APPENDIX D

ANALYTICAL DATA PACKAGES

CT LABORATORIES RESULTS

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ANALYTICAL RESULTS FOR:

GRETCHEN FODOR
WESTON SOLUTIONS, INC
1400 WESTON WAY
WEST CHESTER, PA 19380

PROJECT SITE: Camp Dawson, Kingwood, WV

PROJECT #: 03886.551.008.5900

SDG: 100700

PREPARED: November 4, 2013

TOTAL # OF PAGES IN THIS DOCUMENT: 574

REVISED: 12/13/2013; "Groundwater" references were switched to "Water" per client request.

The data contained in the following report have been reviewed by the appropriate CT Laboratories' LLC staff members. In addition, CT Laboratories LLC certifies that to the best of our knowledge that the analyses reported herein are true, complete and correct within the limits of the methods employed and that they follow the applicable requirements as specified by the project plan, state-specific, NELAC or DOD QSM requirements. The estimated uncertainty of measurement is only available upon request. The reported results relate only to the tested samples. This report shall not be reproduced, except in full, without written approval of CT Laboratories LLC.

APPROVED BY: _____
LABORATORY DIRECTOR

APPROVED BY: _____
QA OFFICER

APPROVED BY: Patrick Letterer
PROJECT MANAGER

Certifications: IL (NELAP 002413), KS (NELAP E-10368), KY (0023), PA (NELAP 68-04201), NJ (NELAP WI001), NC (674), WI (157066030), GA EDP Stipulation (Accreditor: LA NELAP, ACC#: 115843, Scope: Haz/solid water/Non-potable water, Effective: 07/01/2012, Expires: annually), DOD ELAP (A2LA 3317.013), AK (UST-099), LA (NELAP 115843), VA (460203)

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Case Narrative

Client: Weston Solutions, Inc.
Project: Camp Dawson, Kingwood, WV
Sample Receipt Date(s): 10/15/2013
SDG #: 100700

Eleven soil and two water samples were received, processed and analyzed for the requested analyses. The assigned sample ID numbers, date sampled, and date received are indicated in the attached Project Summary. The samples were received intact and at a temperature within method specified acceptance limits. Samples were analyzed following DOD QSM v. 4.2 .

Sample Analysis and Quality Control

Metals Analysis:

The samples were analyzed using US EPA SW-846 methodology 6010C for the lead analysis. All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Initial and Continuing Calibration Verification
Blanks Summary
ICP Interference Check Data
Spike Sample Recovery
Duplicates Data
Laboratory Control Sample Data
Analysis Run Log

All analysis results met the method specified quality control criteria with the following exceptions:

<u>Analytical Run #99511</u>

Continuing Calibration Verification STD's (CCV1) had failures. No Sample results were reported associated to a CCV1 failure.

The Serial Dilution (L) for sample # 381290 was not applicable for lead because the parent sample results were less than 50 times the LOQ. A Post Digestion Spike (PDS) was analyzed with an acceptable recovery for lead on the parent sample. PDS results were reported with out qualification

The DUP for sample # 381290 was not applicable for lead because the parent sample results for this analytes was less than 5 times the LOQ. A Matrix Spike Duplicate (MSD) was analyzed to demonstrate precision and was acceptable. Sample results were reported and not qualified.

<u>Analytical Run #99556</u>

The Serial Dilution (L) for sample # 381282 failed for lead. A PDS was analyzed with an unacceptable recovery for lead on the parent sample. The failed PDS results were reported with an "M" qualification

The MS and/or MSD for sample #'s 381282 exceeded recovery limits. A PDS was analyzed and had unacceptable recoveries in the parent sample. The samples failed PDS results were reported and "M" qualified.

