100
⌊>	**Ge-1**	72	128527.033	122013.611		ug/L	
	Ru	99	3.000	2.333		ug/L	
	Pd	105	3179.356	2440.412		ug/L	
	Ho	165	235013.045	225360.332		ug/L	
	Th	232	227.339	49.667	**0.013**	ug/L	18.620
⌈	**Mo**	95	459.018	128.336	**0.115**	ug/L	6.665
|	**Mo**	97	310.009	76.334	**0.131**	ug/L	8.347
|	**Mo r**	98	727.489	184.560	**0.117**	ug/L	9.381
|	**Rh**	103	202.671	13.333		ug/L	
⌊>	**In-1**	115	238602.469	216166.642		ug/L	
	Ti	47	886.393	308.676		ug/L	
	Li	7	39291.860	24149.430		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: 1203001-02

Sample Description:

Autosampler Position: 21

Sample Date/Time: Wednesday, March 14, 2012 13:10:58

Dataset File: C:\Elandata\Dataset\EL120216\1203001-02.096

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

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

Calibration File: C:\Elandata\System\EL120314.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

SITE: DIMOCK WO1202~~004~~ 3001 RC 3-14-12

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.667	1.333	0.003	ug/L	165.472
|>	Li u	6	246522.705	334987.888		ug/L	
L	Li	6	243280.998	333029.370		ug/L	
⌈	Be	9	1.667	1.333	0.001	ug/L	754.321
|	B	11	8416.033	157.337	20.993	ug/L	5.578
|	Al	27	8014.266	1977.608	1.185	ug/L	9.823
|>	Sc	45	502840.361	443380.651		ug/L	
|	V r	51	4650.102	2664.161	0.182	ug/L	68.664
|	V u	51	133687.578	86078.430	3.868	ug/L	4.877
|	Cr r	52	10671.504	9512.307	-0.016	ug/L	280.057
|	Cr	53	43577.860	28695.823	11.825	ug/L	7.937
|	Mn	55	907861.352	2161.992	86.736	ug/L	4.779
|	Co	59	212.338	47.001	0.022	ug/L	10.192
|	Ni r	60	1056.083	461.019	0.338	ug/L	11.445
|	Ni	62	170.004	171.004	-0.104	ug/L	21.841
|	Cu r	63	4664.462	603.697	1.211	ug/L	4.112
L	Cu	65	2330.043	289.675	1.256	ug/L	1.803
⌈	Zn r	66	1565.508	537.024	1.043	ug/L	5.529
|	Zn	67	10825.054	1621.192	46.267	ug/L	2.017
|	Zn	68	26496.548	547.025	36.224	ug/L	4.271
|>	Ge	72	131034.446	122013.611		ug/L	
|	As r	75	4813.556	223.994	3.716	ug/L	8.340
|	As u	75	10097.395	4344.270	4.547	ug/L	7.247
|	Se r	82	22.897	7.818	0.115	ug/L	96.490
|	Se	77	1613.716	1256.524	2.717	ug/L	30.513
L	Sr	88	9300892.158	250.673	603.683	ug/L	4.857
⌈	Ag r	107	68.334	70.668	-0.001	ug/L	172.151
|	Ag	109	43.667	62.668	-0.004	ug/L	52.401
|	Cd r	111	227.628	294.635	-0.062	ug/L	12.949
|	Cd	106	-3669.634	-2719.513	-5.664	ug/L	12.597
|	Cd	108	-3815.896	-2883.440	-7.324	ug/L	11.591
|	Cd	114	47.078	236.018	-0.064	ug/L	0.918
|	Cd u	111	25.334	99.335	-0.056	ug/L	5.361
|>	In	115	232826.451	216166.642		ug/L	
|	Sb r	123	97.978	58.080	0.010	ug/L	9.951
L	Sb	121	104.002	76.668	0.005	ug/L	33.212

⌈	Sn	118	295.342	148.670	**0.035**	ug/L	30.207
|	Sn r	120	436.350	219.339	**0.038**	ug/L	17.187
|	Ba r	137	1519588.724	50.001	**685.791**	ug/L	4.098
|	Ba	135	926208.296	25.000	**718.768**	ug/L	3.622
|>	Tb	159	249502.244	244819.515		ug/L	
|	Tl r	205	646.034	839.721	**-0.021**	ug/L	6.048
|	Tl	203	265.007	360.345	**-0.024**	ug/L	17.313
|	U	238	64.334	24.334	**0.003**	ug/L	12.007
⌊	Pb	208	3328.313	6009.054	**-0.211**	ug/L	2.762
	Kr	83	280.341	251.007		ug/L	
	Cl	35	34508067.258	28732582.996		mg/L	
	C	12	512005.683	386459.208		mg/L	
	Y	89	255685.130	239993.678		ug/L	
⌈	Br	79	16177.490	1790.227	**57.173**	ug/L	3.232
|	Br	81	27366.552	12370.400	**57.804**	ug/L	5.128
⌊>	Ge-1	72	131034.446	122013.611		ug/L	
	Ru	99	2.667	2.333		ug/L	
	Pd	105	3236.047	2440.412		ug/L	
	Ho	165	241477.535	225360.332		ug/L	
	Th	232	195.338	49.667	**0.011**	ug/L	12.959
⌈	Mo	95	452.685	128.336	**0.116**	ug/L	3.066
|	Mo	97	267.674	76.334	**0.110**	ug/L	10.631
|	Mo r	98	724.822	184.560	**0.121**	ug/L	7.105
|	Rh	103	208.005	13.333		ug/L	
⌊>	In-1	115	232826.451	216166.642		ug/L	
	Ti	47	858.390	308.676		ug/L	
	Li	7	39971.718	24149.430		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: 1203001-03

Sample Description:

Autosampler Position: 22

Sample Date/Time: Wednesday, March 14, 2012 13:16:05

Dataset File: C:\Elandata\Dataset\EL120216\1203001-03.097

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

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

Calibration File: C:\Elandata\System\EL120314.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

SITE: DIMOCK WO1202004 3001 RC 3.14.12

don't use

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.333	1.333	0.001	ug/L	407.123
|>	Li u	6	241900.438	334987.888		ug/L	
⌊	Li	6	238770.495	333029.370		ug/L	
⌈	Be	9	1.333	1.333	-0.001	ug/L	764.914
|	B	11	7870.105	157.337	19.361	ug/L	3.276
|	Al	27	8713.695	1977.608	1.306	ug/L	6.848
|>	Sc	45	509184.942	443380.651		ug/L	
|	V r	51	4357.358	2664.161	0.145	ug/L	233.389
|	V u	51	127203.401	86078.430	3.001	ug/L	8.840
|	Cr r	52	10475.571	9512.307	-0.063	ug/L	81.029
|	Cr	53	42044.385	28695.823	9.609	ug/L	9.473
|	Mn	55	857009.161	2161.992	80.845	ug/L	0.347
|	Co	59	204.338	47.001	0.020	ug/L	5.958
|	Ni r	60	1003.409	461.019	0.297	ug/L	2.110
|	Ni	62	161.337	171.004	-0.150	ug/L	24.623
|	Cu r	63	4158.499	603.697	1.041	ug/L	1.996
⌊	Cu	65	2103.309	289.675	1.097	ug/L	1.524
⌈	Zn r	66	1497.494	537.024	0.972	ug/L	6.890
|	Zn	67	10245.923	1621.192	43.336	ug/L	1.482
|	Zn	68	24417.301	547.025	33.327	ug/L	2.367
|>	Ge	72	130975.787	122013.611		ug/L	
|	As r	75	4634.633	223.994	3.567	ug/L	7.481
|	As u	75	9380.811	4344.270	3.950	ug/L	2.992
|	Se r	82	9.035	7.818	0.007	ug/L	4115.241
|	Se	77	1481.179	1256.524	1.358	ug/L	35.399
⌊	Sr	88	8790441.353	250.673	570.835	ug/L	1.495
⌈	Ag r	107	47.667	70.668	-0.005	ug/L	7.031
|	Ag	109	40.334	62.668	-0.005	ug/L	35.800
|	Cd r	111	218.176	294.635	-0.068	ug/L	23.217
|	Cd	106	-3518.534	-2719.513	-4.568	ug/L	25.766
|	Cd	108	-3663.183	-2883.440	-5.833	ug/L	29.433
|	Cd	114	47.599	236.018	-0.063	ug/L	1.037
|	Cd u	111	20.667	99.335	-0.059	ug/L	10.093
|>	In	115	232423.795	216166.642		ug/L	
|	Sb r	123	96.814	58.080	0.010	ug/L	6.773
⌊	Sb	121	83.668	76.668	0.000	ug/L	825.950

Report Date/Time: Wednesday, March 14, 2012 13:19:27

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Sample ID: 1203001-03

⌈	Sn	118	288.342	148.670	**0.033**	ug/L	5.769
|	Sn r	120	398.348	219.339	**0.031**	ug/L	13.987
|	Ba r	137	1487844.001	50.001	**671.340**	ug/L	2.265
|	Ba	135	904510.120	25.000	**701.739**	ug/L	1.506
|>	Tb	159	249509.436	244819.515		ug/L	
|	Tl r	205	558.026	839.721	**-0.030**	ug/L	15.678
|	Tl	203	230.339	360.345	**-0.032**	ug/L	8.535
|	U	238	74.668	24.334	**0.003**	ug/L	22.522
⌊	Pb	208	3198.624	6009.054	**-0.221**	ug/L	4.168
	Kr	83	302.676	251.007		ug/L	
	Cl	35	33031483.489	28732582.996		mg/L	
	C	12	507573.876	386459.208		mg/L	
	Y	89	258208.810	239993.678		ug/L	
⌈	Br	79	16791.146	1790.227	**59.666**	ug/L	3.795
|	Br	81	28192.551	12370.400	**61.287**	ug/L	8.965
⌊>	Ge-1	72	130975.787	122013.611		ug/L	
	Ru	99	2.333	2.333		ug/L	
	Pd	105	3106.325	2440.412		ug/L	
	Ho	165	237687.167	225360.332		ug/L	
	Th	232	169.337	49.667	**0.009**	ug/L	3.860
⌈	Mo	95	413.349	128.336	**0.102**	ug/L	10.179
|	Mo	97	268.341	76.334	**0.111**	ug/L	16.053
|	Mo r	98	676.373	184.560	**0.110**	ug/L	6.530
|	Rh	103	188.004	13.333		ug/L	
⌊>	In-1	115	232423.795	216166.642		ug/L	
	Ti	47	810.718	308.676		ug/L	
	Li	7	38593.628	24149.430		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: 1203001-04

Sample Description:

Autosampler Position: 23

Sample Date/Time: Wednesday, March 14, 2012 13:21:12

Dataset File: C:\Elandata\Dataset\EL120216\1203001-04.098

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

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

Calibration File: C:\Elandata\System\EL120314.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

SITE: DIMOCK WO1202~~004~~ 3001 RC 3-14-12

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	0.667	1.333	-0.001	ug/L	184.221
|>	Li u	6	244841.194	334987.888		ug/L	
L	Li	6	242132.995	333029.370		ug/L	
Γ	Be	9	0.667	1.333	-0.003	ug/L	70.030
|	B	11	5641.126	157.337	14.038	ug/L	2.965
|	Al	27	9284.441	1977.608	1.462	ug/L	20.278
|>	Sc	45	498961.909	443380.651		ug/L	
|	V r	51	6206.674	2664.161	0.362	ug/L	41.017
|	V u	51	139777.938	86078.430	4.641	ug/L	16.408
|	Cr r	52	11135.166	9512.307	0.062	ug/L	66.205
|	Cr	53	45569.942	28695.823	14.342	ug/L	20.482
|	Mn	55	378090.971	2161.992	36.270	ug/L	4.974
|	Co	59	169.004	47.001	0.016	ug/L	11.216
|	Ni r	60	708.706	461.019	0.121	ug/L	23.715
|	Ni	62	149.670	171.004	-0.187	ug/L	31.174
|	Cu r	63	3832.993	603.697	0.967	ug/L	1.841
L	Cu	65	1822.568	289.675	0.946	ug/L	4.201
Γ	Zn r	66	719.041	537.024	0.141	ug/L	39.667
|	Zn	67	5648.463	1621.192	19.536	ug/L	1.055
|	Zn	68	8649.615	547.025	11.124	ug/L	3.664
|>	Ge	72	132706.506	122013.611		ug/L	
|	As r	75	993.065	223.994	0.604	ug/L	38.301
|	As u	75	7056.645	4344.270	1.924	ug/L	10.212
|	Se r	82	-22.648	7.818	-0.242	ug/L	44.938
|	Se	77	1853.600	1256.524	4.914	ug/L	25.284
L	Sr	88	3847389.785	250.673	246.649	ug/L	3.775
Γ	Ag r	107	47.334	70.668	-0.004	ug/L	31.941
|	Ag	109	30.667	62.668	-0.006	ug/L	12.951
|	Cd r	111	206.556	294.635	-0.068	ug/L	16.136
|	Cd	106	-3257.944	-2719.513	-3.956	ug/L	31.057
|	Cd	108	-3390.509	-2883.440	-4.959	ug/L	28.959
|	Cd	114	45.769	236.018	-0.063	ug/L	3.401
|	Cd u	111	22.667	99.335	-0.057	ug/L	7.744
|>	In	115	220134.547	216166.642		ug/L	
|	Sb r	123	63.238	58.080	0.001	ug/L	148.809
L	Sb	121	71.668	76.668	-0.001	ug/L	218.154

⌈	Sn	118	145.336	148.670	**-0.001**	ug/L	11.756
|	Sn r	120	192.671	219.339	**-0.005**	ug/L	42.745
|	Ba r	137	489476.276	50.001	**223.387**	ug/L	3.076
|	Ba	135	289221.363	25.000	**226.995**	ug/L	4.851
|>	Tb	159	246688.843	244819.515		ug/L	
|	Tl r	205	500.021	839.721	**-0.035**	ug/L	8.850
|	Tl	203	209.338	360.345	**-0.036**	ug/L	11.143
|	U	238	6103.483	24.334	**0.403**	ug/L	4.565
⌊	Pb	208	4594.918	6009.054	**-0.112**	ug/L	16.368
	Kr	83	304.342	251.007		ug/L	
	Cl	35	32438819.537	28732582.996		mg/L	
	C	12	510828.514	386459.208		mg/L	
	Y	89	239997.249	239993.678		ug/L	
⌈	Br	79	3308.752	1790.227	**5.414**	ug/L	34.792
|	Br	81	14319.464	12370.400	**3.523**	ug/L	57.131
⌊>	Ge-1	72	132706.506	122013.611		ug/L	
	Ru	99	1.667	2.333		ug/L	
	Pd	105	2868.897	2440.412		ug/L	
	Ho	165	235933.746	225360.332		ug/L	
	Th	232	140.669	49.667	**0.007**	ug/L	11.225
⌈	Mo	95	575.694	128.336	**0.174**	ug/L	6.780
|	Mo	97	374.013	76.334	**0.186**	ug/L	4.557
|	Mo r	98	955.514	184.560	**0.186**	ug/L	3.157
|	Rh	103	82.001	13.333		ug/L	
⌊>	In-1	115	220134.547	216166.642		ug/L	
	Ti	47	724.708	308.676		ug/L	
	Li	7	33393.328	24149.430		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: 1203001-06

Sample Description:

Autosampler Position: 24

Sample Date/Time: Wednesday, March 14, 2012 13:26:15

Dataset File: C:\Elandata\Dataset\EL120216\1203001-06.099

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

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

Calibration File: C:\Elandata\System\EL120314.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

SITE: DIMOCK WO1202004 1001 CC 3-14-12

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	0.667	1.333	-0.001	ug/L	314.448
|>	Li u	6	255377.127	334987.888		ug/L	
L	Li	6	253611.906	333029.370		ug/L	
Γ	Be	9	0.667	1.333	-0.003	ug/L	135.670
|	B	11	2844.888	157.337	6.577	ug/L	7.638
|	Al	27	4360.279	1977.608	0.407	ug/L	8.851
|>	Sc	45	519250.045	443380.651		ug/L	
|	V r	51	4644.163	2664.161	0.159	ug/L	233.110
|	V u	51	159349.153	86078.430	6.078	ug/L	0.335
|	Cr r	52	12748.350	9512.307	0.222	ug/L	15.480
|	Cr	53	53129.066	28695.823	20.260	ug/L	6.113
|	Mn	55	1465.821	2161.992	-0.099	ug/L	1.323
|	Co	59	61.001	47.001	0.001	ug/L	178.302
|	Ni r	60	122.669	461.019	-0.256	ug/L	3.620
|	Ni	62	130.669	171.004	-0.292	ug/L	11.398
|	Cu r	63	459.352	603.697	-0.073	ug/L	6.083
L	Cu	65	231.339	289.675	-0.065	ug/L	18.553
Γ	Zn r	66	441.684	537.024	-0.168	ug/L	14.015
|	Zn	67	3476.822	1621.192	7.865	ug/L	9.694
|	Zn	68	589.695	547.025	-0.042	ug/L	178.730
|>	Ge	72	138645.036	122013.611		ug/L	
|	As r	75	102.336	223.994	-0.118	ug/L	164.645
|	As u	75	7406.307	4344.270	1.954	ug/L	11.258
|	Se r	82	-2.823	7.818	-0.087	ug/L	140.440
|	Se	77	2298.544	1256.524	8.440	ug/L	16.865
L	Sr	88	8661.628	250.673	0.514	ug/L	1.942
Γ	Ag r	107	44.001	70.668	-0.005	ug/L	26.095
|	Ag	109	25.334	62.668	-0.007	ug/L	13.494
|	Cd r	111	238.382	294.635	-0.061	ug/L	18.032
|	Cd	106	-3042.661	-2719.513	0.047	ug/L	2435.056
|	Cd	108	-3220.675	-2883.440	0.118	ug/L	1386.408
|	Cd	114	37.672	236.018	-0.067	ug/L	3.026
|	Cd u	111	22.334	99.335	-0.059	ug/L	2.281
|>	In	115	242386.530	216166.642		ug/L	
|	Sb r	123	50.958	58.080	-0.004	ug/L	61.522
L	Sb	121	71.668	76.668	-0.003	ug/L	27.583

⌈	Sn	118	745.377	148.670	**0.130**	ug/L	5.823
|	Sn r	120	1040.081	219.339	**0.131**	ug/L	6.891
|	Ba r	137	133.336	50.001	**0.033**	ug/L	7.538
|	Ba	135	76.001	25.000	**0.035**	ug/L	11.870
|>	Tb	159	268447.201	244819.515		ug/L	
|	Tl r	205	535.357	839.721	**-0.036**	ug/L	6.514
|	Tl	203	204.671	360.345	**-0.041**	ug/L	1.173
|	U	238	15.000	24.334	**-0.001**	ug/L	24.057
⌊	Pb	208	739.354	6009.054	**-0.411**	ug/L	0.168
	Kr	83	286.342	251.007		ug/L	
	Cl	35	33934579.720	28732582.996		mg/L	
	C	12	513746.244	386459.208		mg/L	
	Y	89	263146.488	239993.678		ug/L	
⌈	Br	79	1893.585	1790.227	**-0.532**	ug/L	42.996
|	Br	81	13582.784	12370.400	**-1.835**	ug/L	41.317
⌊>	Ge-1	72	138645.036	122013.611		ug/L	
	Ru	99	1.667	2.333		ug/L	
	Pd	105	2720.509	2440.412		ug/L	
	Ho	165	255082.365	225360.332		ug/L	
	Th	232	139.003	49.667	**0.007**	ug/L	19.518
⌈	Mo	95	181.671	128.336	**0.014**	ug/L	58.293
|	Mo	97	111.002	76.334	**0.015**	ug/L	40.957
|	Mo r	98	290.528	184.560	**0.018**	ug/L	37.079
|	Rh	103	7.333	13.333		ug/L	
⌊>	In-1	115	242386.530	216166.642		ug/L	
	Ti	47	420.682	308.676		ug/L	
	Li	7	21765.978	24149.430		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: 1203001-07

Sample Description:
Autosampler Position: 25
Sample Date/Time: Wednesday, March 14, 2012 13:31:16
Dataset File: C:\Elandata\Dataset\EL120216\1203001-07.100
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File: C:\Elandata\System\EL120314.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1202004 3001 EL 3-14-12

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	0.667	1.333	-0.001	ug/L	189.182
|>	Li u	6	249514.908	334987.888		ug/L	
L	Li	6	247653.846	333029.370		ug/L	
Γ	Be	9	0.667	1.333	-0.003	ug/L	66.072
|	B	11	1746.217	157.337	3.918	ug/L	10.976
|	Al	27	23387.976	1977.608	4.255	ug/L	11.518
|>	Sc	45	511991.864	443380.651		ug/L	
|	V r	51	5737.466	2664.161	0.292	ug/L	22.548
|	V u	51	180549.368	86078.430	8.546	ug/L	6.790
|	Cr r	52	13084.917	9512.307	0.293	ug/L	4.913
|	Cr	53	60052.602	28695.823	28.309	ug/L	8.195
|	Mn	55	2657.487	2161.992	0.015	ug/L	117.691
|	Co	59	315.343	47.001	0.035	ug/L	12.537
|	Ni r	60	1206.774	461.019	0.420	ug/L	20.970
|	Ni	62	160.003	171.004	-0.160	ug/L	28.814
|	Cu r	63	63158.290	603.697	18.666	ug/L	10.584
L	Cu	65	30257.918	289.675	18.446	ug/L	12.320
Γ	Zn r	66	4818.897	537.024	4.407	ug/L	9.254
|	Zn	67	4633.108	1621.192	14.425	ug/L	3.191
|	Zn	68	4768.199	547.025	5.761	ug/L	10.048
|>	Ge	72	132737.131	122013.611		ug/L	
|	As r	75	-92.102	223.994	-0.269	ug/L	12.208
|	As u	75	9574.064	4344.270	4.005	ug/L	11.830
|	Se r	82	1.722	7.818	-0.052	ug/L	134.534
|	Se	77	2931.972	1256.524	15.839	ug/L	16.775
L	Sr	88	474324.937	250.673	30.380	ug/L	12.518
Γ	Ag r	107	58.001	70.668	-0.003	ug/L	63.737
|	Ag	109	48.334	62.668	-0.003	ug/L	15.987
|	Cd r	111	250.741	294.635	-0.046	ug/L	9.358
|	Cd	106	-3241.220	-2719.513	-2.329	ug/L	27.991
|	Cd	108	-3395.782	-2883.440	-2.909	ug/L	28.098
|	Cd	114	118.725	236.018	-0.042	ug/L	5.590
|	Cd u	111	51.334	99.335	-0.038	ug/L	11.016
|>	In	115	233415.951	216166.642		ug/L	
|	Sb r	123	89.789	58.080	0.008	ug/L	40.227
L	Sb	121	98.002	76.668	0.003	ug/L	113.599

⌈	Sn	118	147.003	148.670	**-0.002**	ug/L	66.930
|	Sn r	120	179.004	219.339	**-0.009**	ug/L	34.952
|	Ba r	137	66956.651	50.001	**29.252**	ug/L	11.051
|	Ba	135	38776.781	25.000	**29.138**	ug/L	12.416
|>	Tb	159	257515.123	244819.515		ug/L	
|	Tl r	205	468.352	839.721	**-0.040**	ug/L	2.188
|	Tl	203	182.337	360.345	**-0.045**	ug/L	7.241
|	U	238	3127.004	24.334	**0.197**	ug/L	10.613
⌊	Pb	208	6676.203	6009.054	**0.026**	ug/L	190.300
	Kr	83	262.007	251.007		ug/L	
	Cl	35	36354417.384	28732582.996		mg/L	
	C	12	514260.199	386459.208		mg/L	
	Y	89	256755.448	239993.678		ug/L	
⌈	Br	79	3422.132	1790.227	**5.839**	ug/L	18.625
|	Br	81	14601.002	12370.400	**4.625**	ug/L	39.215
⌊>	Ge-1	72	132737.131	122013.611		ug/L	
	Ru	99	1.000	2.333		ug/L	
	Pd	105	2877.567	2440.412		ug/L	
	Ho	165	243971.594	225360.332		ug/L	
	Th	232	138.003	49.667	**0.007**	ug/L	19.836
⌈	Mo	95	207.005	128.336	**0.025**	ug/L	9.172
|	Mo	97	108.335	76.334	**0.015**	ug/L	21.206
|	Mo r	98	305.825	184.560	**0.024**	ug/L	10.764
|	Rh	103	26.334	13.333		ug/L	
⌊>	In-1	115	233415.951	216166.642		ug/L	
	Ti	47	669.703	308.676		ug/L	
	Li	7	22947.743	24149.430		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: 1203001-08

Sample Description:

Autosampler Position: 26

Sample Date/Time: Wednesday, March 14, 2012 13:36:16

Dataset File: C:\Elandata\Dataset\EL120216\1203001-08.101

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

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

Calibration File: C:\Elandata\System\EL120314.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

SITE: DIMOCK WO1202004 3001 RC 3-14-12

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	2.333	1.333	0.005	ug/L	104.363
|>	Li u	6	238475.245	334987.888		ug/L	
⌊	Li	6	236644.683	333029.370		ug/L	
⌈	Be	9	2.333	1.333	0.003	ug/L	191.039
|	B	11	1773.892	157.337	3.948	ug/L	13.709
|	Al	27	22766.072	1977.608	4.094	ug/L	9.810
|>	Sc	45	515750.636	443380.651		ug/L	
|	V r	51	2647.375	2664.161	-0.050	ug/L	434.199
|	V u	51	189565.172	86078.430	9.341	ug/L	8.923
|	Cr r	52	13864.637	9512.307	0.387	ug/L	12.167
|	Cr	53	63514.299	28695.823	31.440	ug/L	7.921
|	Mn	55	2986.944	2161.992	0.044	ug/L	19.568
|	Co	59	361.346	47.001	0.040	ug/L	16.941
|	Ni r	60	1318.127	461.019	0.483	ug/L	11.524
|	Ni	62	173.004	171.004	-0.110	ug/L	11.463
|	Cu r	63	30970.675	603.697	8.966	ug/L	8.341
⌊	Cu	65	14839.539	289.675	8.863	ug/L	7.667
⌈	Zn r	66	7208.458	537.024	6.762	ug/L	7.518
|	Zn	67	5110.749	1621.192	16.371	ug/L	5.299
|	Zn	68	6537.519	547.025	8.042	ug/L	8.215
|>	Ge	72	135154.900	122013.611		ug/L	
|	As r	75	123.318	223.994	-0.098	ug/L	86.066
|	As u	75	10285.336	4344.270	4.443	ug/L	15.299
|	Se r	82	14.351	7.818	0.044	ug/L	145.454
|	Se	77	3172.381	1256.524	17.702	ug/L	16.976
⌊	Sr	88	475338.796	250.673	29.901	ug/L	10.394
⌈	Ag r	107	59.001	70.668	-0.003	ug/L	19.577
|	Ag	109	48.334	62.668	-0.003	ug/L	33.922
|	Cd r	111	275.121	294.635	-0.029	ug/L	46.640
|	Cd	106	-3023.220	-2719.513	-0.764	ug/L	93.812
|	Cd	108	-3196.499	-2883.440	-1.003	ug/L	79.848
|	Cd	114	144.140	236.018	-0.034	ug/L	10.632
|	Cd u	111	65.001	99.335	-0.029	ug/L	18.108
|>	In	115	232295.090	216166.642		ug/L	
|	Sb r	123	110.536	58.080	0.014	ug/L	28.849
⌊	Sb	121	145.003	76.668	0.013	ug/L	40.203

⌈	Sn	118	144.003	148.670	**-0.004**	ug/L	74.463
|	Sn r	120	209.005	219.339	**-0.004**	ug/L	21.570
|	Ba r	137	70236.484	50.001	**30.047**	ug/L	10.512
|	Ba	135	39615.493	25.000	**29.152**	ug/L	8.105
|>	Tb	159	262569.200	244819.515		ug/L	
|	Tl r	205	490.021	839.721	**-0.039**	ug/L	2.674
|	Tl	203	207.672	360.345	**-0.040**	ug/L	9.430
|	U	238	3328.759	24.334	**0.206**	ug/L	9.338
⌊	Pb	208	10606.333	6009.054	**0.299**	ug/L	18.629
	Kr	83	266.341	251.007		ug/L	
	Cl	35	36566711.551	28732582.996		mg/L	
	C	12	507487.979	386459.208		mg/L	
	Y	89	257712.550	239993.678		ug/L	
⌈	Br	79	3548.191	1790.227	**6.086**	ug/L	19.020
|	Br	81	14722.915	12370.400	**4.078**	ug/L	82.807
⌊>	Ge-1	72	135154.900	122013.611		ug/L	
	Ru	99	1.000	2.333		ug/L	
	Pd	105	2705.170	2440.412		ug/L	
	Ho	165	241650.051	225360.332		ug/L	
	Th	232	113.335	49.667	**0.005**	ug/L	33.846
⌈	Mo	95	192.004	128.336	**0.020**	ug/L	36.776
|	Mo	97	132.669	76.334	**0.030**	ug/L	32.958
|	Mo r	98	329.233	184.560	**0.030**	ug/L	12.327
|	Rh	103	26.667	13.333		ug/L	
⌊>	In-1	115	232295.090	216166.642		ug/L	
	Ti	47	647.034	308.676		ug/L	
	Li	7	22571.668	24149.430		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: 1203001-09

Sample Description:
Autosampler Position: 27
Sample Date/Time: Wednesday, March 14, 2012 13:41:27
Dataset File: C:\Elandata\Dataset\EL120216\1203001-09.102
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File: C:\Elandata\System\EL120314.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	2.333	1.333	0.005	ug/L	47.932
|>	Li u	6	239876.249	334987.888		ug/L	
⌊	Li	6	238038.288	333029.370		ug/L	
⌈	Be	9	2.333	1.333	0.002	ug/L	77.785
|	B	11	1627.856	157.337	3.464	ug/L	14.762
|	Al	27	22652.371	1977.608	3.929	ug/L	12.577
|>	Sc	45	533598.187	443380.651		ug/L	
|	V r	51	3091.878	2664.161	-0.011	ug/L	850.179
|	V u	51	184635.402	86078.430	8.198	ug/L	8.619
|	Cr r	52	13497.971	9512.307	0.276	ug/L	29.425
|	Cr	53	61077.134	28695.823	26.810	ug/L	7.005
|	Mn	55	2706.171	2161.992	0.010	ug/L	189.580
|	Co	59	290.008	47.001	0.030	ug/L	8.902
|	Ni r	60	1229.778	461.019	0.404	ug/L	16.005
|	Ni	62	161.670	171.004	-0.180	ug/L	30.699
|	Cu r	63	29260.007	603.697	8.192	ug/L	9.451
⌊	Cu	65	13758.784	289.675	7.939	ug/L	7.431
⌈	Zn r	66	6830.774	537.024	6.205	ug/L	6.858
|	Zn	67	4847.910	1621.192	14.492	ug/L	3.994
|	Zn	68	5980.724	547.025	7.089	ug/L	6.928
|>	Ge	72	138499.192	122013.611		ug/L	
|	As r	75	65.606	223.994	-0.145	ug/L	104.591
|	As u	75	10242.263	4344.270	4.203	ug/L	9.110
|	Se r	82	11.734	7.818	0.020	ug/L	1018.336
|	Se	77	3250.072	1256.524	17.684	ug/L	4.435
⌊	Sr	88	458879.171	250.673	28.152	ug/L	5.204
⌈	Ag r	107	54.001	70.668	-0.004	ug/L	14.252
|	Ag	109	52.001	62.668	-0.003	ug/L	36.009
|	Cd r	111	260.997	294.635	-0.038	ug/L	22.474
|	Cd	106	-3162.866	-2719.513	-1.898	ug/L	25.621
|	Cd	108	-3325.138	-2883.440	-2.420	ug/L	35.283
|	Cd	114	108.963	236.018	-0.044	ug/L	4.699
|	Cd u	111	57.001	99.335	-0.034	ug/L	12.929
|>	In	115	231845.442	216166.642		ug/L	
|	Sb r	123	83.202	58.080	0.006	ug/L	22.716
⌊	Sb	121	110.669	76.668	0.006	ug/L	66.196

⌈	**Sn**	118	163.003	148.670	**0.000**	ug/L	3713.034
|	**Sn r**	120	205.338	219.339	**-0.006**	ug/L	31.136
|	**Ba r**	137	65139.674	50.001	**27.366**	ug/L	8.932
|	**Ba**	135	37500.612	25.000	**27.101**	ug/L	10.628
|>	**Tb**	159	268111.968	244819.515		ug/L	
|	**Tl r**	205	459.018	839.721	**-0.043**	ug/L	4.682
|	**Tl**	203	192.671	360.345	**-0.044**	ug/L	3.443
|	**U**	238	3062.975	24.334	**0.186**	ug/L	7.745
⌊	**Pb**	208	9739.494	6009.054	**0.223**	ug/L	24.950
	Kr	83	222.339	251.007		ug/L	
	Cl	35	34119801.305	28732582.996		mg/L	
	C	12	499536.856	386459.208		mg/L	
	Y	89	264505.280	239993.678		ug/L	
⌈	**Br**	79	3249.387	1790.227	**4.614**	ug/L	12.496
|	**Br**	81	14850.805	12370.400	**3.149**	ug/L	40.635
⌊>	**Ge-1**	72	138499.192	122013.611		ug/L	
	Ru	99	2.667	2.333		ug/L	
	Pd	105	2816.544	2440.412		ug/L	
	Ho	165	253360.486	225360.332		ug/L	
	Th	232	121.336	49.667	**0.005**	ug/L	21.451
⌈	**Mo**	95	201.005	128.336	**0.024**	ug/L	25.909
|	**Mo**	97	124.002	76.334	**0.025**	ug/L	14.336
|	**Mo r**	98	303.898	184.560	**0.024**	ug/L	19.392
|	**Rh**	103	26.667	13.333		ug/L	
⌊>	**In-1**	115	231845.442	216166.642		ug/L	
	Ti	47	650.368	308.676		ug/L	
	Li	7	22662.898	24149.430		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: BC~~21301~~-MS1

Sample Description: 21203 RC 3/14/12

Autosampler Position: 28

Sample Date/Time: Wednesday, March 14, 2012 13:46:29

Dataset File: C:\Elandata\Dataset\EL120216\BC21301-MS1.103

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

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

Calibration File: C:\Elandata\System\EL120314.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

SITE: DIMOCK WO1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	571.694	1.333	2.198	ug/L	12.125
|>	Li u	6	237550.028	334987.888		ug/L	
L	Li	6	234181.966	333029.370		ug/L	
⌈	Be	9	571.694	1.333	1.952	ug/L	15.306
|	B	11	9954.985	157.337	23.650	ug/L	13.838
|	Al	27	448316.151	1977.608	87.007	ug/L	8.540
|>	Sc	45	528201.708	443380.651		ug/L	
|	V r	51	194277.644	2664.161	20.303	ug/L	12.993
|	V u	51	363616.569	86078.430	26.579	ug/L	14.684
|	Cr r	52	162945.413	9512.307	20.445	ug/L	13.143
|	Cr	53	74831.916	28695.823	41.321	ug/L	15.645
|	Mn	55	223310.174	2161.992	20.087	ug/L	12.821
|	Co	59	155957.504	47.001	20.063	ug/L	12.001
|	Ni r	60	33056.032	461.019	19.580	ug/L	10.911
|	Ni	62	5075.408	171.004	20.073	ug/L	10.169
|	Cu r	63	97421.899	603.697	27.947	ug/L	12.641
L	Cu	65	46481.641	289.675	27.513	ug/L	10.166
⌈	Zn r	66	25716.535	537.024	25.757	ug/L	13.762
|	Zn	67	9105.507	1621.192	36.215	ug/L	14.009
|	Zn	68	21862.241	547.025	28.910	ug/L	15.307
|>	Ge	72	134989.133	122013.611		ug/L	
|	As r	75	24605.702	223.994	19.235	ug/L	13.990
|	As u	75	32673.019	4344.270	22.690	ug/L	17.850
|	Se r	82	2526.910	7.818	19.249	ug/L	13.007
|	Se	77	4636.139	1256.524	32.400	ug/L	24.168
L	Sr	88	744484.765	250.673	46.978	ug/L	14.442
⌈	Ag r	107	13433.053	70.668	2.173	ug/L	15.146
|	Ag	109	12748.159	62.668	2.176	ug/L	13.632
|	Cd r	111	3068.292	294.635	1.901	ug/L	13.770
|	Cd	106	-2973.066	-2719.513	-0.434	ug/L	417.322
|	Cd	108	-3138.763	-2883.440	-0.473	ug/L	447.582
|	Cd	114	6693.254	236.018	1.980	ug/L	11.845
|	Cd u	111	2941.598	99.335	1.950	ug/L	13.072
|>	In	115	232172.369	216166.642		ug/L	
|	Sb r	123	75393.781	58.080	21.342	ug/L	11.651
L	Sb	121	99595.154	76.668	21.234	ug/L	12.274

⌈	Sn	118	91590.323	148.670	**21.209**	ug/L	13.187
|	Sn r	120	121724.049	219.339	**20.670**	ug/L	12.377
|	Ba r	137	239435.994	50.001	**104.315**	ug/L	10.981
|	Ba	135	139214.758	25.000	**104.284**	ug/L	11.735
|>	Tb	159	258143.702	244819.515		ug/L	
|	Tl r	205	202345.529	839.721	**19.382**	ug/L	13.230
|	Tl	203	85130.693	360.345	**19.187**	ug/L	13.337
|	U	238	329328.077	24.334	**20.853**	ug/L	12.383
⌊	Pb	208	284236.111	6009.054	**20.312**	ug/L	10.794
	Kr	83	183.337	251.007		ug/L	
	Cl	35	33474571.422	28732582.996		mg/L	
	C	12	491512.533	386459.208		mg/L	
	Y	89	255127.687	239993.678		ug/L	
⌈	Br	79	5301.557	1790.227	**12.957**	ug/L	18.569
|	Br	81	16482.828	12370.400	**11.196**	ug/L	37.063
⌊>	Ge-1	72	134989.133	122013.611		ug/L	
	Ru	99	9.000	2.333		ug/L	
	Pd	105	2882.903	2440.412		ug/L	
	Ho	165	247215.528	225360.332		ug/L	
	Th	232	195.671	49.667	**0.011**	ug/L	21.620
⌈	Mo	95	55294.529	128.336	**20.460**	ug/L	14.976
|	Mo	97	34925.191	76.334	**20.741**	ug/L	13.580
|	Mo r	98	88864.016	184.560	**20.372**	ug/L	12.649
|	Rh	103	49.334	13.333		ug/L	
⌊>	In-1	115	232172.369	216166.642		ug/L	
	Ti	47	16099.309	308.676		ug/L	
	Li	7	41529.745	24149.430		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: 1203001-11

Sample Description:

Autosampler Position: 29

Sample Date/Time: Wednesday, March 14, 2012 13:51:31

Dataset File: C:\Elandata\Dataset\EL120216\1203001-11.104

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

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

Calibration File: C:\Elandata\System\EL120314.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

SITE: DIMOCK WO1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.333	1.333	0.001	ug/L	398.903
|>	Li u	6	236593.867	334987.888		ug/L	
⌊	Li	6	234822.871	333029.370		ug/L	
⌈	Be	9	1.333	1.333	-0.001	ug/L	517.843
|	B	11	2874.233	157.337	6.542	ug/L	3.045
|	Al	27	4806.217	1977.608	0.482	ug/L	3.022
|>	Sc	45	526657.648	443380.651		ug/L	
|	V r	51	5930.882	2664.161	0.296	ug/L	75.897
|	V u	51	179247.744	86078.430	7.897	ug/L	8.616
|	Cr r	52	14402.618	9512.307	0.423	ug/L	23.945
|	Cr	53	59124.297	28695.823	25.665	ug/L	11.235
|	Mn	55	1410.477	2161.992	-0.106	ug/L	3.209
|	Co	59	59.001	47.001	0.000	ug/L	76.210
|	Ni r	60	182.671	461.019	-0.221	ug/L	2.641
|	Ni	62	160.337	171.004	-0.178	ug/L	42.008
|	Cu r	63	534.357	603.697	-0.053	ug/L	16.070
⌊	Cu	65	234.339	289.675	-0.066	ug/L	13.743
⌈	Zn r	66	537.024	537.024	-0.071	ug/L	12.455
|	Zn	67	3585.205	1621.192	8.451	ug/L	8.463
|	Zn	68	658.035	547.025	0.052	ug/L	161.690
|>	Ge	72	138196.733	122013.611		ug/L	
|	As r	75	-98.274	223.994	-0.269	ug/L	50.110
|	As u	75	8725.370	4344.270	3.018	ug/L	4.088
|	Se r	82	-5.125	7.818	-0.107	ug/L	208.446
|	Se	77	2735.594	1256.524	12.752	ug/L	5.166
⌊	Sr	88	9438.886	250.673	0.563	ug/L	1.381
⌈	Ag r	107	46.334	70.668	-0.005	ug/L	12.356
|	Ag	109	38.667	62.668	-0.005	ug/L	12.567
|	Cd r	111	235.856	294.635	-0.063	ug/L	3.343
|	Cd	106	-3179.537	-2719.513	-0.821	ug/L	52.026
|	Cd	108	-3355.056	-2883.440	-1.015	ug/L	55.846
|	Cd	114	42.635	236.018	-0.065	ug/L	3.941
|	Cd u	111	19.000	99.335	-0.061	ug/L	1.987
|>	In	115	243805.861	216166.642		ug/L	
|	Sb r	123	58.413	58.080	-0.002	ug/L	26.035
⌊	Sb	121	80.335	76.668	-0.001	ug/L	75.608