Client: Weston Solutions, Inc.
Project: Camp Dawson, Kingwood, WV
Sample Receipt Date(s): 10/15/2013
SDG #: 100700

Metals Analysis Continued:

Analytical Run #99645

The MS and/or MSD for sample #'s 381285 exceeded recovery limits. A PDS was analyzed and had unacceptable recoveries in the parent sample. The samples failed PDS results were reported and "M" qualified

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Data Qualifiers

Code	Description
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was not above the detection level.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.

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MANUAL INTEGRATION REASON CODES

CTLaboratories has identified four general cases with valid reasons supporting the use of manual integration techniques. These codes are used on chromatograms in this data package to document the reasons for manual integrations per CTLaboratories' SOP SS-10 current revision.

#1: **Data system failed to select the correct peak or missed the peak entirely.**
In some cases the chromatography system selects and integrates the "wrong peak". In this case the analyst must correct the selection and force the system to integrate the proper peak. In other instances the system may miss the peak completely. In this case the analyst manually integrated the peak

#2: **Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.**
This phenomenon is common at low concentrations where the signal to noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low or high area counts for the target compound.

#3: Improperly Integrated Isomers and/or coeluting compounds.
For when the system fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations may be inaccurate, and they must be corrected by manual integration. Prime examples are compounds that are unresolved and integrated improperly when present at low concentrations in standards or samples.

#4: System Established Incorrect Baseline.
There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and may be corrected via manual procedures.

#5: Miscellaneous.
Some situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the group supervisor. If the form of manual integration is not clearly covered by these four cases, then review and approval by the group supervisor or the *QA/QC* Supervisor will be required.

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Sample Delivery Group
100700

WESTON SOLUTIONS, INC.
JESS ANDERSON
1400 WESTON WAY
WEST CHESTER, PA 19380

Project Name: CAMP DAWSON
Project #: 03886.551.008.5900

CT Sample #	Folder #	Client Sample #	Sample Description	Matrix	Date Sampled	Date Received
381281	100700		CDW-KD-03-SS01-00	SOIL	10/07/2013	10/15/2013
381282	100700		CDW-KD-13-SS01-05	SOIL	10/08/2013	10/15/2013
381283	100700		CDW-KD-16-SS01-00	SOIL	10/08/2013	10/15/2013
381284	100700		CDW-KD-23-SS01-00	SOIL	10/08/2013	10/15/2013
381285	100700		CDW-KD-23-SS01-00	TCLP	10/08/2013	10/15/2013
381286	100700		CDW-KD-07-SS01-00	TCLP	10/08/2013	10/15/2013
381287	100700		CDW-KD-12-SS02-00	TCLP	10/08/2013	10/15/2013
381288	100700		CDW-KD-23-SS02-00	TCLP	10/08/2013	10/15/2013
381289	100700		CDW-KD-35-SS01-00	SOIL	10/09/2013	10/15/2013
381290	100700		CDW-KD-35-SS01-02	WATER	10/09/2013	10/15/2013
381291	100700		CDW-KD-39-SS01-00	SOIL	10/09/2013	10/15/2013
381292	100700		CDW-KD-39-SS01-01	SOIL	10/09/2013	10/15/2013
381293	100700		CDW-KD-AA-FB01-04	WATER	10/09/2013	10/15/2013
381294	100700		CDW-KD-49-SS01-00	SOIL	10/10/2013	10/15/2013

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QC Batch Cross Reference Summary

WESTON SOLUTIONS, INC.
JESS ANDERSON
1400 WESTON WAY
WEST CHESTER, PA 19380

Copy: JESS.ANDERSON@WESTONSOLUTIONS.