⌈	Sn	118	200.005	148.670	**0.007**	ug/L	84.123
|	Sn r	120	302.342	219.339	**0.008**	ug/L	81.774
|	Ba r	137	166.670	50.001	**0.044**	ug/L	18.137
|	Ba	135	84.335	25.000	**0.039**	ug/L	11.084
|>	Tb	159	278450.113	244819.515		ug/L	
|	Tl r	205	1248.119	839.721	**0.026**	ug/L	121.973
|	Tl	203	506.022	360.345	**0.020**	ug/L	125.400
|	U	238	61.668	24.334	**0.002**	ug/L	60.983
⌊	Pb	208	788.691	6009.054	**-0.410**	ug/L	0.454
	Kr	83	167.670	251.007		ug/L	
	Cl	35	33451559.727	28732582.996		mg/L	
	C	12	490312.266	386459.208		mg/L	
	Y	89	267841.094	239993.678		ug/L	
⌈	Br	79	1568.176	1790.227	**-1.748**	ug/L	4.821
|	Br	81	12501.282	12370.400	**-5.871**	ug/L	24.259
⌊>	Ge-1	72	138196.733	122013.611		ug/L	
	Ru	99	1.000	2.333		ug/L	
	Pd	105	2835.884	2440.412		ug/L	
	Ho	165	263101.293	225360.332		ug/L	
	Th	232	91.001	49.667	**0.003**	ug/L	28.524
⌈	Mo	95	234.339	128.336	**0.032**	ug/L	21.221
|	Mo	97	151.336	76.334	**0.037**	ug/L	43.966
|	Mo r	98	358.717	184.560	**0.033**	ug/L	20.824
|	Rh	103	6.667	13.333		ug/L	
⌊>	In-1	115	243805.861	216166.642		ug/L	
	Ti	47	388.680	308.676		ug/L	
	Li	7	21837.190	24149.430		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: 1203001-12

Sample Description:

Autosampler Position: 31

Sample Date/Time: Wednesday, March 14, 2012 13:56:34

Dataset File: C:\Elandata\Dataset\EL120216\1203001-12.105

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

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

Calibration File: C:\Elandata\System\EL120314.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

need to rerun INT STDS failed

SITE: DIMOCK WO1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.333	1.333	0.001	ug/L	281.492
|>	Li u	6	284894.210	334987.888		ug/L	
L	Li	6	282766.277	333029.370		ug/L	
⌈	Be	9	1.333	1.333	-0.002	ug/L	72.719
|	B	11	93.001	157.337	-0.283	ug/L	6.320
|	Al	27	1562.510	1977.608	-0.226	ug/L	21.025
|>	Sc	45	694240.152	443380.651		ug/L	
|	V r	51	4548.639	2664.161	0.033	ug/L	254.280
|	V u	51	43546.497	86078.430	-7.088	ug/L	5.093
|	Cr r	52	6602.570	9512.307	-0.851	ug/L	5.692
|	Cr	53	13674.101	28695.823	-24.248	ug/L	4.988
|	Mn	55	3722.273	2161.992	0.024	ug/L	59.973
|	Co	59	96.668	47.001	0.002	ug/L	61.625
|	Ni r	60	533.361	461.019	-0.082	ug/L	181.406
|	Ni	62	165.670	171.004	-0.317	ug/L	35.361
|	Cu r	63	288.675	603.697	-0.144	ug/L	6.900
L	Cu	65	149.670	289.675	-0.138	ug/L	10.152
⌈	Zn r	66	227.339	537.024	-0.451	ug/L	2.492
|	Zn	67	1214.442	1621.192	-4.768	ug/L	15.653
|	Zn	68	326.677	547.025	-0.521	ug/L	3.906
|>	Ge	72	199200.926	122013.611		ug/L	
|	As r	75	1913.543	223.994	0.830	ug/L	10.120
|	As u	75	624.032	4344.270	-3.557	ug/L	2.020
|	Se r	82	-12.175	7.818	-0.129	ug/L	126.078
|	Se	77	-527.900	1256.524	-17.392	ug/L	0.937
L	Sr	88	132.669	250.673	-0.012	ug/L	2.495
⌈	Ag r	107	37.334	70.668	-0.008	ug/L	4.690
|	Ag	109	28.667	62.668	-0.008	ug/L	3.298
|	Cd r	111	247.722	294.635	-0.099	ug/L	32.592
|	Cd	106	-3054.953	-2719.513	6.019	ug/L	84.154
|	Cd	108	-3250.327	-2883.440	8.532	ug/L	83.760
|	Cd	114	28.589	236.018	-0.072	ug/L	3.914
|	Cd u	111	17.667	99.335	-0.065	ug/L	2.927
|>	In	115	337726.504	216166.642		ug/L	
|	Sb r	123	15.582	58.080	-0.015	ug/L	3.424
L	Sb	121	27.334	76.668	-0.014	ug/L	2.469

Report Date/Time: Wednesday, March 14, 2012 13:59:55

Page 1

Sample ID: 1203001-12

⌈	Sn	118	152.003	148.670	**-0.014**	ug/L	19.308
|	Sn r	120	249.340	219.339	**-0.012**	ug/L	22.358
|	Ba r	137	63.668	50.001	**-0.005**	ug/L	42.423
|	Ba	135	37.334	25.000	**-0.002**	ug/L	286.653
|>	Tb	159	406271.994	244819.515		ug/L	
|	Tl r	205	941.067	839.721	**-0.028**	ug/L	19.118
|	Tl	203	401.681	360.345	**-0.028**	ug/L	22.426
|	U	238	15.000	24.334	**-0.001**	ug/L	18.970
⌊	Pb	208	1432.400	6009.054	**-0.397**	ug/L	0.209
	Kr	83	748.377	251.007		ug/L	
	Cl	35	329352.055	28732582.996		mg/L	
	C	12	388583.654	386459.208		mg/L	
	Y	89	408092.713	239993.678		ug/L	
⌈	Br	79	445.017	1790.227	**-6.527**	ug/L	2.902
|	Br	81	5242.842	12370.400	**-40.336**	ug/L	2.519
⌊>	Ge-1	72	199200.926	122013.611		ug/L	
	Ru	99	1.000	2.333		ug/L	
	Pd	105	2745.533	2440.412		ug/L	
	Ho	165	388571.646	225360.332		ug/L	
	Th	232	79.668	49.667	**0.002**	ug/L	76.328
⌈	Mo	95	210.005	128.336	**0.003**	ug/L	377.612
|	Mo	97	124.669	76.334	**0.003**	ug/L	368.026
|	Mo r	98	360.865	184.560	**0.012**	ug/L	60.837
|	Rh	103	14.000	13.333		ug/L	
⌊>	In-1	115	337726.504	216166.642		ug/L	
	Ti	47	258.674	308.676		ug/L	
	Li	7	26238.387	24149.430		mg/L	

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

Measurement Type		Mass	Out of Limits Message
Sc 45 Int Std for sample	Sc	45	out of limits 60-125%
In 115 Int Std for sample	In	115	out of limits 60-125%
Ge-1 72 Int Std for sample	Ge-1	72	out of limits 60-125%
In-1 115 Int Std for sample	In-1	115	out of limits 60-125%

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Wednesday, March 14, 2012 14:01:32
Dataset File: C:\Elandata\Dataset\EL120216\QC Std 2.106
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File: C:\Elandata\System\EL120314.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1203001

high OK

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	13728.714	1.333	59.499	ug/L	0.794
|>	Li u	6	211979.607	334987.888		ug/L	
L	Li	6	210425.212	333029.370		ug/L	
Γ	Be	9	13728.714	1.333	49.132	ug/L	3.185
|	B	11	20947.060	157.337	52.504	ug/L	2.139
|	Al	27	271212.518	1977.608	54.777	ug/L	4.054
|>	Sc	45	506935.527	443380.651		ug/L	
|	V r	51	474755.149	2664.161	52.351	ug/L	3.201
|	V u	51	589370.020	86078.430	52.234	ug/L	4.109
|	Cr r	52	386153.360	9512.307	52.860	ug/L	2.091
|	Cr	53	82317.998	28695.823	52.615	ug/L	7.386
|	Mn	55	561094.036	2161.992	53.103	ug/L	2.030
|	Co	59	397687.929	47.001	53.458	ug/L	3.132
|	Ni r	60	82692.768	461.019	51.662	ug/L	0.805
|	Ni	62	12376.072	171.004	52.394	ug/L	1.520
|	Cu r	63	176329.953	603.697	53.007	ug/L	1.100
L	Cu	65	83649.687	289.675	51.865	ug/L	1.662
Γ	Zn r	66	49074.204	537.024	51.447	ug/L	1.879
|	Zn	67	11846.245	1621.192	51.845	ug/L	6.189
|	Zn	68	37093.292	547.025	51.368	ug/L	3.601
|>	Ge	72	130243.744	122013.611		ug/L	
|	As r	75	62649.199	223.994	50.992	ug/L	2.993
|	As u	75	65328.941	4344.270	51.103	ug/L	2.826
|	Se r	82	6605.086	7.818	52.180	ug/L	3.127
|	Se	77	6416.714	1256.524	52.335	ug/L	0.927
L	Sr	88	807593.885	250.673	52.717	ug/L	1.206
Γ	Ag r	107	303776.808	70.668	52.232	ug/L	1.010
|	Ag	109	287007.304	62.668	52.042	ug/L	1.964
|	Cd r	111	70763.388	294.635	51.432	ug/L	1.218
|	Cd	106	3698.876	-2719.513	52.406	ug/L	1.436
|	Cd	108	1717.448	-2883.440	50.812	ug/L	3.525
|	Cd	114	159233.209	236.018	51.653	ug/L	1.367
|	Cd u	111	70706.231	99.335	51.327	ug/L	1.137
|>	In	115	219823.547	216166.642		ug/L	
|	Sb r	123	174330.270	58.080	52.181	ug/L	1.978
L	Sb	121	229014.969	76.668	51.633	ug/L	2.482

⌈	Sn	118	214994.619	148.670	**51.365**	ug/L	0.576
|	Sn r	120	296295.407	219.339	**51.915**	ug/L	0.998
|	Ba r	137	114970.965	50.001	**51.612**	ug/L	0.182
|	Ba	135	65382.349	25.000	**50.472**	ug/L	0.562
|>	Tb	159	250623.192	244819.515		ug/L	
|	Tl r	205	521363.941	839.721	**51.613**	ug/L	2.843
|	Tl	203	224313.076	360.345	**52.273**	ug/L	4.440
|	U	238	823938.009	24.334	**53.776**	ug/L	1.314
⌊	Pb	208	709137.717	6009.054	**52.953**	ug/L	0.758
	Kr	83	146.670	251.007		ug/L	
	Cl	35	32600578.218	28732582.996		mg/L	
	C	12	396265.977	386459.208		mg/L	
	Y	89	246651.793	239993.678		ug/L	
⌈	Br	79	13989.184	1790.227	**48.730**	ug/L	2.913
|	Br	81	25209.830	12370.400	**49.575**	ug/L	3.239
⌊>	Ge-1	72	130243.744	122013.611		ug/L	
	Ru	99	18.334	2.333		ug/L	
	Pd	105	2752.187	2440.412		ug/L	
	Ho	165	240283.869	225360.332		ug/L	
	Th	232	775825.715	49.667	**58.249**	ug/L	1.396
⌈	Mo	95	127780.860	128.336	**50.066**	ug/L	2.526
|	Mo	97	81022.614	76.334	**50.930**	ug/L	2.528
|	Mo r	98	205658.862	184.560	**49.901**	ug/L	2.851
|	Rh	103	59.334	13.333		ug/L	
⌊>	In-1	115	219823.547	216166.642		ug/L	
	Ti	47	419.016	308.676		ug/L	
	Li	7	19166.394	24149.430		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%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: R.COSTAS User

Sample ID: QC Std 4

Sample Description:
Autosampler Position: 1
Sample Date/Time: Wednesday, March 14, 2012 14:06:29
Dataset File: C:\Elandata\Dataset\EL120216\QC Std 4.107
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File: C:\Elandata\System\EL120314.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK WO1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	1.000	1.333	0.001	ug/L	816.353
|>	Li u	6	219868.621	334987.888		ug/L	
L	Li	6	218254.765	333029.370		ug/L	
Γ	Be	9	1.000	1.333	-0.002	ug/L	188.424
|	B	11	283.341	157.337	0.264	ug/L	10.397
|	Al	27	2018.952	1977.608	-0.048	ug/L	49.300
|>	Sc	45	505244.961	443380.651		ug/L	
|	V r	51	5085.283	2664.161	0.229	ug/L	27.341
|	V u	51	126296.503	86078.430	3.015	ug/L	29.398
|	Cr r	52	10358.750	9512.307	-0.067	ug/L	120.557
|	Cr	53	41649.784	28695.823	9.552	ug/L	29.897
|	Mn	55	974.405	2161.992	-0.142	ug/L	2.843
|	Co	59	47.334	47.001	-0.001	ug/L	178.316
|	Ni r	60	212.005	461.019	-0.198	ug/L	13.204
|	Ni	62	152.003	171.004	-0.185	ug/L	40.416
|	Cu r	63	397.014	603.697	-0.088	ug/L	7.533
L	Cu	65	194.004	289.675	-0.085	ug/L	10.167
Γ	Zn r	66	317.010	537.024	-0.285	ug/L	7.111
|	Zn	67	3132.339	1621.192	6.566	ug/L	20.380
|	Zn	68	518.356	547.025	-0.120	ug/L	21.775
|>	Ge	72	135441.004	122013.611		ug/L	
|	As r	75	47.398	223.994	-0.159	ug/L	74.792
|	As u	75	4808.220	4344.270	-0.012	ug/L	1670.192
|	Se r	82	19.053	7.818	0.079	ug/L	50.419
|	Se	77	1443.358	1256.524	0.478	ug/L	249.699
L	Sr	88	261.674	250.673	-0.001	ug/L	94.762
Γ	Ag r	107	61.334	70.668	-0.003	ug/L	114.438
|	Ag	109	56.001	62.668	-0.003	ug/L	77.488
|	Cd r	111	258.274	294.635	-0.050	ug/L	13.767
|	Cd	106	-3223.424	-2719.513	-1.019	ug/L	104.153
|	Cd	108	-3396.632	-2883.440	-1.247	ug/L	113.054
|	Cd	114	95.563	236.018	-0.050	ug/L	7.082
|	Cd u	111	41.667	99.335	-0.046	ug/L	1.291
|>	In	115	245429.455	216166.642		ug/L	
|	Sb r	123	46.582	58.080	-0.005	ug/L	17.784
L	Sb	121	62.001	76.668	-0.005	ug/L	31.543

⌈	Sn	118	240.006	148.670	**0.017**	ug/L	45.697
|	Sn r	120	319.343	219.339	**0.013**	ug/L	83.503
|	Ba r	137	54.667	50.001	**-0.000**	ug/L	692.480
|	Ba	135	31.667	25.000	**0.003**	ug/L	46.722
|>	Tb	159	268924.019	244819.515		ug/L	
|	Tl r	205	2303.059	839.721	**0.127**	ug/L	53.009
|	Tl	203	987.745	360.345	**0.128**	ug/L	58.520
|	U	238	91.668	24.334	**0.004**	ug/L	68.078
⌊	Pb	208	912.697	6009.054	**-0.399**	ug/L	1.868
	Kr	83	147.336	251.007		ug/L	
	Cl	35	31701994.084	28732582.996		mg/L	
	C	12	355578.387	386459.208		mg/L	
	Y	89	261890.737	239993.678		ug/L	
⌈	Br	79	2460.418	1790.227	**1.836**	ug/L	11.982
|	Br	81	13370.744	12370.400	**-1.433**	ug/L	19.074
⌊>	Ge-1	72	135441.004	122013.611		ug/L	
	Ru	99	2.000	2.333		ug/L	
	Pd	105	2869.564	2440.412		ug/L	
	Ho	165	256347.704	225360.332		ug/L	
	Th	232	3184.743	49.667	**0.235**	ug/L	34.900
⌈	Mo	95	243.340	128.336	**0.034**	ug/L	37.039
|	Mo	97	149.003	76.334	**0.035**	ug/L	48.742
|	Mo r	98	372.088	184.560	**0.035**	ug/L	22.062
|	Rh	103	8.667	13.333		ug/L	
⌊>	In-1	115	245429.455	216166.642		ug/L	
	Ti	47	331.677	308.676		ug/L	
	Li	7	19899.573	24149.430		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)

X

ICP-MS METALS Technical Review Checklist

(200.8, 6020)

For Internal Use Only

Site Name: Dimock WO#: 1203001

Analyst: RLOSTM2 Date given to Reviewer: _____

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

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

The signature below indicates the following:

1203001-12 only

- 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 3/15/12

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:				
Initial calibration ≥.995	✓			
Meas. PK Width .6 to .7 amu	✓			
Exact Mass & Meas. Mass within 1 amu	✓			
Internal Stds 60-125%	✓			
SCV ±10%;		No	for	U
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 No SCV for U. Does not impact Data.
RC 3.15.12
Flag J
RC 3.16.12

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#: 1203001
Analyst: R Costa

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

Peer Reviewer signature [signature] Date accepted 3/15/12

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:

ICP-MS ELAN 6100 RUN LOG

Computer Name: D0303SLABF103A
Dataset File Path: C:\Elandata\Dataset\EL120315\
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 DIMOCK.mth
Report Date/Time: Thursday, March 15, 2012 12:45:42
Batch ID: WO# 1203001
Analyst: R.COSTAS
Site: DIMOCK
Inst Run: EL120315

R Costas 3.15.12

Report only 1203001-12

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	08:59:31 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\Blank.001	Blank
		Blank	09:04:54 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\Blank.002	Blank
		Standard 1	09:09:50 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\Standard 1.003	Standard #1
		Standard 2	09:14:47 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\Standard 2.004	Standard #2
		Standard 3	09:19:46 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\Standard 3.005	Standard #3
		QC Std 2	09:24:54 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\QC Std 2.006	QC Std #2
		QC Std 4	09:29:51 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\QC Std 4.007	QC Std #4
		QC Std 5	09:34:49 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\QC Std 5.008	QC Std #5
	↓ start	QC Std 6	09:39:47 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\QC Std 6.009	QC Std #6
		Blank	09:46:52 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\Blank.010	Blank
		Standard 1	09:51:48 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\Standard 1.011	Standard #1
		Standard 2	09:56:46 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\Standard 2.012	Standard #2
		Standard 3	10:01:44 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\Standard 3.013	Standard #3
		QC Std 2	10:06:52 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\QC Std 2.014	QC Std #2
		QC Std 4	10:11:49 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\QC Std 4.015	QC Std #4
		QC Std 5	10:16:47 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\QC Std 5.016	QC Std #5
	rerun remake	QC Std 6	10:21:45 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\QC Std 6.017	QC Std #6
RC 3.15.12		QC Std 6	10:27:34 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\QC Std 6.018	QC Std #6
		QC Std 6	10:34:35 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\QC Std 6.019	QC Std #6
		Blank	10:39:44 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\Blank.020	Blank
		QC Std 7	10:46:36 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\QC Std 7.021	QC Std #7
	don't use	1203001-11	10:52:40 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\1203001-11.022	Sample
		1203001-12	10:57:45 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\1203001-12.023	Sample
	REG	1203001-11	11:02:50 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\1203001-11.024	Sample
	REG	1203001-12	11:07:55 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\1203001-12.025	Sample
		QC Std 2	11:12:55 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\QC Std 2.026	QC Std #2
		QC Std 4	11:17:52 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\QC Std 4.027	QC Std #4
	REG	1203001-11	12:23:05 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\1203001-11.028	Sample
	NOT NEEDED	1203001-12	12:28:30 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\1203001-12.029	Sample
		QC Std 2	12:33:29 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\QC Std 2.030	QC Std #2
		QC Std 6 remade	12:40:19 Thu 15-Mar-12	C:\Elandata\Dataset\EL120315\QC Std 6.031	QC Std #6

don't use - for confirmation only

missing page but not needed. RC 4.2.12

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	LCV (diluted value)	x 2.5
QC Std 1 (CAL1) = 10ppb/1ppm (5x of 50ppb)	0.4 ppb (0.4 ppm)= 0.4ml of 10 ppb (CAL1) to 10ml	1.0 (0.10)
QC Std 2 (CAL2/CCV) = 50ppb/5ppm (2x of 100ppb)	0.8 ppb (0.8 ppm) =0.8ml of 10 ppb (CAL1) to 10ml	2.0 (0.20)
QC Std 3 (CAL3) = 100ppb/10ppm	1.0 ppb (0.1 ppm) = 2x dilutionof 2.0 ppb	2.5 (0.25)
QC Std 4 = Blank = ± LCV	2.0 ppb (0.2 ppm) =0.4ml of 50 ppb (CAL2) to 10ml	5.0 (0.50)

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)

EPA - OASQA - ICP-MS Standard/Reagent Preparation

Perkin Elmer ELAN 6100

Analyst: R Costa Date: 3/15/12 Pipets Logbook # 11

Run Filename EL120315 (all electronic files saved using Run Filename) SOP #: R3-QA116

SITE/WO#: DIMOUC 1203001 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:** 3/12 RC

*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:_____

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

ELAN 6100 Daily Performance Report

Sample ID: Sample
Sample Date/Time: Thursday, March 15, 2012 08:50:47
Sample Description:
Method File: C:\Elandata\Method\EPA\epa Daily.mth
Dataset File: C:\Elandata\Dataset\Daily Performance\Sample.132
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

1203001
CES 3/16/12

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Be	9.0	2214.7	2214.719	52.908	2.4
	Co	58.9	100415.0	100414.959	1170.565	1.2
	Mg	24.0	45809.0	45808.954	710.894	1.6
	Rh	102.9	203725.0	203725.044	2881.146	1.4
	In	114.9	229619.3	229619.294	2951.715	1.3
	Pb	208.0	100887.9	100887.928	1474.150	1.5
⌈>	Ba	137.9	195863.4	195863.366	2889.511	1.5
⌊	Ba++	69.0	4793.3	0.024	0.000	1.9
⌈>	Ce	139.9	247527.0	247527.009	4210.224	1.7
⌊	CeO	155.9	6450.6	0.026	0.001	2.2
	Bkgd	220.0	0.7	0.667	0.850	127.5
	C	12.0	417320.4	417320.355	3600.710	0.9
	C	13.0	6580.9	6580.947	69.327	1.1
	U	238.1	232608.5	232608.480	1970.460	0.8
	Kr	83.9	1940.9	1940.878	18.423	0.9
	Kr	82.9	376.9	376.909	8.027	2.1

Current Optimization File Data

Current Value	Description
0.88	Nebulizer Gas Flow
7.25	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	25	5.0	2633.5
Co	59	25	5.8	77996.4
In	115	25	7.3	162111.4

ELAN 6100 Quantitative Analysis - Summary Report

User Name: User

Sample ID: Blank

Sample Description:

Autosampler Position: 1

Sample Date/Time: Thursday, March 15, 2012 09:46:52

Dataset File: C:\Elandata\Dataset\EL120315\Blank.010

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

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

Calibration File:

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

1203001
CEC 4/2/12

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	144.003			ug/L	
|>	Li u	6	281809.338			ug/L	
L	Li	6	279716.379			ug/L	
Γ	Be	9	144.003			ug/L	
|	B	11	250.673			ug/L	
|	Al	27	2958.932			ug/L	
|>	Sc	45	562754.764			ug/L	
|	V r	51	6166.366			ug/L	
|	V u	51	107078.035			ug/L	
|	Cr r	52	11412.241			ug/L	
|	Cr	53	35642.987			ug/L	
|	Mn	55	872.392			ug/L	
|	Co	59	4048.773			ug/L	
|	Ni r	60	242.006			ug/L	
|	Ni	62	167.670			ug/L	
|	Cu r	63	532.690			ug/L	
L	Cu	65	246.340			ug/L	
Γ	Zn r	66	722.375			ug/L	
|	Zn	67	2489.100			ug/L	
|	Zn	68	773.380			ug/L	
|>	Ge	72	155886.169			ug/L	
|	As r	75	43.200			ug/L	
|	As u	75	4405.305			ug/L	
|	Se r	82	5.186			ug/L	
|	Se	77	1356.163			ug/L	
L	Sr	88	195.338			ug/L	
Γ	Ag r	107	75.334			ug/L	
|	Ag	109	51.001			ug/L	
|	Cd r	111	301.429			ug/L	
|	Cd	106	-3560.056			ug/L	
|	Cd	108	-3778.984			ug/L	
|	Cd	114	85.078			ug/L	
|	Cd u	111	40.667			ug/L	
|>	In	115	290479.820			ug/L	
|	Sb r	123	58.455			ug/L	
L	Sb	121	88.001			ug/L	

⌈	Sn	118	158.670	ug/L
|	Sn r	120	208.338	ug/L
|	Ba r	137	1262.783	ug/L
|	Ba	135	715.040	ug/L
|>	Tb	159	317043.234	ug/L
|	Tl r	205	6618.579	ug/L
|	Tl	203	2735.180	ug/L
|	U	238	9438.882	ug/L
L	Pb	208	9191.574	ug/L
	Kr	83	170.337	ug/L
	Cl	35	29074374.350	mg/L
	C	12	382237.862	mg/L
	Y	89	307756.903	ug/L
⌈	Br	79	2146.654	ug/L
|	Br	81	13971.490	ug/L
L>	Ge-1	72	155886.169	ug/L
	Ru	99	3.000	ug/L
	Pd	105	3193.362	ug/L
	Ho	165	302920.753	ug/L
	Th	232	98.002	ug/L
⌈	Mo	95	188.004	ug/L
|	Mo	97	119.335	ug/L
|	Mo r	98	280.009	ug/L
|	Rh	103	7846.746	ug/L
L>	In-1	115	290479.820	ug/L
	Ti	47	319.343	ug/L
	Li	7	25807.144	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: User

Sample ID: Standard 1

Sample Description:
Autosampler Position: 2
Sample Date/Time: Thursday, March 15, 2012 09:51:48
Dataset File: C:\Elandata\Dataset\EL120315\Standard 1.011
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File:
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	4553.393	144.003	10.000	ug/L	2.304
|>	Li u	6	238874.059	281809.338		ug/L	
L	Li	6	236584.606	279716.379		ug/L	
⌈	Be	9	4553.393	144.003	10.000	ug/L	2.009
|	B	11	4650.452	250.673	10.000	ug/L	2.536
|	Al	27	67114.873	2958.932	10.000	ug/L	0.710
|>	Sc	45	569616.283	562754.764		ug/L	
|	V r	51	104457.668	6166.366	10.000	ug/L	1.261
|	V u	51	171440.608	107078.035	10.000	ug/L	4.026
|	Cr r	52	92915.425	11412.241	10.000	ug/L	2.024
|	Cr	53	33052.861	35642.987	10.000	ug/L	24.838
|	Mn	55	125604.017	872.392	10.000	ug/L	3.661
|	Co	59	138003.057	4048.773	10.000	ug/L	2.900
|	Ni r	60	18944.825	242.006	10.000	ug/L	2.776
|	Ni	62	2878.234	167.670	10.000	ug/L	2.857
|	Cu r	63	40283.287	532.690	10.000	ug/L	0.237
L	Cu	65	19327.111	246.340	10.000	ug/L	0.560
⌈	Zn r	66	13407.141	722.375	10.000	ug/L	1.440
|	Zn	67	4463.673	2489.100	10.000	ug/L	3.586
|	Zn	68	10482.910	773.380	10.000	ug/L	1.090
|>	Ge	72	157702.069	155886.169		ug/L	
|	As r	75	14071.982	43.200	10.000	ug/L	2.917
|	As u	75	15787.676	4405.305	10.000	ug/L	3.517
|	Se r	82	1414.957	5.186	10.000	ug/L	2.169
|	Se	77	1707.847	1356.163	10.000	ug/L	24.430
L	Sr	88	182221.093	195.338	10.000	ug/L	3.173
⌈	Ag r	107	70970.030	75.334	10.000	ug/L	1.807
|	Ag	109	67384.871	51.001	10.000	ug/L	2.693
|	Cd r	111	16299.495	301.429	10.000	ug/L	4.058
|	Cd	106	-3765.025	-3560.056	10.000	ug/L	10.943
|	Cd	108	-4358.075	-3778.984	10.000	ug/L	21.330
|	Cd	114	36912.163	85.078	10.000	ug/L	0.785
|	Cd u	111	16077.947	40.667	10.000	ug/L	3.863
|>	In	115	392658.578	290479.820		ug/L	
|	Sb r	123	39433.585	58.455	10.000	ug/L	2.364
L	Sb	121	52268.845	88.001	10.000	ug/L	3.618

⌈	Sn	118	48869.935	158.670	**10.000**	ug/L	2.667
|	Sn r	120	67491.125	208.338	**10.000**	ug/L	2.241
|	Ba r	137	41936.102	1262.783	**10.000**	ug/L	2.384
|	Ba	135	24085.894	715.040	**10.000**	ug/L	3.478
|>	Tb	159	317620.742	317043.234		ug/L	
|	Tl r	205	197276.011	6618.579	**10.000**	ug/L	2.893
|	Tl	203	82252.013	2735.180	**10.000**	ug/L	1.886
|	U	238	317648.075	9438.882	**10.000**	ug/L	2.609
⌊	Pb	208	266778.424	9191.574	**10.000**	ug/L	1.960
	Kr	83	178.671	170.337		ug/L	
	Cl	35	14285627.187	29074374.350		mg/L	
	C	12	483522.208	382237.862		mg/L	
	Y	89	422256.870	307756.903		ug/L	
⌈	Br	79	3973.066	2146.654	**10.000**	ug/L	0.479
|	Br	81	16025.176	13971.490	**10.000**	ug/L	7.728
⌊>	Ge-1	72	157702.069	155886.169		ug/L	
	Ru	99	8.000	3.000		ug/L	
	Pd	105	4691.478	3193.362		ug/L	
	Ho	165	298762.196	302920.753		ug/L	
	Th	232	184480.465	98.002	**10.000**	ug/L	1.620
⌈	Mo	95	28579.615	188.004	**10.000**	ug/L	2.019
|	Mo	97	18092.102	119.335	**10.000**	ug/L	4.258
|	Mo r	98	47213.161	280.009	**10.000**	ug/L	3.391
|	Rh	103	102190.694	7846.746		ug/L	
⌊>	In-1	115	392658.578	290479.820		ug/L	
	Ti	47	370.346	319.343		ug/L	
	Li	7	28229.998	25807.144		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: User

Sample ID: Standard 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Thursday, March 15, 2012 09:56:46
Dataset File: C:\Elandata\Dataset\EL120315\Standard 2.012
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File:
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	15172.101	144.003	**48.958**	ug/L	4.165
|>	Li u	6	252121.094	281809.338		ug/L	
L	Li	6	250133.367	279716.379		ug/L	
Γ	Be	9	15172.101	144.003	**49.197**	ug/L	1.560
|	B	11	21780.689	250.673	**50.017**	ug/L	4.044
|	Al	27	279178.611	2958.932	**49.757**	ug/L	2.794
|>	Sc	45	553364.809	562754.764		ug/L	
|	V r	51	487605.690	6166.366	**50.018**	ug/L	1.341
|	V u	51	591089.305	107078.035	**50.721**	ug/L	2.073
|	Cr r	52	403948.351	11412.241	**49.989**	ug/L	5.256
|	Cr	53	79601.996	35642.987	**52.693**	ug/L	6.248
|	Mn	55	587579.961	872.392	**49.938**	ug/L	2.305
|	Co	59	421630.040	4048.773	**48.952**	ug/L	4.031
|	Ni r	60	87587.747	242.006	**49.924**	ug/L	2.472
|	Ni	62	12962.376	167.670	**49.947**	ug/L	3.529
|	Cu r	63	185108.072	532.690	**49.913**	ug/L	3.477
L	Cu	65	89017.075	246.340	**49.917**	ug/L	3.311
Γ	Zn r	66	53287.466	722.375	**49.775**	ug/L	1.455
|	Zn	67	12787.748	2489.100	**50.264**	ug/L	1.736
|	Zn	68	40708.180	773.380	**49.760**	ug/L	1.529
|>	Ge	72	146285.779	155886.169		ug/L	
|	As r	75	67073.553	43.200	**50.056**	ug/L	0.696
|	As u	75	68601.227	4405.305	**50.357**	ug/L	1.069
|	Se r	82	7143.383	5.186	**50.162**	ug/L	1.725
|	Se	77	6657.080	1356.163	**51.403**	ug/L	2.516
L	Sr	88	841709.867	195.338	**49.993**	ug/L	0.880
Γ	Ag r	107	328619.942	75.334	**50.425**	ug/L	1.318
|	Ag	109	313344.006	51.001	**50.431**	ug/L	2.036
|	Cd r	111	76281.326	301.429	**50.471**	ug/L	1.488
|	Cd	106	3221.395	-3560.056	**50.852**	ug/L	1.844
|	Cd	108	1288.509	-3778.984	**50.894**	ug/L	2.416
|	Cd	114	176345.319	85.078	**50.475**	ug/L	1.119
|	Cd u	111	76390.540	40.667	**50.466**	ug/L	1.438
|>	In	115	284211.298	290479.820		ug/L	
|	Sb r	123	188480.105	58.455	**50.473**	ug/L	2.417
L	Sb	121	249691.277	88.001	**50.473**	ug/L	2.041

⌈	**Sn**	118	227891.041	158.670	**50.016**	ug/L	1.714
|	**Sn r**	120	312706.837	208.338	**50.003**	ug/L	2.576
|	**Ba r**	137	126123.260	1262.783	**49.039**	ug/L	2.840
|	**Ba**	135	72059.741	715.040	**49.023**	ug/L	2.837
|>	**Tb**	159	294520.259	317043.234		ug/L	
|	**Tl r**	205	586608.634	6618.579	**49.014**	ug/L	2.909
|	**Tl**	203	248746.747	2735.180	**49.062**	ug/L	3.105
|	**U**	238	932727.939	9438.882	**48.970**	ug/L	2.533
⌊	**Pb**	208	792645.337	9191.574	**49.014**	ug/L	1.861
	Kr	83	172.337	170.337		ug/L	
	Cl	35	27617418.203	29074374.350		mg/L	
	C	12	448449.630	382237.862		mg/L	
	Y	89	308238.539	307756.903		ug/L	
⌈	**Br**	79	14947.995	2146.654	**50.690**	ug/L	3.210
|	**Br**	81	25735.585	13971.490	**50.595**	ug/L	4.497
⌊>	**Ge-1**	72	146285.779	155886.169		ug/L	
	Ru	99	18.334	3.000		ug/L	
	Pd	105	3530.512	3193.362		ug/L	
	Ho	165	275535.600	302920.753		ug/L	
	Th	232	855623.335	98.002	**49.851**	ug/L	0.715
⌈	**Mo**	95	136939.558	188.004	**50.486**	ug/L	2.149
|	**Mo**	97	84504.197	119.335	**50.447**	ug/L	0.926
|	**Mo r**	98	220962.839	280.009	**50.449**	ug/L	0.375
|	**Rh**	103	22704.693	7846.746		ug/L	
⌊>	**In-1**	115	284211.298	290479.820		ug/L	
	Ti	47	423.683	319.343		ug/L	
	Li	7	24509.582	25807.144		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: User

Sample ID: Standard 3

Sample Description:
Autosampler Position: 4
Sample Date/Time: Thursday, March 15, 2012 10:01:44
Dataset File: C:\Elandata\Dataset\EL120315\Standard 3.013
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File:
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	28413.332	144.003	99.386	ug/L	4.660
|>	Li u	6	239280.320	281809.338		ug/L	
L	Li	6	237487.933	279716.379		ug/L	
Γ	Be	9	28413.332	144.003	98.407	ug/L	0.743
|	B	11	43625.145	250.673	100.189	ug/L	0.807
|	Al	27	543779.631	2958.932	99.495	ug/L	1.748
|>	Sc	45	552113.317	562754.764		ug/L	
|	V r	51	955037.358	6166.366	99.744	ug/L	1.533
|	V u	51	1089231.070	107078.035	100.601	ug/L	1.900
|	Cr r	52	767984.758	11412.241	99.250	ug/L	1.402
|	Cr	53	129389.272	35642.987	102.233	ug/L	3.021
|	Mn	55	1121848.986	872.392	99.061	ug/L	2.536
|	Co	59	779780.256	4048.773	98.019	ug/L	0.449
|	Ni r	60	163661.997	242.006	98.603	ug/L	0.504
|	Ni	62	24205.270	167.670	98.696	ug/L	1.195
|	Cu r	63	346321.478	532.690	98.623	ug/L	0.538
L	Cu	65	167955.806	246.340	98.805	ug/L	0.891
Γ	Zn r	66	100936.047	722.375	98.752	ug/L	2.033
|	Zn	67	21972.894	2489.100	98.640	ug/L	1.306
|	Zn	68	76191.266	773.380	98.539	ug/L	0.849
|>	Ge	72	147244.721	155886.169		ug/L	
|	As r	75	128999.388	43.200	99.075	ug/L	1.934
|	As u	75	130338.646	4405.305	99.563	ug/L	1.468
|	Se r	82	13683.775	5.186	99.035	ug/L	1.577
|	Se	77	12065.832	1356.163	100.460	ug/L	0.492
L	Sr	88	1591762.760	195.338	98.685	ug/L	0.619
Γ	Ag r	107	609347.679	75.334	101.236	ug/L	0.915
|	Ag	109	582229.030	51.001	101.276	ug/L	1.139
|	Cd r	111	144230.625	301.429	101.677	ug/L	0.949
|	Cd	106	10391.247	-3560.056	102.932	ug/L	3.943
|	Cd	108	6857.796	-3778.984	103.139	ug/L	1.836
|	Cd	114	333904.954	85.078	101.672	ug/L	1.257
|	Cd u	111	144702.118	40.667	101.676	ug/L	0.608
|>	In	115	250035.492	290479.820		ug/L	
|	Sb r	123	364044.295	58.455	102.055	ug/L	1.110
L	Sb	121	470311.192	88.001	101.563	ug/L	0.964

Γ	Sn	118	434681.713	158.670	**99.487**	ug/L	2.212
|	Sn r	120	595102.971	208.338	**99.430**	ug/L	0.740
|	Ba r	137	236981.222	1262.783	**98.842**	ug/L	1.814
|	Ba	135	136398.250	715.040	**98.990**	ug/L	2.507
|>	Tb	159	288076.856	317043.234		ug/L	
|	Tl r	205	1067460.511	6618.579	**91.609**	ug/L	0.929
|	Tl	203	458790.636	2735.180	**92.920**	ug/L	2.284
|	U	238	1672193.750	9438.882	**97.790**	ug/L	1.439
L	Pb	208	1464595.674	9191.574	**98.484**	ug/L	0.894
	Kr	83	172.337	170.337		ug/L	
	Cl	35	32655400.197	29074374.350		mg/L	
	C	12	445537.462	382237.862		mg/L	
	Y	89	274636.879	307756.903		ug/L	
Γ	Br	79	27121.336	2146.654	**99.514**	ug/L	1.194
|	Br	81	38142.052	13971.490	**99.860**	ug/L	2.599
L>	Ge-1	72	147244.721	155886.169		ug/L	
	Ru	99	35.334	3.000		ug/L	
	Pd	105	3126.333	3193.362		ug/L	
	Ho	165	272797.219	302920.753		ug/L	
	Th	232	1589162.236	98.002	**98.376**	ug/L	2.509
Γ	Mo	95	259248.742	188.004	**101.681**	ug/L	1.689
|	Mo	97	168993.186	119.335	**102.728**	ug/L	1.537
|	Mo r	98	424227.139	280.009	**101.943**	ug/L	1.376
|	Rh	103	129.002	7846.746		ug/L	
L>	In-1	115	250035.492	290479.820		ug/L	
	Ti	47	507.689	319.343		ug/L	
	Li	7	22100.949	25807.144		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

ELAN 6100 Quantitative Analysis - Summary Report

User Name: User

Sample ID: QC Std 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Thursday, March 15, 2012 10:06:52
Dataset File: C:\Elandata\Dataset\EL120315\QC Std 2.014
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File:
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	14225.952	144.003	52.184	ug/L	4.841
|>	Li u	6	227295.225	281809.338		ug/L	
⌊	Li	6	225455.415	279716.379		ug/L	
⌈	Be	9	14225.952	144.003	48.764	ug/L	1.428
|	B	11	20941.016	250.673	47.561	ug/L	3.876
|	Al	27	283581.232	2958.932	51.368	ug/L	3.531
|>	Sc	45	555130.660	562754.764		ug/L	
|	V r	51	478800.062	6166.366	49.431	ug/L	3.142
|	V u	51	592416.532	107078.035	49.508	ug/L	3.738
|	Cr r	52	400262.119	11412.241	50.769	ug/L	4.805
|	Cr	53	83373.541	35642.987	51.973	ug/L	8.904
|	Mn	55	585299.407	872.392	51.385	ug/L	4.054
|	Co	59	416624.053	4048.773	51.879	ug/L	3.832
|	Ni r	60	84559.406	242.006	50.620	ug/L	2.537
|	Ni	62	12557.701	167.670	50.613	ug/L	2.140
|	Cu r	63	178504.397	532.690	50.501	ug/L	2.730
⌊	Cu	65	88533.491	246.340	51.757	ug/L	3.207
⌈	Zn r	66	52543.047	722.375	51.047	ug/L	1.990
|	Zn	67	12937.338	2489.100	53.184	ug/L	4.535
|	Zn	68	40711.200	773.380	52.182	ug/L	3.134
|>	Ge	72	147381.795	155886.169		ug/L	
|	As r	75	66104.859	43.200	50.736	ug/L	3.941
|	As u	75	68224.985	4405.305	50.530	ug/L	4.392
|	Se r	82	6871.830	5.186	49.689	ug/L	2.546
|	Se	77	6577.375	1356.163	49.309	ug/L	4.280
⌊	Sr	88	835049.024	195.338	51.738	ug/L	3.193
⌈	Ag r	107	328419.979	75.334	48.858	ug/L	2.074
|	Ag	109	307247.349	51.001	47.879	ug/L	3.410
|	Cd r	111	76043.383	301.429	47.926	ug/L	3.293
|	Cd	106	3122.170	-3560.056	44.826	ug/L	1.900
|	Cd	108	1334.650	-3778.984	45.368	ug/L	0.588
|	Cd	114	169778.715	85.078	46.289	ug/L	2.080
|	Cd u	111	76236.402	40.667	47.974	ug/L	3.263
|>	In	115	279266.655	290479.820		ug/L	
|	Sb r	123	183846.995	58.455	46.179	ug/L	4.926
⌊	Sb	121	248780.634	88.001	48.129	ug/L	3.860