Project Name:	CAMP DAWSON
Project #:	03886.551.008.5900
Report Date:	11/04/2013
Date Received:	10/15/2013
SDG #:	100700

Inorganic Parameters

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
381281	Solids, Percent	SOIL		99381
381282	Solids, Percent	SOIL		99381
381283	Solids, Percent	SOIL		99381
381284	Solids, Percent	SOIL		99381
381289	Solids, Percent	SOIL		99381
381291	Solids, Percent	SOIL		99381
381292	Solids, Percent	SOIL		99381
381294	Solids, Percent	SOIL		99381

Metal Parameters

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
381281	ICP Metals QSM	SOIL	46442	99556
381282	ICP Metals QSM	SOIL	46442	99556
381283	ICP Metals QSM	SOIL	46442	99556
381284	ICP Metals QSM	SOIL	46442	99556
381289	ICP Metals QSM	SOIL	46442	99556
381291	ICP Metals QSM	SOIL	46442	99556
381292	ICP Metals QSM	SOIL	46442	99556
381294	ICP Metals QSM	SOIL	46442	99556

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
381290	ICP Metals, Total QSM	WATER	46498	99511
381293	ICP Metals, Total QSM	WATER	46498	99511

CTI LAB#:	Parameter	Matrix	Prep Batch #	Analytical Run #
381285	ICP Metals QSM TCLP	TCLP	46547	99645
381286	ICP Metals QSM TCLP	TCLP	46547	99645
381287	ICP Metals QSM TCLP	TCLP	46547	99645
381288	ICP Metals QSM TCLP	TCLP	46547	99645

METALS
CLP FORMS
DOCUMENTS

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INORGANIC ANALYSIS DATA SHEET

Sample Description

CDW-KD-03-SS01-00

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix (soil/water):	SOIL	SDG No.:	100700
% Solids:	72.1	Lab Sample ID:	381281
Analytical Method:	EPA 6010C	Date Received:	10/15/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	99556	Analysis Date/Time	10/22/2013 03:34
Analytical Prep Batch #:	46442	Prep. Date/Time:	10/21/2013 07:30
ICAL Calibration #:		Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-92-1	Lead	2550		0.054	0.17	0.34	0.34

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INORGANIC ANALYSIS DATA SHEET

Sample Description

CDW-KD-07-SS01-00

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix (soil/water):	TCLP	SDG No.:	100700
% Solids:		Lab Sample ID:	381286
Analytical Method:	EPA 6010C	Date Received:	10/15/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	10/18/2013 07:00
Analytical Run #:	99645	Analysis Date/Time	10/23/2013 22:40
Analytical Prep Batch #:	46547	Prep. Date/Time:	10/22/2013 13:30
ICAL Calibration #:		Concentration Units:	mg/L

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-92-1	Lead	2.7		0.0014	0.0020	0.0040	0.0040

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INORGANIC ANALYSIS DATA SHEET

Sample Description

CDW-KD-12-SS02-00

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix (soil/water):	TCLP	SDG No.:	100700
% Solids:		Lab Sample ID:	381287
Analytical Method:	EPA 6010C	Date Received:	10/15/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	10/18/2013 07:00
Analytical Run #:	99645	Analysis Date/Time	10/23/2013 22:43
Analytical Prep Batch #:	46547	Prep. Date/Time:	10/22/2013 13:30
ICAL Calibration #:		Concentration Units:	mg/L

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-92-1	Lead	0.71		0.0014	0.0020	0.0040	0.0040

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INORGANIC ANALYSIS DATA SHEET

Sample Description

CDW-KD-13-SS01-05

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix (soil/water):	SOIL	SDG No.:	100700
% Solids:	68.8	Lab Sample ID:	381282
Analytical Method:	EPA 6010C	Date Received:	10/15/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	99556	Analysis Date/Time	10/22/2013 03:38
Analytical Prep Batch #:	46442	Prep. Date/Time:	10/21/2013 07:30
ICAL Calibration #:		Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-92-1	Lead	302	M	0.058	0.18	0.36	0.36

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INORGANIC ANALYSIS DATA SHEET

Sample Description

CDW-KD-16-SS01-00

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix (soil/water):	SOIL	SDG No.:	100700
% Solids:	70.1	Lab Sample ID:	381283
Analytical Method:	EPA 6010C	Date Received:	10/15/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	99556	Analysis Date/Time	10/22/2013 04:13
Analytical Prep Batch #:	46442	Prep. Date/Time:	10/21/2013 07:30
ICAL Calibration #:		Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-92-1	Lead	127		0.057	0.18	0.35	0.35