⌈	Sn	118	223797.479	158.670	**49.964**	ug/L	1.423
|	Sn r	120	306673.678	208.338	**49.986**	ug/L	1.824
|	Ba r	137	123117.056	1262.783	**49.884**	ug/L	3.955
|	Ba	135	71384.492	715.040	**50.331**	ug/L	3.521
|>	Tb	159	295215.958	317043.234		ug/L	
|	Tl r	205	591129.333	6618.579	**49.290**	ug/L	5.946
|	Tl	203	246600.648	2735.180	**48.525**	ug/L	4.935
|	U	238	913016.257	9438.882	**51.875**	ug/L	3.704
⌊	Pb	208	793702.907	9191.574	**51.832**	ug/L	4.247
	Kr	83	167.670	170.337		ug/L	
	Cl	35	27697056.716	29074374.350		mg/L	
	C	12	429580.011	382237.862		mg/L	
	Y	89	308553.844	307756.903		ug/L	
⌈	Br	79	15142.714	2146.654	**51.997**	ug/L	5.454
|	Br	81	25815.544	13971.490	**50.501**	ug/L	11.967
⌊>	Ge-1	72	147381.795	155886.169		ug/L	
	Ru	99	19.334	3.000		ug/L	
	Pd	105	3407.122	3193.362		ug/L	
	Ho	165	277054.584	302920.753		ug/L	
	Th	232	838060.445	98.002	**51.877**	ug/L	3.933
⌈	Mo	95	134098.239	188.004	**47.085**	ug/L	3.805
|	Mo	97	82941.372	119.335	**45.138**	ug/L	4.405
|	Mo r	98	216901.727	280.009	**46.651**	ug/L	2.074
|	Rh	103	22773.589	7846.746		ug/L	
⌊>	In-1	115	279266.655	290479.820		ug/L	
	Ti	47	427.349	319.343		ug/L	
	Li	7	22685.695	25807.144		mg/L	

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

Measurement Type		Mass	Out of Limits Message
QC Std 2	Cd	106	CCV (CLC) is out of limits (+/- 10%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: User

Sample ID: QC Std 4

Sample Description:
Autosampler Position: 1
Sample Date/Time: Thursday, March 15, 2012 10:11:49
Dataset File: C:\Elandata\Dataset\EL120315\QC Std 4.015
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File:
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	144.336	144.003	0.067	ug/L	66.876
|>	Li u	6	244117.989	281809.338		ug/L	
⌊	Li	6	242217.582	279716.379		ug/L	
⌈	Be	9	144.336	144.003	0.019	ug/L	248.850
|	B	11	413.349	250.673	0.404	ug/L	43.048
|	Al	27	3137.338	2958.932	0.053	ug/L	40.080
|>	Sc	45	542679.054	562754.764		ug/L	
|	V r	51	4819.356	6166.366	-0.121	ug/L	92.585
|	V u	51	122571.338	107078.035	2.006	ug/L	27.068
|	Cr r	52	10369.429	11412.241	-0.085	ug/L	56.612
|	Cr	53	40240.875	35642.987	6.455	ug/L	27.038
|	Mn	55	781.714	872.392	-0.005	ug/L	96.698
|	Co	59	4019.758	4048.773	0.015	ug/L	103.167
|	Ni r	60	201.005	242.006	-0.020	ug/L	58.539
|	Ni	62	148.003	167.670	-0.057	ug/L	89.554
|	Cu r	63	503.021	532.690	-0.003	ug/L	194.607
⌊	Cu	65	260.340	246.340	0.014	ug/L	73.926
⌈	Zn r	66	716.374	722.375	0.016	ug/L	140.342
|	Zn	67	3228.045	2489.100	4.007	ug/L	30.038
|	Zn	68	816.718	773.380	0.086	ug/L	20.784
|>	Ge	72	151025.683	155886.169		ug/L	
|	As r	75	42.395	43.200	0.001	ug/L	16068.598
|	As u	75	4273.897	4405.305	0.005	ug/L	2625.034
|	Se r	82	-7.899	5.186	-0.091	ug/L	76.066
|	Se	77	1249.734	1356.163	-0.581	ug/L	87.189
⌊	Sr	88	212.672	195.338	0.001	ug/L	35.271
⌈	Ag r	107	88.668	75.334	0.002	ug/L	102.745
|	Ag	109	70.001	51.001	0.003	ug/L	44.067
|	Cd r	111	290.259	301.429	-0.002	ug/L	478.915
|	Cd	106	-3695.520	-3560.056	-1.488	ug/L	66.468
|	Cd	108	-3908.532	-3778.984	-1.979	ug/L	63.199
|	Cd	114	64.317	85.078	-0.005	ug/L	67.100
|	Cd u	111	30.667	40.667	-0.006	ug/L	33.245
|>	In	115	283584.245	290479.820		ug/L	
|	Sb r	123	66.122	58.455	0.002	ug/L	105.030
⌊	Sb	121	85.001	88.001	-0.000	ug/L	1700.315

⌈	Sn	118	274.008	158.670	**0.025**	ug/L	33.563
|	Sn r	120	358.345	208.338	**0.024**	ug/L	27.147
|	Ba r	137	1250.114	1262.783	**0.007**	ug/L	72.679
|	Ba	135	714.374	715.040	**0.011**	ug/L	234.238
|>	Tb	159	309598.563	317043.234		ug/L	
|	Tl r	205	8814.830	6618.579	**0.189**	ug/L	33.970
|	Tl	203	3635.232	2735.180	**0.183**	ug/L	31.527
|	U	238	9653.150	9438.882	**0.024**	ug/L	32.629
⌊	Pb	208	8889.430	9191.574	**-0.005**	ug/L	214.491
	Kr	83	180.004	170.337		ug/L	
	Cl	35	28975108.214	29074374.350		mg/L	
	C	12	377441.331	382237.862		mg/L	
	Y	89	301493.595	307756.903		ug/L	
⌈	Br	79	2450.748	2146.654	**1.434**	ug/L	8.835
|	Br	81	13312.311	13971.490	**-0.875**	ug/L	73.331
⌊>	Ge-1	72	151025.683	155886.169		ug/L	
	Ru	99	3.000	3.000		ug/L	
	Pd	105	3302.409	3193.362		ug/L	
	Ho	165	291009.574	302920.753		ug/L	
	Th	232	948.402	98.002	**0.053**	ug/L	13.567
⌈	Mo	95	258.340	188.004	**0.026**	ug/L	34.805
|	Mo	97	151.670	119.335	**0.019**	ug/L	50.530
|	Mo r	98	411.498	280.009	**0.029**	ug/L	31.728
|	Rh	103	7768.999	7846.746		ug/L	
⌊>	In-1	115	283584.245	290479.820		ug/L	
	Ti	47	311.343	319.343		ug/L	
	Li	7	23432.876	25807.144		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	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: User

Sample ID: QC Std 5

Sample Description:
Autosampler Position: 5
Sample Date/Time: Thursday, March 15, 2012 10:16:47
Dataset File: C:\Elandata\Dataset\EL120315\QC Std 5.016
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File:
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	28907.839	144.003	**94.952**	ug/L	0.591
|>	Li u	6	254346.818	281809.338		ug/L	
L	Li	6	244667.434	279716.379		ug/L	
Γ	Be	9	28907.839	144.003	**100.176**	ug/L	0.564
|	B	11	44028.138	250.673	**101.172**	ug/L	2.573
|	Al	27	549548.670	2958.932	**100.594**	ug/L	0.940
|>	Sc	45	551832.359	562754.764		ug/L	
|	V r	51	951813.244	6166.366	**99.455**	ug/L	2.381
|	V u	51	1071006.056	107078.035	**98.789**	ug/L	2.117
|	Cr r	52	792078.198	11412.241	**102.453**	ug/L	1.896
|	Cr	53	126376.594	35642.987	**99.024**	ug/L	0.404
|	Mn	55	1135461.548	872.392	**100.295**	ug/L	0.486
|	Co	59	803321.814	4048.773	**101.040**	ug/L	1.224
|	Ni r	60	168240.244	242.006	**101.421**	ug/L	0.264
|	Ni	62	24885.772	167.670	**101.538**	ug/L	0.391
|	Cu r	63	360428.107	532.690	**102.695**	ug/L	0.471
L	Cu	65	175554.972	246.340	**103.340**	ug/L	3.604
Γ	Zn r	66	104357.864	722.375	**104.464**	ug/L	1.246
|	Zn	67	22293.821	2489.100	**102.800**	ug/L	0.931
|	Zn	68	79212.580	773.380	**104.854**	ug/L	1.976
|>	Ge	72	143966.563	155886.169		ug/L	
|	As r	75	127960.505	43.200	**100.512**	ug/L	0.521
|	As u	75	127439.344	4405.305	**99.565**	ug/L	1.412
|	Se r	82	14049.726	5.186	**103.991**	ug/L	1.127
|	Se	77	11954.941	1356.163	**101.973**	ug/L	3.042
L	Sr	88	1601079.579	195.338	**101.521**	ug/L	1.228
Γ	Ag r	107	301209.179	75.334	**50.230**	ug/L	1.069
|	Ag	109	291234.504	51.001	**50.858**	ug/L	1.501
|	Cd r	111	150735.509	301.429	**106.690**	ug/L	1.272
|	Cd	106	10898.216	-3560.056	**107.120**	ug/L	1.618
|	Cd	108	7190.619	-3778.984	**106.835**	ug/L	2.270
|	Cd	114	342699.617	85.078	**104.764**	ug/L	2.097
|	Cd u	111	151135.862	40.667	**106.617**	ug/L	1.267
|>	In	115	249051.995	290479.820		ug/L	
|	Sb r	123	364776.324	58.455	**102.663**	ug/L	1.574
L	Sb	121	480129.415	88.001	**104.099**	ug/L	1.348

Γ	Sn	118	177.670	158.670	**0.008**	ug/L	25.860
|	Sn r	120	266.007	208.338	**0.013**	ug/L	15.249
|	Ba r	137	244247.219	1262.783	**102.190**	ug/L	3.195
|	Ba	135	139882.228	715.040	**101.799**	ug/L	1.001
|>	Tb	159	287305.127	317043.234		ug/L	
|	Tl r	205	1103749.765	6618.579	**95.000**	ug/L	1.478
|	Tl	203	473053.619	2735.180	**96.127**	ug/L	2.482
|	U	238	33.667	9438.882	**-0.502**	ug/L	0.058
L	Pb	208	1504238.362	9191.574	**101.448**	ug/L	1.520
	Kr	83	180.337	170.337		ug/L	
	Cl	35	27436483.110	29074374.350		mg/L	
	C	12	403790.614	382237.862		mg/L	
	Y	89	277746.169	307756.903		ug/L	
Γ	Br	79	2295.032	2146.654	**1.269**	ug/L	15.852
|	Br	81	13259.558	13971.490	**1.473**	ug/L	147.445
L>	Ge-1	72	143966.563	155886.169		ug/L	
	Ru	99	33.334	3.000		ug/L	
	Pd	105	3004.617	3193.362		ug/L	
	Ho	165	270264.444	302920.753		ug/L	
	Th	232	2976.663	98.002	**0.178**	ug/L	39.848
Γ	Mo	95	254758.268	188.004	**100.304**	ug/L	0.630
|	Mo	97	160431.772	119.335	**97.901**	ug/L	1.490
|	Mó r	98	427165.960	280.009	**103.056**	ug/L	3.105
|	Rh	103	118.669	7846.746		ug/L	
L>	In-1	115	249051.995	290479.820		ug/L	
	Ti	47	71096.937	319.343		ug/L	
	Li	7	119351.223	25807.144		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%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: User

Sample ID: QC Std 6

Sample Description:
Autosampler Position: 9
Sample Date/Time: Thursday, March 15, 2012 10:21:45
Dataset File: C:\Elandata\Dataset\EL120315\QC Std 6.017
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File:
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

Client use

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1856.243	144.003	6.564	ug/L	2.720
|>	Li u	6	222771.336	281809.338		ug/L	
⌊	Li	6	220612.433	279716.379		ug/L	
⌈	Be	9	1856.243	144.003	5.787	ug/L	1.542
|	B	11	659.035	250.673	0.912	ug/L	29.850
|	Al	27	11556.796	2958.932	1.532	ug/L	3.258
|>	Sc	45	568089.207	562754.764		ug/L	
|	V r	51	9247.835	6166.366	0.309	ug/L	15.749
|	V u	51	75946.633	107078.035	-3.193	ug/L	6.316
|	Cr r	52	14406.622	11412.241	0.368	ug/L	2.958
|	Cr	53	23872.903	35642.987	-12.738	ug/L	4.581
|	Mn	55	6382.377	872.392	0.472	ug/L	0.967
|	Co	59	60198.907	4048.773	6.890	ug/L	0.478
|	Ni r	60	1070.085	242.006	0.484	ug/L	2.960
|	Ni	62	272.341	167.670	0.411	ug/L	20.002
|	Cu r	63	2708.504	532.690	0.602	ug/L	5.136
⌊	Cu	65	1313.125	246.340	0.609	ug/L	3.843
⌈	Zn r	66	3265.392	722.375	2.333	ug/L	2.439
|	Zn	67	2564.787	2489.100	0.232	ug/L	314.257
|	Zn	68	2882.236	773.380	2.564	ug/L	4.715
|>	Ge	72	157586.128	155886.169		ug/L	
|	As r	75	671.956	43.200	0.451	ug/L	9.477
|	As u	75	2675.159	4405.305	-1.311	ug/L	4.734
|	Se r	82	66.837	5.186	0.416	ug/L	24.478
|	Se	77	675.035	1356.163	-6.056	ug/L	2.687
⌊	Sr	88	7924.492	195.338	0.448	ug/L	1.864
⌈	Ag r	107	3020.957	75.334	0.303	ug/L	0.959
|	Ag	109	2842.887	51.001	0.301	ug/L	1.160
|	Cd r	111	1054.944	301.429	0.282	ug/L	5.847
|	Cd	106	-5089.516	-3560.056	-0.868	ug/L	160.216
|	Cd	108	-5387.705	-3778.984	-1.127	ug/L	186.795
|	Cd	114	1577.921	85.078	0.278	ug/L	2.098
|	Cd u	111	706.373	40.667	0.286	ug/L	5.053
|>	In	115	400261.916	290479.820		ug/L	
|	Sb r	123	1673.569	58.455	0.279	ug/L	3.416
⌊	Sb	121	2206.672	88.001	0.282	ug/L	4.551

⌈	Sn	118	2197.003	158.670	**0.424**	ug/L	1.338
|	Sn r	120	3114.662	208.338	**0.441**	ug/L	1.551
|	Ba r	137	17946.779	1262.783	**6.356**	ug/L	0.803
|	Ba	135	10594.399	715.040	**6.551**	ug/L	2.414
|>	Tb	159	316872.099	317043.234		ug/L	
|	Tl r	205	86435.247	6618.579	**6.262**	ug/L	0.958
|	Tl	203	35514.563	2735.180	**6.069**	ug/L	0.474
|	U	238	140914.154	9438.882	**7.025**	ug/L	1.234
⌊	Pb	208	116526.211	9191.574	**6.600**	ug/L	0.810
	Kr	83	172.337	170.337		ug/L	
	Cl	35	11928074.088	29074374.350		mg/L	
	C	12	477040.530	382237.862		mg/L	
	Y	89	442897.824	307756.903		ug/L	
⌈	Br	79	1385.472	2146.654	**-2.906**	ug/L	6.931
|	Br	81	13772.801	13971.490	**-1.310**	ug/L	151.960
⌊>	Ge-1	72	157586.128	155886.169		ug/L	
	Ru	99	4.667	3.000		ug/L	
	Pd	105	4590.088	3193.362		ug/L	
	Ho	165	294825.817	302920.753		ug/L	
	Th	232	6950.209	98.002	**0.424**	ug/L	2.024
⌈	Mo	95	1500.828	188.004	**0.305**	ug/L	8.780
|	Mo	97	955.736	119.335	**0.301**	ug/L	6.488
|	Mo r	98	2471.424	280.009	**0.314**	ug/L	5.825
|	Rh	103	111621.411	7846.746		ug/L	
⌊>	In-1	115	400261.916	290479.820		ug/L	
	Ti	47	352.345	319.343		ug/L	
	Li	7	26620.254	25807.144		mg/L	

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

Measurement Type		Mass	Out of Limits Message
QC Std 6	Be r	9	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Be	9	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	B	11	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Al	27	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	Co	59	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Cu r	63	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Cu	65	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Zn r	66	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 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%)
In 115 Int Std for QC Std	In	115	Out of control 60-125%
QC Std 6	Ba r	137	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Ba	135	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Tl r	205	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Tl	203	LCV (DC1, TV 0.4) is out of limits (+/- 50%)

QC Std 6	U	238	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Pb	208	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%)
In-1 115 Int Std for QC Std	In-1	115	Out of control 60-125%

ELAN 6100 Quantitative Analysis - Summary Report

User Name: User

Sample ID: QC Std 6

Sample Description:
Autosampler Position: 9
Sample Date/Time: Thursday, March 15, 2012 10:27:34
Dataset File: C:\Elandata\Dataset\EL120315\QC Std 6.018
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File:
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

dont use

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	351.678	144.003	0.671	ug/L	3.946
|>	Li u	6	268437.461	281809.338		ug/L	
⌊	Li	6	266425.192	279716.379		ug/L	
⌈	Be	9	351.678	144.003	0.719	ug/L	3.717
|	B	11	516.356	250.673	0.613	ug/L	17.768
|	Al	27	6165.866	2958.932	0.588	ug/L	5.973
|>	Sc	45	558094.986	562754.764		ug/L	
|	V r	51	9362.137	6166.366	0.338	ug/L	13.608
|	V u	51	114535.699	107078.035	0.840	ug/L	119.330
|	Cr r	52	14199.569	11412.241	0.374	ug/L	10.533
|	Cr	53	36423.459	35642.987	1.144	ug/L	267.667
|	Mn	55	5898.320	872.392	0.440	ug/L	4.212
|	Co	59	9805.677	4048.773	0.724	ug/L	2.122
|	Ni r	60	994.408	242.006	0.450	ug/L	1.529
|	Ni	62	290.008	167.670	0.503	ug/L	11.720
|	Cu r	63	2229.679	532.690	0.480	ug/L	5.212
⌊	Cu	65	1098.756	246.340	0.498	ug/L	4.577
⌈	Zn r	66	1333.462	722.375	0.560	ug/L	13.725
|	Zn	67	2717.845	2489.100	0.986	ug/L	158.218
|	Zn	68	1260.116	773.380	0.589	ug/L	9.359
|>	Ge	72	157104.297	155886.169		ug/L	
|	As r	75	689.301	43.200	0.464	ug/L	18.814
|	As u	75	4983.998	4405.305	0.403	ug/L	30.982
|	Se r	82	59.866	5.186	0.372	ug/L	45.226
|	Se	77	1402.183	1356.163	0.313	ug/L	305.367
⌊	Sr	88	7945.515	195.338	0.450	ug/L	2.269
⌈	Ag r	107	3099.655	75.334	0.424	ug/L	2.478
|	Ag	109	2819.212	51.001	0.406	ug/L	4.989
|	Cd r	111	1011.428	301.429	0.420	ug/L	7.608
|	Cd	106	-3646.168	-3560.056	-0.091	ug/L	219.987
|	Cd	108	-3871.781	-3778.984	-0.142	ug/L	256.974
|	Cd	114	1651.744	85.078	0.402	ug/L	0.734
|	Cd u	111	757.045	40.667	0.425	ug/L	6.049
|>	In	115	296396.275	290479.820		ug/L	
|	Sb r	123	1762.426	58.455	0.403	ug/L	1.774
⌊	Sb	121	2315.038	88.001	0.406	ug/L	3.807

⌈	Sn	118	2266.357	158.670	**0.440**	ug/L	1.221
|	Sn r	120	3020.957	208.338	**0.429**	ug/L	3.702
|	Ba r	137	2954.930	1262.783	**0.649**	ug/L	6.130
|	Ba	135	1778.557	715.040	**0.710**	ug/L	4.599
|>	Tb	159	315777.682	317043.234		ug/L	
|	Tl r	205	14367.215	6618.579	**0.612**	ug/L	2.775
|	Tl	203	5888.646	2735.180	**0.588**	ug/L	0.939
|	U	238	22982.857	9438.882	**0.729**	ug/L	6.711
⌊	Pb	208	20025.422	9191.574	**0.671**	ug/L	3.404
	Kr	83	169.004	170.337		ug/L	
	Cl	35	29083849.754	29074374.350		mg/L	
	C	12	407501.190	382237.862		mg/L	
	Y	89	309184.773	307756.903		ug/L	
⌈	Br	79	2312.704	2146.654	**0.557**	ug/L	43.523
|	Br	81	14274.047	13971.490	**0.739**	ug/L	248.372
⌊>	Ge-1	72	157104.297	155886.169		ug/L	
	Ru	99	2.667	3.000		ug/L	
	Pd	105	3312.746	3193.362		ug/L	
	Ho	165	301221.902	302920.753		ug/L	
	Th	232	6615.586	98.002	**0.403**	ug/L	7.270
⌈	Mo	95	1347.798	188.004	**0.383**	ug/L	3.106
|	Mo	97	860.057	119.335	**0.379**	ug/L	7.885
|	Mo r	98	2273.620	280.009	**0.403**	ug/L	4.327
|	Rh	103	11840.559	7846.746		ug/L	
⌊>	In-1	115	296396.275	290479.820		ug/L	
	Ti	47	377.680	319.343		ug/L	
	Li	7	24812.202	25807.144		mg/L	

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

Measurement Type		Mass	Out of Limits Message
QC Std 6	Be r	9	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Be	9	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
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	Co	59	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	Ba r	137	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Ba	135	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Tl r	205	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	U	238	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Pb	208	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%)

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
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	2.977	599	2070	0.699	
Mg	23.985	23.979	5705	2037	0.689	
Rh	102.905	102.879	24966	1975	0.694	
Ce	139.905	139.879	33962	2015	0.695	
Pb	207.977	207.979	50424	2215	0.679	
U	238.050	237.974	57647	2348	0.697	

ELAN 6100 Quantitative Analysis Calibration Report

File Name: EL120315.cal
File Path: C:\Elandata\System\EL120315.cal
Calibration Type: External Calibration
WO#: 1203001
SITE: DIMOCK

Calibration File Name

File Name EL120315.cal

Method File Name

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

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Be r	9.012	Linear Thru Zero	0.00	0.00	0.998756
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	0.998766
B	11.009	Linear Thru Zero	0.00	0.00	0.999993
Al	26.982	Linear Thru Zero	0.01	0.00	0.999888
Sc	44.956	Linear Thru Zero	0.00	0.00	0.000000
V r	50.944	Linear Thru Zero	0.02	0.00	0.999987
V u	50.944	Linear Thru Zero	0.02	0.00	0.999420
Cr r	51.941	Linear Thru Zero	0.01	0.00	0.999892
Cr	52.941	Linear Thru Zero	0.00	0.00	0.992867
Mn	54.938	Linear Thru Zero	0.02	0.00	0.999826
Co	58.933	Linear Thru Zero	0.01	0.00	0.997939
Ni r	59.933	Linear Thru Zero	0.00	0.00	0.999618
Ni	61.928	Linear Thru Zero	0.00	0.00	0.999670
Cu r	62.930	Linear Thru Zero	0.01	0.00	0.999627
Cu	64.928	Linear Thru Zero	0.00	0.00	0.999718
Zn r	65.926	Linear Thru Zero	0.01	0.00	0.999643
Zn	66.927	Linear Thru Zero	0.00	0.00	0.999565
Zn	67.925	Linear Thru Zero	0.01	0.00	0.999523
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
As r	74.922	Linear Thru Zero	0.01	0.00	0.999832
As u	74.922	Linear Thru Zero	0.01	0.00	0.999827
Se r	81.917	Linear Thru Zero	0.00	0.00	0.999792
Se	76.920	Linear Thru Zero	0.00	0.00	0.998004
Sr	87.906	Linear Thru Zero	0.11	0.00	0.999667
Ag r	106.905	Linear Thru Zero	0.02	0.00	0.999537
Ag	108.905	Linear Thru Zero	0.02	0.00	0.999514
Cd r	110.904	Linear Thru Zero	0.01	0.00	0.999260
Cd	105.907	Linear Thru Zero	0.00	0.00	0.997765
Cd	107.904	Linear Thru Zero	0.00	0.00	0.997477
Cd	113.904	Linear Thru Zero	0.01	0.00	0.999260
Cd u	110.904	Linear Thru Zero	0.01	0.00	0.999265
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Sb r	122.904	Linear Thru Zero	0.01	0.00	0.998993
Sb	120.904	Linear Thru Zero	0.02	0.00	0.999327
Sn	117.902	Linear Thru Zero	0.02	0.00	0.999949
Sn r	119.902	Linear Thru Zero	0.02	0.00	0.999937
Ba r	136.905	Linear Thru Zero	0.01	0.00	0.998706

Ba	134.906	Linear Thru Zero	0.00	0.00	0.998744
Tb	158.925	Linear Thru Zero	0.00	0.00	0.000000
Tl r	204.975	Linear Thru Zero	0.04	0.00	0.995177
Tl	202.972	Linear Thru Zero	0.02	0.00	0.995631
U	238.050	Linear Thru Zero	0.06	0.00	0.997781
Pb	207.977	Linear Thru Zero	0.05	0.00	0.998437
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	0.999445
Br	80.916	Linear Thru Zero	0.00	0.00	0.999627
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	16152.90	0.00	0.999468
Mo	94.906	Linear Thru Zero	0.01	0.00	0.999245
Mo	96.906	Linear Thru Zero	0.01	0.00	0.998407
Mo r	97.906	Linear Thru Zero	0.02	0.00	0.999097
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 - Summary Report

User Name: User

Sample ID: QC Std 6

Sample Description:
Autosampler Position: 9
Sample Date/Time: Thursday, March 15, 2012 10:34:35
Dataset File: C:\Elandata\Dataset\EL120315\QC Std 6.019
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File:
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

Be U
Co Pb
Ba
Tl
all high

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	340.344	144.003	0.616	ug/L	8.907
|>	Li u	6	273415.837	281809.338		ug/L	
⌊	Li	6	271332.100	279716.379		ug/L	
⌈	Be	9	340.344	144.003	0.627	ug/L	9.561
|	B	11	471.686	250.673	0.461	ug/L	17.642
|	Al	27	6169.535	2958.932	0.537	ug/L	3.152
|>	Sc	45	584734.924	562754.764		ug/L	
|	V r	51	8726.085	6166.366	0.230	ug/L	30.377
|	V u	51	117996.246	107078.035	0.653	ug/L	131.036
|	Cr r	52	14578.949	11412.241	0.337	ug/L	7.696
|	Cr	53	37705.680	35642.987	0.696	ug/L	499.437
|	Mn	55	5957.366	872.392	0.421	ug/L	1.519
|	Co	59	9999.263	4048.773	0.691	ug/L	4.262
|	Ni r	60	1003.409	242.006	0.428	ug/L	6.155
|	Ni	62	261.007	167.670	0.336	ug/L	6.485
|	Cu r	63	2299.700	532.690	0.470	ug/L	4.751
⌊	Cu	65	1127.427	246.340	0.485	ug/L	1.291
⌈	Zn r	66	1321.460	722.375	0.517	ug/L	0.178
|	Zn	67	2831.554	2489.100	1.181	ug/L	123.538
|	Zn	68	1277.786	773.380	0.570	ug/L	11.305
|>	Ge	72	161179.853	155886.169		ug/L	
|	As r	75	408.032	43.200	0.255	ug/L	60.770
|	As u	75	5106.413	4405.305	0.398	ug/L	31.453
|	Se r	82	47.489	5.186	0.279	ug/L	47.637
|	Se	77	1457.156	1356.163	0.467	ug/L	14.107
⌊	Sr	88	8090.003	195.338	0.447	ug/L	3.474
⌈	Ag r	107	2986.943	75.334	0.396	ug/L	3.047
|	Ag	109	2943.926	51.001	0.412	ug/L	2.635
|	Cd r	111	984.865	301.429	0.387	ug/L	5.321
|	Cd	106	-3897.279	-3560.056	-1.010	ug/L	25.891
|	Cd	108	-4122.872	-3778.984	-1.311	ug/L	38.826
|	Cd	114	1705.291	85.078	0.404	ug/L	1.553
|	Cd u	111	725.041	40.667	0.393	ug/L	3.957
|>	In	115	304834.175	290479.820		ug/L	
|	Sb r	123	1767.591	58.455	0.392	ug/L	4.089
⌊	Sb	121	2340.380	88.001	0.398	ug/L	2.028

⌈	Sn	118	2283.695	158.670	**0.429**	ug/L	2.615
|	Sn r	120	3148.676	208.338	**0.433**	ug/L	4.090
|	Ba r	137	3031.294	1262.783	**0.641**	ug/L	5.215
|	Ba	135	1790.226	715.040	**0.679**	ug/L	7.789
|>	Tb	159	326283.290	317043.234		ug/L	
|	Tl r	205	14883.537	6618.579	**0.615**	ug/L	2.207
|	Tl	203	6073.460	2735.180	**0.586**	ug/L	4.944
|	U	238	23379.723	9438.882	**0.709**	ug/L	1.605
⌊	Pb	208	20665.019	9191.574	**0.669**	ug/L	4.192
	Kr	83	174.004	170.337		ug/L	
	Cl	35	28982553.174	29074374.350		mg/L	
	C	12	408486.128	382237.862		mg/L	
	Y	89	323297.432	307756.903		ug/L	
⌈	Br	79	2342.380	2146.654	**0.445**	ug/L	25.381
|	Br	81	14425.995	13971.490	**-0.076**	ug/L	481.483
⌊>	Ge-1	72	161179.853	155886.169		ug/L	
	Ru	99	1.333	3.000		ug/L	
	Pd	105	3527.177	3193.362		ug/L	
	Ho	165	310365.375	302920.753		ug/L	
	Th	232	6701.662	98.002	**0.409**	ug/L	7.438
⌈	Mo	95	1375.804	188.004	**0.379**	ug/L	7.645
|	Mo	97	845.055	119.335	**0.359**	ug/L	4.009
|	Mo r	98	2203.562	280.009	**0.377**	ug/L	2.326
|	Rh	103	11945.388	7846.746		ug/L	
⌊>	In-1	115	304834.175	290479.820		ug/L	
	Ti	47	345.678	319.343		ug/L	
	Li	7	25693.431	25807.144		mg/L	

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

Measurement Type		Mass	Out of Limits Message
QC Std 6	Be r	9	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Be	9	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	Co	59	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	Ba r	137	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Ba	135	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Tl r	205	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	U	238	LCV (DC1, TV 0.4) is out of limits (+/- 50%)
QC Std 6	Pb	208	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: User

Sample ID: Blank

Sample Description:
Autosampler Position: 1
Sample Date/Time: Thursday, March 15, 2012 10:39:44
Dataset File: C:\Elandata\Dataset\EL120315\Blank.020
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File:
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	46.334			ug/L	
|>	Li u	6	276718.840			ug/L	
L	Li	6	274689.864			ug/L	
Γ	Be	9	46.334			ug/L	
|	B	11	235.006			ug/L	
|	Al	27	3004.617			ug/L	
|>	Sc	45	571195.340			ug/L	
|	V r	51	6065.043			ug/L	
|	V u	51	128669.799			ug/L	
|	Cr r	52	11471.998			ug/L	
|	Cr	53	42456.858			ug/L	
|	Mn	55	793.382			ug/L	
|	Co	59	1397.141			ug/L	
|	Ni r	60	215.005			ug/L	
|	Ni	62	152.003			ug/L	
|	Cu r	63	482.687			ug/L	
L	Cu	65	245.006			ug/L	
Γ	Zn r	66	609.364			ug/L	
|	Zn	67	3207.371			ug/L	
|	Zn	68	710.707			ug/L	
|>	Ge	72	160198.231			ug/L	
|	As r	75	-203.403			ug/L	
|	As u	75	4859.917			ug/L	
|	Se r	82	-9.890			ug/L	
|	Se	77	1498.794			ug/L	
L	Sr	88	225.672			ug/L	
Γ	Ag r	107	55.001			ug/L	
|	Ag	109	47.001			ug/L	
|	Cd r	111	295.856			ug/L	
|	Cd	106	-3605.816			ug/L	
|	Cd	108	-3830.107			ug/L	
|	Cd	114	62.254			ug/L	
|	Cd u	111	29.334			ug/L	
|>	In	115	289489.852			ug/L	
|	Sb r	123	49.831			ug/L	
L	Sb	121	64.668			ug/L	

⌈	Sn	118	139.669	ug/L
|	Sn r	120	214.005	ug/L
|	Ba r	137	456.018	ug/L
|	Ba	135	280.341	ug/L
|>	Tb	159	325367.123	ug/L
|	Tl r	205	2673.491	ug/L
|	Tl	203	1091.755	ug/L
|	U	238	3132.336	ug/L
⌊	Pb	208	3750.057	ug/L
	Kr	83	179.004	ug/L
	Cl	35	30204654.668	mg/L
	C	12	380583.630	mg/L
	Y	89	307149.950	ug/L
⌈	Br	79	2337.045	ug/L
|	Br	81	14948.001	ug/L
⌊>	Ge-1	72	160198.231	ug/L
	Ru	99	3.333	ug/L
	Pd	105	3235.381	ug/L
	Ho	165	314317.445	ug/L
	Th	232	158.670	ug/L
⌈	Mo	95	171.004	ug/L
|	Mo	97	115.669	ug/L
|	Mo r	98	263.786	ug/L
|	Rh	103	2642.814	ug/L
⌊>	In-1	115	289489.852	ug/L
	Ti	47	337.344	ug/L
	Li	7	25018.202	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: User

Sample ID: QC Std 7

Sample Description:
Autosampler Position: 10
Sample Date/Time: Thursday, March 15, 2012 10:46:36
Dataset File: C:\Elandata\Dataset\EL120315\QC Std 7.021
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File: C:\Elandata\System\EL120315.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	452.351	144.003	0.957	ug/L	2.462
|>	Li u	6	273823.651	281809.338		ug/L	
⌊	Li	6	271700.284	279716.379		ug/L	
⌈	Be	9	452.351	144.003	1.017	ug/L	1.827
|	B	11	582.028	250.673	0.721	ug/L	4.379
|	Al	27	8743.390	2958.932	1.009	ug/L	7.225
|>	Sc	45	575995.817	562754.764		ug/L	
|	V r	51	14072.136	6166.366	0.782	ug/L	6.964
|	V u	51	127626.831	107078.035	1.764	ug/L	35.459
|	Cr r	52	18371.432	11412.241	0.842	ug/L	5.366
|	Cr	53	39672.747	35642.987	3.297	ug/L	66.913
|	Mn	55	11427.268	872.392	0.893	ug/L	5.796
|	Co	59	13069.559	4048.773	1.082	ug/L	5.038
|	Ni r	60	1804.230	242.006	0.900	ug/L	2.617
|	Ni	62	394.014	167.670	0.876	ug/L	8.969
|	Cu r	63	4059.112	532.690	0.961	ug/L	4.892
⌊	Cu	65	1905.255	246.340	0.934	ug/L	3.151
⌈	Zn r	66	1769.888	722.375	0.895	ug/L	2.101
|	Zn	67	3106.329	2489.100	2.225	ug/L	67.983
|	Zn	68	1627.855	773.380	0.957	ug/L	1.818
|>	Ge	72	163825.222	155886.169		ug/L	
|	As r	75	1238.975	43.200	0.823	ug/L	26.109
|	As u	75	5916.667	4405.305	0.913	ug/L	3.711
|	Se r	82	126.469	5.186	0.788	ug/L	16.519
|	Se	77	1529.152	1356.163	0.869	ug/L	35.774
⌊	Sr	88	16110.690	195.338	0.886	ug/L	1.830
⌈	Ag r	107	6232.253	75.334	0.824	ug/L	1.936
|	Ag	109	5942.022	51.001	0.826	ug/L	2.954
|	Cd r	111	1658.893	301.429	0.762	ug/L	6.986
|	Cd	106	-3696.856	-3560.056	0.647	ug/L	62.973
|	Cd	108	-3916.154	-3778.984	0.981	ug/L	73.168
|	Cd	114	3370.717	85.078	0.805	ug/L	3.910
|	Cd u	111	1427.147	40.667	0.784	ug/L	6.307
|>	In	115	310223.726	290479.820		ug/L	
|	Sb r	123	3498.661	58.455	0.777	ug/L	3.903
⌊	Sb	121	4729.167	88.001	0.807	ug/L	1.404

⌈	Sn	118	4427.652	158.670	**0.858**	ug/L	4.078
|	Sn r	120	6080.463	208.338	**0.862**	ug/L	0.095
|	Ba r	137	4110.806	1262.783	**1.034**	ug/L	2.984
|	Ba	135	2356.718	715.040	**1.037**	ug/L	1.537
|>	Tb	159	327646.524	317043.234		ug/L	
|	Tl r	205	19323.111	6618.579	**0.947**	ug/L	3.180
|	Tl	203	7910.815	2735.180	**0.910**	ug/L	4.454
|	U	238	31542.860	9438.882	**1.126**	ug/L	1.982
⌊	Pb	208	27393.603	9191.574	**1.064**	ug/L	3.057
	Kr	83	176.670	170.337		ug/L	
	Cl	35	29030607.008	29074374.350		mg/L	
	C	12	406215.289	382237.862		mg/L	
	Y	89	327149.328	307756.903		ug/L	
⌈	Br	79	2472.756	2146.654	**0.775**	ug/L	46.305
|	Br	81	15004.107	13971.490	**1.159**	ug/L	109.380
⌊>	Ge-1	72	163825.222	155886.169		ug/L	
	Ru	99	2.000	3.000		ug/L	
	Pd	105	3406.455	3193.362		ug/L	
	Ho	165	308184.668	302920.753		ug/L	
	Th	232	14129.142	98.002	**0.869**	ug/L	6.531
⌈	Mo	95	2603.800	188.004	**0.761**	ug/L	5.912
|	Mo	97	1636.524	119.335	**0.740**	ug/L	1.252
|	Mo r	98	4138.600	280.009	**0.744**	ug/L	4.249
|	Rh	103	11165.543	7846.746		ug/L	
⌊>	In-1	115	310223.726	290479.820		ug/L	
	Ti	47	348.011	319.343		ug/L	
	Li	7	26182.081	25807.144		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: User

Sample ID: 1203001-11

Sample Description:
Autosampler Position: 17
Sample Date/Time: Thursday, March 15, 2012 10:52:40
Dataset File: C:\Elandata\Dataset\EL120315\1203001-11.022
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File: C:\Elandata\System\EL120315.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

don't report

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.667	144.003	-0.424	ug/L	0.420
|>	Li u	6	283653.854	281809.338		ug/L	
L	Li	6	281565.125	279716.379		ug/L	
⌈	Be	9	1.667	144.003	-0.486	ug/L	0.390
|	B	11	3132.336	250.673	6.198	ug/L	4.842
|	Al	27	6169.539	2958.932	0.527	ug/L	11.536
|>	Sc	45	590447.585	562754.764		ug/L	
|	V r	51	6318.037	6166.366	-0.015	ug/L	482.079
|	V u	51	138605.261	107078.035	2.511	ug/L	35.751
|	Cr r	52	12564.051	11412.241	0.072	ug/L	64.207
|	Cr	53	45550.871	35642.987	8.256	ug/L	31.344
|	Mn	55	1138.429	872.392	0.018	ug/L	2.604
|	Co	59	65.001	4048.773	-0.494	ug/L	0.223
|	Ni r	60	275.008	242.006	0.012	ug/L	69.481
|	Ni	62	183.671	167.670	0.030	ug/L	227.586
|	Cu r	63	626.032	532.690	0.018	ug/L	52.603
L	Cu	65	305.009	246.340	0.026	ug/L	43.754
⌈	Zn r	66	879.726	722.375	0.101	ug/L	29.546
|	Zn	67	3343.430	2489.100	3.168	ug/L	34.241
|	Zn	68	936.733	773.380	0.138	ug/L	50.436
|>	Ge	72	165026.743	155886.169		ug/L	
|	As r	75	-133.730	43.200	-0.123	ug/L	34.899
|	As u	75	5786.567	4405.305	0.792	ug/L	12.488
|	Se r	82	-1.933	5.186	-0.047	ug/L	383.270
|	Se	77	1764.821	1356.163	2.735	ug/L	12.406
L	Sr	88	10707.893	195.338	0.581	ug/L	4.522
⌈	Ag r	107	55.667	75.334	-0.003	ug/L	48.801
|	Ag	109	48.001	51.001	-0.001	ug/L	93.600
|	Cd r	111	275.639	301.429	-0.018	ug/L	42.535
|	Cd	106	-3668.466	-3560.056	-0.313	ug/L	153.470
|	Cd	108	-3877.748	-3778.984	-0.302	ug/L	242.559
|	Cd	114	62.058	85.078	-0.006	ug/L	19.039
|	Cd u	111	20.334	40.667	-0.013	ug/L	16.654
|>	In	115	295370.973	290479.820		ug/L	
|	Sb r	123	78.498	58.455	0.005	ug/L	56.132
L	Sb	121	106.002	88.001	0.003	ug/L	71.310

⌈	Sn	118	196.671	158.670	**0.006**	ug/L	56.469
|	Sn r	120	250.673	208.338	**0.004**	ug/L	71.876
|	Ba r	137	179.004	1262.783	**-0.416**	ug/L	0.561
|	Ba	135	116.335	715.040	**-0.401**	ug/L	0.881
|>	Tb	159	335395.629	317043.234		ug/L	
|	Tl r	205	657.702	6618.579	**-0.470**	ug/L	1.067
|	Tl	203	259.007	2735.180	**-0.461**	ug/L	0.589
|	U	238	18.667	9438.882	**-0.503**	ug/L	0.025
⌊	Pb	208	1075.373	9191.574	**-0.502**	ug/L	0.684
	Kr	83	184.004	170.337		ug/L	
	Cl	35	33475925.051	29074374.350		mg/L	
	C	12	519453.551	382237.862		mg/L	
	Y	89	315416.373	307756.903		ug/L	
⌈	Br	79	1318.126	2146.654	**-3.376**	ug/L	3.503
|	Br	81	13849.262	13971.490	**-3.348**	ug/L	39.278
⌊>	Ge-1	72	165026.743	155886.169		ug/L	
	Ru	99	3.333	3.000		ug/L	
	Pd	105	3278.398	3193.362		ug/L	
	Ho	165	315560.061	302920.753		ug/L	
	Th	232	154.670	98.002	**0.004**	ug/L	22.964
⌈	Mo	95	224.672	188.004	**0.011**	ug/L	32.256
|	Mo	97	141.003	119.335	**0.010**	ug/L	53.582
|	Mo r	98	339.790	280.009	**0.011**	ug/L	27.360
|	Rh	103	9.000	7846.746		ug/L	
⌊>	In-1	115	295370.973	290479.820		ug/L	
	Ti	47	348.345	319.343		ug/L	
	Li	7	25754.974	25807.144		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: User

Sample ID: 1203001-12

Sample Description:
Autosampler Position: 18
Sample Date/Time: Thursday, March 15, 2012 10:57:45
Dataset File: C:\Elandata\Dataset\EL120315\1203001-12.023
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File: C:\Elandata\System\EL120315.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.000	144.003	-0.426	ug/L	0.009
|>	Li u	6	300495.482	281809.338		ug/L	
⌊	Li	6	297396.564	279716.379		ug/L	
⌈	Be	9	1.000	144.003	-0.488	ug/L	0.016
|	B	11	5232.498	250.673	10.950	ug/L	1.373
|	Al	27	11631.373	2958.932	1.501	ug/L	17.614
|>	Sc	45	579424.896	562754.764		ug/L	
|	V r	51	6952.990	6166.366	0.059	ug/L	181.664
|	V u	51	149419.172	107078.035	3.818	ug/L	25.665
|	Cr r	52	12495.937	11412.241	0.093	ug/L	41.036
|	Cr	53	49160.157	35642.987	12.871	ug/L	26.421
|	Mn	55	133470.919	872.392	11.168	ug/L	4.127
|	Co	59	431.016	4048.773	-0.450	ug/L	1.050
|	Ni r	60	1090.755	242.006	0.484	ug/L	5.964
|	Ni	62	171.004	167.670	-0.006	ug/L	1527.369
|	Cu r	63	3064.308	532.690	0.684	ug/L	4.232
⌊	Cu	65	1474.156	246.340	0.685	ug/L	6.835
⌈	Zn r	66	1251.114	722.375	0.453	ug/L	7.092
|	Zn	67	4595.421	2489.100	9.263	ug/L	13.642
|	Zn	68	4579.075	773.380	4.503	ug/L	2.783
|>	Ge	72	161370.384	155886.169		ug/L	
|	As r	75	1138.470	43.200	0.767	ug/L	19.457
|	As u	75	8097.679	4405.305	2.547	ug/L	9.015
|	Se r	82	26.433	5.186	0.139	ug/L	75.299
|	Se	77	2175.636	1356.163	6.562	ug/L	21.690
⌊	Sr	88	10292778.578	195.338	582.343	ug/L	0.768
⌈	Ag r	107	74.001	75.334	-0.000	ug/L	1081.258
|	Ag	109	48.334	51.001	-0.000	ug/L	351.405
|	Cd r	111	277.210	301.429	-0.015	ug/L	73.090
|	Cd	106	-4340.509	-3560.056	-5.135	ug/L	20.082
|	Cd	108	-4517.049	-3778.984	-6.476	ug/L	23.758
|	Cd	114	56.837	85.078	-0.007	ug/L	24.241
|	Cd u	111	31.334	40.667	-0.006	ug/L	45.138
|>	In	115	290487.940	290479.820		ug/L	
|	Sb r	123	237.152	58.455	0.043	ug/L	8.847
⌊	Sb	121	258.674	88.001	0.032	ug/L	11.784

⌈	Sn	118	217.339	158.670	**0.012**	ug/L	15.085
|	Sn r	120	308.676	208.338	**0.015**	ug/L	15.858
|	Ba r	137	254545.669	1262.783	**95.132**	ug/L	1.272
|	Ba	135	148744.792	715.040	**96.733**	ug/L	1.292
|>	Tb	159	321378.705	317043.234		ug/L	
|	Tl r	205	676.703	6618.579	**-0.467**	ug/L	0.695
|	Tl	203	274.341	2735.180	**-0.456**	ug/L	0.467
|	U	238	18690.869	9438.882	**0.481**	ug/L	1.810
⌊	Pb	208	10469.553	9191.574	**0.070**	ug/L	9.999
	Kr	83	180.337	170.337		ug/L	
	Cl	35	32537408.859	29074374.350		mg/L	
	C	12	525590.961	382237.862		mg/L	
	Y	89	307718.640	307756.903		ug/L	
⌈	Br	79	2262.689	2146.654	**0.146**	ug/L	147.042
|	Br	81	15149.065	13971.490	**2.503**	ug/L	67.731
⌊>	Ge-1	72	161370.384	155886.169		ug/L	
	Ru	99	3.000	3.000		ug/L	
	Pd	105	3819.321	3193.362		ug/L	
	Ho	165	316750.135	302920.753		ug/L	
	Th	232	135.336	98.002	**0.002**	ug/L	42.718
⌈	Mo	95	648.367	188.004	**0.155**	ug/L	2.646
|	Mo	97	416.015	119.335	**0.155**	ug/L	7.139
|	Mo r	98	1040.045	280.009	**0.157**	ug/L	0.864
|	Rh	103	245.340	7846.746		ug/L	
⌊>	In-1	115	290487.940	290479.820		ug/L	
	Ti	47	695.038	319.343		ug/L	
	Li	7	38211.064	25807.144		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: User

Sample ID: 1203001-11

Sample Description: REG
Autosampler Position: 18
Sample Date/Time: Thursday, March 15, 2012 11:02:50
Dataset File: C:\Elandata\Dataset\EL120315\1203001-11.024
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File: C:\Elandata\System\EL120315.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

FB21 Wrong container

RC 3.15.12

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	1.333	144.003	-0.425	ug/L	0.739
|>	Li u	6	303979.965	281809.338		ug/L	
L	Li	6	300916.221	279716.379		ug/L	
Γ	Be	9	1.333	144.003	-0.487	ug/L	0.771
|	B	11	4725.181	250.673	10.132	ug/L	4.796
|	Al	27	11070.002	2958.932	1.452	ug/L	20.865
|>	Sc	45	561852.656	562754.764		ug/L	
|	V r	51	8206.645	6166.366	0.209	ug/L	44.994
|	V u	51	162866.559	107078.035	5.697	ug/L	24.595
|	Cr r	52	12739.388	11412.241	0.174	ug/L	7.799
|	Cr	53	52613.112	35642.987	18.367	ug/L	26.402
|	Mn	55	119473.678	872.392	10.272	ug/L	4.137
|	Co	59	410.349	4048.773	-0.451	ug/L	0.585
|	Ni r	60	951.736	242.006	0.419	ug/L	14.831
|	Ni	62	164.003	167.670	-0.015	ug/L	253.129
|	Cu r	63	2775.199	532.690	0.628	ug/L	4.263
L	Cu	65	1396.476	246.340	0.664	ug/L	7.082
Γ	Zn r	66	1154.099	722.375	0.366	ug/L	34.264
|	Zn	67	4310.255	2489.100	8.000	ug/L	13.083
|	Zn	68	4233.891	773.380	4.094	ug/L	14.640
|>	Ge	72	160889.731	155886.169		ug/L	
|	As r	75	1328.101	43.200	0.899	ug/L	18.801
|	As u	75	9600.128	4405.305	3.641	ug/L	16.026
|	Se r	82	21.496	5.186	0.107	ug/L	76.562
|	Se	77	2612.557	1356.163	10.304	ug/L	23.160
L	Sr	88	9231969.075	195.338	522.849	ug/L	9.377
Γ	Ag r	107	70.001	75.334	-0.001	ug/L	181.230
|	Ag	109	51.001	51.001	-0.000	ug/L	435.454
|	Cd r	111	254.112	301.429	-0.035	ug/L	83.163
|	Cd	106	-3905.261	-3560.056	-1.222	ug/L	339.507
|	Cd	108	-4075.979	-3778.984	-1.147	ug/L	508.766
|	Cd	114	62.186	85.078	-0.007	ug/L	1.928
|	Cd u	111	23.667	40.667	-0.011	ug/L	32.223
|>	In	115	304696.288	290479.820		ug/L	
|	Sb r	123	194.442	58.455	0.031	ug/L	24.957
L	Sb	121	241.006	88.001	0.027	ug/L	22.621

⌈	Sn	118	204.338	158.670	**0.008**	ug/L	47.094
|	Sn r	120	279.008	208.338	**0.009**	ug/L	15.846
|	Ba r	137	228717.134	1262.783	**82.237**	ug/L	16.010
|	Ba	135	131953.256	715.040	**82.569**	ug/L	15.612
|>	Tb	159	332898.321	317043.234		ug/L	
|	Tl r	205	614.364	6618.579	**-0.473**	ug/L	0.356
|	Tl	203	253.673	2735.180	**-0.462**	ug/L	1.188
|	U	238	16383.740	9438.882	**0.327**	ug/L	46.202
⌊	Pb	208	9317.006	9191.574	**-0.021**	ug/L	392.560
	Kr	83	211.338	170.337		ug/L	
	Cl	35	29283333.796	29074374.350		mg/L	
	C	12	516143.264	382237.862		mg/L	
	Y	89	306747.655	307756.903		ug/L	
⌈	Br	79	2098.975	2146.654	**-0.432**	ug/L	85.843
|	Br	81	13918.145	13971.490	**-1.919**	ug/L	194.871
⌊>	Ge-1	72	160889.731	155886.169		ug/L	
	Ru	99	1.000	3.000		ug/L	
	Pd	105	3446.814	3193.362		ug/L	
	Ho	165	314218.390	302920.753		ug/L	
	Th	232	122.002	98.002	**0.001**	ug/L	87.797
⌈	Mo	95	586.028	188.004	**0.126**	ug/L	25.352
|	Mo	97	412.015	119.335	**0.144**	ug/L	19.595
|	Mo r	98	981.260	280.009	**0.136**	ug/L	16.093
|	Rh	103	231.673	7846.746		ug/L	
⌊>	In-1	115	304696.288	290479.820		ug/L	
	Ti	47	645.034	319.343		ug/L	
	Li	7	37777.363	25807.144		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: User

Sample ID: 1203001-12

Sample Description: REG

Autosampler Position: 19

Sample Date/Time: Thursday, March 15, 2012 11:07:55

Dataset File: C:\Elandata\Dataset\EL120315\1203001-12.025

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

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

Calibration File: C:\Elandata\System\EL120315.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

7H050

wrong container RC 3.15.12

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	0.333	144.003	-0.427	ug/L	0.732
|>	Li u	6	159707.191	281809.338		ug/L	
L	Li	6	158495.340	279716.379		ug/L	
Γ	Be	9	0.333	144.003	-0.490	ug/L	0.442
|	B	11	5094.071	250.673	12.067	ug/L	2.997
|	Al	27	3231.711	2958.932	0.104	ug/L	7.597
|>	Sc	45	514312.799	562754.764		ug/L	
|	V r	51	4723.986	6166.366	-0.103	ug/L	24.727
|	V u	51	35843.114	107078.035	-6.808	ug/L	5.943
|	Cr r	52	9777.308	11412.241	-0.091	ug/L	42.242
|	Cr	53	11543.218	35642.987	-24.457	ug/L	6.814
|	Mn	55	623.031	872.392	-0.017	ug/L	18.094
|	Co	59	59.001	4048.773	-0.494	ug/L	0.233
|	Ni r	60	240.340	242.006	0.013	ug/L	134.815
|	Ni	62	150.336	167.670	-0.013	ug/L	96.352
|	Cu r	63	472.353	532.690	-0.005	ug/L	195.714
L	Cu	65	208.338	246.340	-0.011	ug/L	62.261
Γ	Zn r	66	978.406	722.375	0.232	ug/L	25.527
|	Zn	67	1429.814	2489.100	-5.079	ug/L	11.277
|	Zn	68	842.055	773.380	0.077	ug/L	105.019
|>	Ge	72	157025.418	155886.169		ug/L	
|	As r	75	286.995	43.200	0.175	ug/L	4.321
|	As u	75	455.685	4405.305	-2.946	ug/L	0.968
|	Se r	82	11.879	5.186	0.045	ug/L	242.926
|	Se	77	49.358	1356.163	-11.501	ug/L	1.422
L	Sr	88	20663.591	195.338	1.190	ug/L	0.715
Γ	Ag r	107	44.001	75.334	-0.004	ug/L	37.206
|	Ag	109	35.000	51.001	-0.002	ug/L	26.338
|	Cd r	111	260.479	301.429	-0.021	ug/L	59.983
|	Cd	106	-3569.630	-3560.056	-0.610	ug/L	56.770
|	Cd	108	-3744.556	-3778.984	-0.465	ug/L	149.892
|	Cd	114	85.374	85.078	0.001	ug/L	1384.360
|	Cd u	111	35.334	40.667	-0.003	ug/L	68.085
|>	In	115	283891.203	290479.820		ug/L	
|	Sb r	123	72.498	58.455	0.004	ug/L	38.367
L	Sb	121	99.668	88.001	0.003	ug/L	87.741

⌈	Sn	118	197.338	158.670	**0.008**	ug/L	54.063
|	Sn r	120	269.341	208.338	**0.009**	ug/L	26.399
|	Ba r	137	254.340	1262.783	**-0.384**	ug/L	0.486
|	Ba	135	142.669	715.040	**-0.379**	ug/L	2.277
|>	Tb	159	315768.042	317043.234		ug/L	
|	Tl r	205	577.028	6618.579	**-0.474**	ug/L	2.087
|	Tl	203	235.006	2735.180	**-0.463**	ug/L	1.783
|	U	238	16.000	9438.882	**-0.503**	ug/L	0.064
⌊	Pb	208	721.687	9191.574	**-0.520**	ug/L	0.876
	Kr	83	167.337	170.337		ug/L	
	Cl	35	216270.334	29074374.350		mg/L	
	C	12	491605.290	382237.862		mg/L	
	Y	89	295392.813	307756.903		ug/L	
⌈	Br	79	7194.441	2146.654	**18.715**	ug/L	7.611
|	Br	81	18632.059	13971.490	**17.110**	ug/L	4.514
⌊>	Ge-1	72	157025.418	155886.169		ug/L	
	Ru	99	1.333	3.000		ug/L	
	Pd	105	3167.684	3193.362		ug/L	
	Ho	165	301030.311	302920.753		ug/L	
	Th	232	79.335	98.002	**-0.001**	ug/L	26.426
⌈	Mo	95	230.006	188.004	**0.016**	ug/L	24.943
|	Mo	97	149.670	119.335	**0.018**	ug/L	41.583
|	Mo r	98	392.903	280.009	**0.025**	ug/L	21.390
|	Rh	103	13.333	7846.746		ug/L	
⌊>	In-1	115	283891.203	290479.820		ug/L	
	Ti	47	248.006	319.343		ug/L	
	Li	7	14942.677	25807.144		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: User

Sample ID: QC Std 2

Sample Description:
Autosampler Position: 3
Sample Date/Time: Thursday, March 15, 2012 11:12:55
Dataset File: C:\Elandata\Dataset\EL120315\QC Std 2.026
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File: C:\Elandata\System\EL120315.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	16378.585	144.003	52.024	ug/L	5.179
|>	Li u	6	262352.788	281809.338		ug/L	
L	Li	6	260266.691	279716.379		ug/L	
Γ	Be	9	16378.585	144.003	51.789	ug/L	1.382
|	B	11	24075.598	250.673	50.425	ug/L	5.214
|	Al	27	306550.074	2958.932	51.175	ug/L	1.421
|>	Sc	45	602005.314	562754.764		ug/L	
|	V r	51	533797.847	6166.366	50.821	ug/L	1.856
|	V u	51	639653.148	107078.035	49.227	ug/L	3.677
|	Cr r	52	438102.538	11412.241	51.221	ug/L	0.488
|	Cr	53	82783.710	35642.987	44.341	ug/L	11.928
|	Mn	55	635992.680	872.392	51.456	ug/L	1.334
|	Co	59	460254.082	4048.773	52.827	ug/L	0.870
|	Ni r	60	94615.963	242.006	52.214	ug/L	0.530
|	Ni	62	14193.892	167.670	52.765	ug/L	0.516
|	Cu r	63	200017.478	532.690	52.166	ug/L	1.174
L	Cu	65	96427.251	246.340	51.959	ug/L	0.466
Γ	Zn r	66	58576.105	722.375	52.176	ug/L	1.264
|	Zn	67	13256.886	2489.100	49.230	ug/L	4.447
|	Zn	68	43975.789	773.380	51.649	ug/L	1.980
|>	Ge	72	160769.491	155886.169		ug/L	
|	As r	75	72331.374	43.200	50.861	ug/L	0.319
|	As u	75	73879.875	4405.305	50.106	ug/L	0.137
|	Se r	82	7734.284	5.186	51.259	ug/L	2.241
|	Se	77	7278.644	1356.163	50.156	ug/L	1.668
L	Sr	88	937928.024	195.338	53.261	ug/L	1.738
Γ	Ag r	107	358479.825	75.334	48.061	ug/L	2.046
|	Ag	109	337755.513	51.001	47.416	ug/L	1.730
|	Cd r	111	83519.367	301.429	47.425	ug/L	2.056
|	Cd	106	3745.435	-3560.056	46.562	ug/L	1.851
|	Cd	108	1630.200	-3778.984	46.599	ug/L	3.680
|	Cd	114	191126.297	85.078	46.955	ug/L	1.312
|	Cd u	111	83626.276	40.667	47.415	ug/L	1.922
|>	In	115	309843.466	290479.820		ug/L	
|	Sb r	123	202395.348	58.455	45.788	ug/L	2.011
L	Sb	121	273262.895	88.001	47.621	ug/L	1.727

⌈	Sn	118	255234.178	158.670	**52.407**	ug/L	1.942
|	Sn r	120	342974.388	208.338	**51.423**	ug/L	2.499
|	Ba r	137	136321.107	1262.783	**50.807**	ug/L	3.315
|	Ba	135	78237.978	715.040	**50.738**	ug/L	3.033
|>	Tb	159	321055.768	317043.234		ug/L	
|	Tl r	205	659307.249	6618.579	**50.557**	ug/L	2.555
|	Tl	203	274083.344	2735.180	**49.611**	ug/L	3.423
|	U	238	1036828.920	9438.882	**54.213**	ug/L	4.247
⌊	Pb	208	884274.040	9191.574	**53.129**	ug/L	3.976
	Kr	83	175.337	170.337		ug/L	
	Cl	35	27907771.650	29074374.350		mg/L	
	C	12	469197.418	382237.862		mg/L	
	Y	89	335691.951	307756.903		ug/L	
⌈	Br	79	16736.028	2146.654	**52.761**	ug/L	4.008
|	Br	81	28885.105	13971.490	**53.062**	ug/L	1.623
⌊>	Ge-1	72	160769.491	155886.169		ug/L	
	Ru	99	18.334	3.000		ug/L	
	Pd	105	3623.890	3193.362		ug/L	
	Ho	165	303012.220	302920.753		ug/L	
	Th	232	934296.564	98.002	**57.835**	ug/L	3.418
⌈	Mo	95	147597.215	188.004	**46.679**	ug/L	0.461
|	Mo	97	92178.260	119.335	**45.187**	ug/L	1.626
|	Mo r	98	241720.875	280.009	**46.854**	ug/L	2.457
|	Rh	103	25028.235	7846.746		ug/L	
⌊>	In-1	115	309843.466	290479.820		ug/L	
	Ti	47	410.348	319.343		ug/L	
	Li	7	25722.529	25807.144		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%)

ELAN 6100 Quantitative Analysis - Summary Report

User Name: User

Sample ID: QC Std 4

Sample Description:
Autosampler Position: 1
Sample Date/Time: Thursday, March 15, 2012 11:17:52
Dataset File: C:\Elandata\Dataset\EL120315\QC Std 4.027
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File: C:\Elandata\System\EL120315.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
Γ	Be r	9	50.001	144.003	-0.280	ug/L	9.960
|>	Li u	6	280663.946	281809.338		ug/L	
L	Li	6	278591.519	279716.379		ug/L	
Γ	Be	9	50.001	144.003	-0.328	ug/L	9.581
|	B	11	308.010	250.673	0.100	ug/L	169.503
|	Al	27	3185.025	2958.932	0.017	ug/L	63.128
|>	Sc	45	587543.922	562754.764		ug/L	
|	V r	51	6115.549	6166.366	-0.031	ug/L	784.833
|	V u	51	132106.730	107078.035	1.956	ug/L	48.548
|	Cr r	52	11471.667	11412.241	-0.054	ug/L	89.862
|	Cr	53	43207.030	35642.987	6.112	ug/L	46.423
|	Mn	55	810.051	872.392	-0.008	ug/L	21.354
|	Co	59	1397.141	4048.773	-0.336	ug/L	2.278
|	Ni r	60	222.339	242.006	-0.017	ug/L	55.696
|	Ni	62	165.670	167.670	-0.036	ug/L	67.354
|	Cu r	63	499.021	532.690	-0.015	ug/L	46.815
L	Cu	65	247.340	246.340	-0.005	ug/L	110.632
Γ	Zn r	66	637.366	722.375	-0.115	ug/L	8.002
|	Zn	67	3206.370	2489.100	2.494	ug/L	50.229
|	Zn	68	747.044	773.380	-0.088	ug/L	69.730
|>	Ge	72	165916.385	155886.169		ug/L	
|	As r	75	70.238	43.200	0.016	ug/L	823.650
|	As u	75	5124.092	4405.305	0.306	ug/L	56.148
|	Se r	82	9.722	5.186	0.027	ug/L	388.856
|	Se	77	1542.756	1356.163	0.823	ug/L	29.313
L	Sr	88	262.007	195.338	0.003	ug/L	30.687
Γ	Ag r	107	71.334	75.334	-0.001	ug/L	145.779
|	Ag	109	55.667	51.001	0.000	ug/L	936.302
|	Cd r	111	273.484	301.429	-0.025	ug/L	72.481
|	Cd	106	-3879.979	-3560.056	-0.875	ug/L	18.258
|	Cd	108	-4074.253	-3778.984	-0.871	ug/L	48.117
|	Cd	114	51.601	85.078	-0.009	ug/L	39.353
|	Cd u	111	23.667	40.667	-0.011	ug/L	10.482
|>	In	115	305175.636	290479.820		ug/L	
|	Sb r	123	57.455	58.455	-0.001	ug/L	81.159
L	Sb	121	72.334	88.001	-0.004	ug/L	107.366

⌈	Sn	118	251.007	158.670	**0.015**	ug/L	32.780
|	Sn r	120	331.010	208.338	**0.015**	ug/L	34.698
|	Ba r	137	489.354	1262.783	**-0.309**	ug/L	1.191
|	Ba	135	273.008	715.040	**-0.306**	ug/L	1.410
|>	Tb	159	342910.875	317043.234		ug/L	
|	Tl r	205	4196.869	6618.579	**-0.214**	ug/L	21.270
|	Tl	203	1716.211	2735.180	**-0.212**	ug/L	21.288
|	U	238	3273.729	9438.882	**-0.342**	ug/L	1.620
⌊	Pb	208	3830.076	9191.574	**-0.347**	ug/L	1.430
	Kr	83	185.337	170.337		ug/L	
	Cl	35	30565171.225	29074374.350		mg/L	
	C	12	398313.164	382237.862		mg/L	
	Y	89	318471.299	307756.903		ug/L	
⌈	Br	79	2842.220	2146.654	**1.963**	ug/L	5.996
|	Br	81	15023.823	13971.490	**0.552**	ug/L	423.653
⌊>	Ge-1	72	165916.385	155886.169		ug/L	
	Ru	99	2.667	3.000		ug/L	
	Pd	105	3441.137	3193.362		ug/L	
	Ho	165	325060.805	302920.753		ug/L	
	Th	232	965.738	98.002	**0.054**	ug/L	19.074
⌈	Mo	95	246.006	188.004	**0.016**	ug/L	47.641
|	Mo	97	146.336	119.335	**0.010**	ug/L	82.484
|	Mo r	98	377.495	280.009	**0.016**	ug/L	52.140
|	Rh	103	2578.124	7846.746		ug/L	
⌊>	In-1	115	305175.636	290479.820		ug/L	
	Ti	47	324.343	319.343		ug/L	
	Li	7	25553.969	25807.144		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: User

Sample ID: 1203001-11 ✓ FB21

Sample Description: REG

Autosampler Position: 18

Sample Date/Time: Thursday, March 15, 2012 12:23:05

Dataset File: C:\Elandata\Dataset\EL120315\1203001-11.028

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

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

Calibration File: C:\Elandata\System\EL120315.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

~~do not use~~ wrong container correct container RC 3.15.12 DONT REPORT RC 4.2.12

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	0.000	144.003	-0.429	ug/L	
|>	Li u	6	165321.161	281809.338		ug/L	
⌊	Li	6	164021.194	279716.379		ug/L	
⌈	Be	9	0.000	144.003	-0.492	ug/L	0.000
|	B	11	5147.440	250.673	11.835	ug/L	2.048
|	Al	27	3334.423	2958.932	0.106	ug/L	8.853
|>	Sc	45	529328.220	562754.764		ug/L	
|	V r	51	3313.864	6166.366	-0.272	ug/L	9.854
|	V u	51	10045.330	107078.035	-9.667	ug/L	0.568
|	Cr r	52	9804.676	11412.241	-0.127	ug/L	24.305
|	Cr	53	3293.405	35642.987	-34.137	ug/L	0.283
|	Mn	55	484.687	872.392	-0.031	ug/L	2.728
|	Co	59	51.001	4048.773	-0.495	ug/L	0.142
|	Ni r	60	253.673	242.006	0.016	ug/L	24.392
|	Ni	62	178.004	167.670	0.087	ug/L	34.793
|	Cu r	63	455.351	532.690	-0.014	ug/L	12.411
⌊	Cu	65	201.671	246.340	-0.018	ug/L	47.827
⌈	Zn r	66	1017.078	722.375	0.241	ug/L	27.228
|	Zn	67	517.689	2489.100	-9.446	ug/L	1.249
|	Zn	68	799.050	773.380	-0.002	ug/L	1038.148
|>	Ge	72	161455.483	155886.169		ug/L	
|	As r	75	118.848	43.200	0.052	ug/L	80.340
|	As u	75	132.669	4405.305	-3.188	ug/L	0.044
|	Se r	82	29.160	5.186	0.157	ug/L	89.920
|	Se	77	14.576	1356.163	-11.808	ug/L	0.783
⌊	Sr	88	21566.409	195.338	1.208	ug/L	1.656
⌈	Ag r	107	45.001	75.334	-0.004	ug/L	6.280
|	Ag	109	37.000	51.001	-0.002	ug/L	26.981
|	Cd r	111	277.658	301.429	-0.015	ug/L	142.844
|	Cd	106	-3791.035	-3560.056	-1.417	ug/L	32.795
|	Cd	108	-3983.526	-3778.984	-1.651	ug/L	24.513
|	Cd	114	76.031	85.078	-0.002	ug/L	76.835
|	Cd u	111	32.334	40.667	-0.005	ug/L	157.942
|>	In	115	291705.845	290479.820		ug/L	
|	Sb r	123	53.249	58.455	-0.001	ug/L	54.243
⌊	Sb	121	71.001	88.001	-0.003	ug/L	57.611

⌈	**Sn**	118	148.003	158.670	**-0.002**	ug/L	116.033
|	**Sn r**	120	214.338	208.338	**0.001**	ug/L	494.901
|	**Ba r**	137	259.007	1262.783	**-0.383**	ug/L	1.503
|	**Ba**	135	148.670	715.040	**-0.376**	ug/L	1.959
|>	**Tb**	159	319063.337	317043.234		ug/L	
|	**Tl r**	205	254.340	6618.579	**-0.499**	ug/L	0.655
|	**Tl**	203	115.002	2735.180	**-0.485**	ug/L	0.402
|	**U**	238	16.667	9438.882	**-0.503**	ug/L	0.030
⌊	**Pb**	208	476.010	9191.574	**-0.536**	ug/L	0.352
	Kr	83	96.668	170.337		ug/L	
	Cl	35	104798.537	29074374.350		mg/L	
	C	12	543130.779	382237.862		mg/L	
	Y	89	298413.163	307756.903		ug/L	
⌈	**Br**	79	9761.959	2146.654	**27.267**	ug/L	4.617
|	**Br**	81	21465.122	13971.490	**25.538**	ug/L	3.307
⌊>	**Ge-1**	72	161455.483	155886.169		ug/L	
	Ru	99	1.000	3.000		ug/L	
	Pd	105	3367.104	3193.362		ug/L	
	Ho	165	302043.277	302920.753		ug/L	
	Th	232	98.002	98.002	**0.000**	⊗918485030117044200.000	
⌈	**Mo**	95	245.006	188.004	**0.019**	ug/L	42.983
|	**Mo**	97	141.336	119.335	**0.011**	ug/L	71.731
|	**Mo r**	98	388.866	280.009	**0.022**	ug/L	27.072
|	**Rh**	103	10.333	7846.746		ug/L	
⌊>	**In-1**	115	291705.845	290479.820		ug/L	
	Ti	47	193.338	319.343		ug/L	
	Li	7	16029.187	25807.144		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: User

Sample ID: 1203001-12 REG ✓ HW50

Sample Description:

Autosampler Position: 18

Sample Date/Time: Thursday, March 15, 2012 12:28:30

Dataset File: C:\Elandata\Dataset\EL120315\1203001-12.029

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

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

Calibration File: C:\Elandata\System\EL120315.cal

Report Title: QUANTITATIVE ANALYSIS REPORT

analysis 200.8 or equivalent

DONT Report RC 4-2-12

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	1.000	144.003	-0.425	ug/L	0.979
|>	Li u	6	206774.887	281809.338		ug/L	
L	Li	6	203586.635	279716.379		ug/L	
⌈	Be	9	1.000	144.003	-0.489	ug/L	0.651
|	B	11	10413.151	250.673	21.477	ug/L	2.466
|	Al	27	18459.599	2958.932	2.578	ug/L	16.733
|>	Sc	45	602323.044	562754.764		ug/L	
|	V r	51	11810.325	6166.366	0.502	ug/L	5.342
|	V u	51	10865.444	107078.035	-9.720	ug/L	0.189
|	Cr r	52	34854.153	11412.241	2.721	ug/L	2.333
|	Cr	53	3606.215	35642.987	-34.277	ug/L	0.330
|	Mn	55	341548.864	872.392	27.584	ug/L	1.604
|	Co	59	924.732	4048.773	-0.395	ug/L	1.150
|	Ni r	60	2225.678	242.006	1.088	ug/L	3.969
|	Ni	62	198.338	167.670	0.071	ug/L	47.768
|	Cu r	63	6659.616	532.690	1.592	ug/L	2.804
L	Cu	65	3109.993	246.340	1.537	ug/L	1.624
⌈	Zn r	66	2167.994	722.375	1.126	ug/L	1.795
|	Zn	67	3306.077	2489.100	2.174	ug/L	13.412
|	Zn	68	10729.591	773.380	10.844	ug/L	4.582
|>	Ge	72	174908.122	155886.169		ug/L	
|	As r	75	4211.631	43.200	2.693	ug/L	4.335
|	As u	75	4314.586	4405.305	-0.417	ug/L	20.213
|	Se r	82	94.504	5.186	0.541	ug/L	16.088
|	Se	77	118.254	1356.163	-11.005	ug/L	1.574
L	Sr	88	24745285.902	195.338	1291.741	ug/L	0.962
⌈	Ag r	107	58.001	75.334	-0.003	ug/L	14.186
|	Ag	109	48.667	51.001	-0.001	ug/L	92.977
|	Cd r	111	292.640	301.429	-0.023	ug/L	38.532
|	Cd	106	-5393.738	-3560.056	-8.591	ug/L	13.095
|	Cd	108	-5564.251	-3778.984	-10.885	ug/L	11.850
|	Cd	114	64.034	85.078	-0.007	ug/L	29.751
|	Cd u	111	27.334	40.667	-0.010	ug/L	8.022
|>	In	115	322161.983	290479.820		ug/L	
|	Sb r	123	366.298	58.455	0.066	ug/L	7.403
L	Sb	121	449.351	88.001	0.059	ug/L	3.691

⌈	Sn	118	210.005	158.670	**0.007**	ug/L	71.472
|	Sn r	120	311.343	208.338	**0.011**	ug/L	28.779
|	Ba r	137	651186.313	1262.783	**224.460**	ug/L	1.107
|	Ba	135	392226.833	715.040	**235.231**	ug/L	0.649
|>	Tb	159	349490.351	317043.234		ug/L	
|	Tl r	205	320.010	6618.579	**-0.496**	ug/L	0.177
|	Tl	203	134.336	2735.180	**-0.484**	ug/L	0.242
|	U	238	46833.611	9438.882	**1.765**	ug/L	1.235
⌊	Pb	208	23771.470	9191.574	**0.760**	ug/L	2.207
	Kr	83	95.668	170.337		ug/L	
	Cl	35	213149.697	29074374.350		mg/L	
	C	12	3542611.207	382237.862		mg/L	
	Y	89	332383.112	307756.903		ug/L	
⌈	Br	79	6187.221	2146.654	**12.613**	ug/L	8.670
|	Br	81	19043.403	13971.490	**11.350**	ug/L	8.326
⌊>	Ge-1	72	174908.122	155886.169		ug/L	
	Ru	99	0.667	3.000		ug/L	
	Pd	105	4709.822	3193.362		ug/L	
	Ho	165	336156.731	302920.753		ug/L	
	Th	232	189.338	98.002	**0.006**	ug/L	37.457
⌈	Mo	95	1405.809	188.004	**0.365**	ug/L	5.546
|	Mo	97	848.389	119.335	**0.338**	ug/L	4.120
|	Mo r	98	2264.917	280.009	**0.365**	ug/L	1.393
|	Rh	103	628.365	7846.746		ug/L	
⌊>	In-1	115	322161.983	290479.820		ug/L	
	Ti	47	1016.744	319.343		ug/L	
	Li	7	39312.613	25807.144		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: User

Sample ID: QC Std 6

Sample Description:
Autosampler Position: 9
Sample Date/Time: Thursday, March 15, 2012 12:40:19
Dataset File: C:\Elandata\Dataset\EL120315\QC Std 6.031
Optimization File: C:\Elandata\Optimize\epa.dac
Method File: C:\Elandata\Method\EPA\2008.MTH + B,Sr,Sn,U,Br - 1 CAL STD DIMOCK.mth
Calibration File: C:\Elandata\System\EL120315.cal
Report Title: QUANTITATIVE ANALYSIS REPORT
analysis 200.8 or equivalent

AS

SITE: DIMOCK 1203001

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Sample Unit	Conc. RSD
⌈	Be r	9	239.006	144.003	0.220	ug/L	34.858
|>	Li u	6	309608.698	281809.338		ug/L	
⌊	Li	6	307396.162	279716.379		ug/L	
⌈	Be	9	239.006	144.003	0.297	ug/L	34.868
|	B	11	465.685	250.673	0.450	ug/L	16.096
|	Al	27	5983.387	2958.932	0.507	ug/L	1.701
|>	Sc	45	583839.524	562754.764		ug/L	
|	V r	51	8749.905	6166.366	0.234	ug/L	50.217
|	V u	51	114889.985	107078.035	0.360	ug/L	109.816
|	Cr r	52	16330.815	11412.241	0.558	ug/L	6.607
|	Cr	53	37451.652	35642.987	0.453	ug/L	393.254
|	Mn	55	6566.201	872.392	0.473	ug/L	5.181
|	Co	59	6467.116	4048.773	0.271	ug/L	5.194
|	Ni r	60	1075.419	242.006	0.471	ug/L	10.508
|	Ni	62	283.008	167.670	0.423	ug/L	3.506
|	Cu r	63	2435.076	532.690	0.508	ug/L	4.130
⌊	Cu	65	1219.776	246.340	0.538	ug/L	3.817
⌈	Zn r	66	1202.773	722.375	0.364	ug/L	11.256
|	Zn	67	2155.662	2489.100	-2.362	ug/L	57.064
|	Zn	68	1087.088	773.380	0.287	ug/L	3.886
|>	Ge	72	168411.038	155886.169		ug/L	
|	As r	75	232.804	43.200	0.125	ug/L	42.786
|	As u	75	6409.400	4405.305	1.139	ug/L	6.995
|	Se r	82	75.138	5.186	0.438	ug/L	39.891
|	Se	77	1975.521	1356.163	4.158	ug/L	3.744
⌊	Sr	88	8702.007	195.338	0.460	ug/L	1.460
⌈	Ag r	107	3402.120	75.334	0.439	ug/L	2.245
|	Ag	109	3179.022	51.001	0.432	ug/L	0.974
|	Cd r	111	1057.300	301.429	0.411	ug/L	6.558
|	Cd	106	-3613.300	-3560.056	1.461	ug/L	75.397
|	Cd	108	-3840.208	-3778.984	2.026	ug/L	65.616
|	Cd	114	1817.643	85.078	0.418	ug/L	3.289
|	Cd u	111	803.383	40.667	0.425	ug/L	2.722
|>	In	115	314285.728	290479.820		ug/L	
|	Sb r	123	1935.299	58.455	0.418	ug/L	1.147
⌊	Sb	121	2549.448	88.001	0.422	ug/L	2.103

⌈	Sn	118	2507.767	158.670	**0.448**	ug/L	5.157
|	Sn r	120	3406.121	208.338	**0.445**	ug/L	4.610
|	Ba r	137	2024.954	1262.783	**0.229**	ug/L	5.213
|	Ba	135	1215.775	715.040	**0.269**	ug/L	13.078
|>	Tb	159	344213.621	317043.234		ug/L	
|	Tl r	205	10892.816	6618.579	**0.269**	ug/L	12.375
|	Tl	203	4477.681	2735.180	**0.258**	ug/L	13.788
|	U	238	15659.415	9438.882	**0.267**	ug/L	8.080
⌊	Pb	208	14955.169	9191.574	**0.282**	ug/L	11.585
	Kr	83	99.335	170.337		ug/L	
	Cl	35	30087340.144	29074374.350		mg/L	
	C	12	461216.213	382237.862		mg/L	
	Y	89	319984.291	307756.903		ug/L	
⌈	Br	79	2940.925	2146.654	**2.158**	ug/L	6.832
|	Br	81	15690.480	13971.490	**2.089**	ug/L	14.063
⌊>	Ge-1	72	168411.038	155886.169		ug/L	
	Ru	99	2.667	3.000		ug/L	
	Pd	105	3288.070	3193.362		ug/L	
	Ho	165	326994.365	302920.753		ug/L	
	Th	232	7977.561	98.002	**0.488**	ug/L	7.177
⌈	Mo	95	1527.834	188.004	**0.414**	ug/L	4.176
|	Mo	97	952.735	119.335	**0.399**	ug/L	3.605
|	Mo r	98	2398.250	280.009	**0.401**	ug/L	2.524
|	Rh	103	5148.774	7846.746		ug/L	
⌊>	In-1	115	314285.728	290479.820		ug/L	
	Ti	47	351.012	319.343		ug/L	
	Li	7	27281.575	25807.144		mg/L	

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

Measurement Type		Mass	Out of Limits Message
QC Std 6	Zn	67	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	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%)