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INORGANIC ANALYSIS DATA SHEET

Sample Description

CDW-KD-23-SS01-00

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix (soil/water):	SOIL	SDG No.:	100700
% Solids:	79.4	Lab Sample ID:	381284
Analytical Method:	EPA 6010C	Date Received:	10/15/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	99556	Analysis Date/Time	10/22/2013 04:16
Analytical Prep Batch #:	46442	Prep. Date/Time:	10/21/2013 07:30
ICAL Calibration #:		Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-92-1	Lead	2310		0.050	0.16	0.31	0.31

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INORGANIC ANALYSIS DATA SHEET

Sample Description

CDW-KD-23-SS01-00

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix (soil/water):	TCLP	SDG No.:	100700
% Solids:		Lab Sample ID:	381285
Analytical Method:	EPA 6010C	Date Received:	10/15/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	10/18/2013 07:00
Analytical Run #:	99645	Analysis Date/Time	10/23/2013 22:05
Analytical Prep Batch #:	46547	Prep. Date/Time:	10/22/2013 13:30
ICAL Calibration #:		Concentration Units:	mg/L

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-92-1	Lead	11	M	0.0014	0.0020	0.0040	0.0040

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INORGANIC ANALYSIS DATA SHEET

Sample Description

CDW-KD-23-SS02-00

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix (soil/water):	TCLP	SDG No.:	100700
% Solids:		Lab Sample ID:	381288
Analytical Method:	EPA 6010C	Date Received:	10/15/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	10/18/2013 07:00
Analytical Run #:	99645	Analysis Date/Time	10/23/2013 22:47
Analytical Prep Batch #:	46547	Prep. Date/Time:	10/22/2013 13:30
ICAL Calibration #:		Concentration Units:	mg/L

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-92-1	Lead	0.030		0.0014	0.0020	0.0040	0.0040

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INORGANIC ANALYSIS DATA SHEET

Sample Description

CDW-KD-35-SS01-00

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix (soil/water):	SOIL	SDG No.:	100700
% Solids:	74.3	Lab Sample ID:	381289
Analytical Method:	EPA 6010C	Date Received:	10/15/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	99556	Analysis Date/Time	10/22/2013 04:20
Analytical Prep Batch #:	46442	Prep. Date/Time:	10/21/2013 07:30
ICAL Calibration #:		Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-92-1	Lead	195		0.052	0.16	0.32	0.32

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INORGANIC ANALYSIS DATA SHEET

Sample Description

CDW-KD-35-SS01-02

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix (soil/water):	WATER	SDG No.:	100700
% Solids:		Lab Sample ID:	381290
Analytical Method:	EPA 6010C	Date Received:	10/15/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	99511	Analysis Date/Time	10/22/2013 00:51
Analytical Prep Batch #:	46498	Prep. Date/Time:	10/18/2013 11:00
ICAL Calibration #:		Concentration Units:	ug/L

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-92-1	Total Lead	2.0	U	1.4	2.0	4.0	4.0

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INORGANIC ANALYSIS DATA SHEET

Sample Description

CDW-KD-39-SS01-00

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix (soil/water):	SOIL	SDG No.:	100700
% Solids:	83.3	Lab Sample ID:	381291
Analytical Method:	EPA 6010C	Date Received:	10/15/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	99556	Analysis Date/Time	10/22/2013 04:24
Analytical Prep Batch #:	46442	Prep. Date/Time:	10/21/2013 07:30
ICAL Calibration #:		Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-92-1	Lead	67.6		0.049	0.15	0.30	0.30

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INORGANIC ANALYSIS DATA SHEET

Sample Description

CDW-KD-39-SS01-01

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix (soil/water):	SOIL	SDG No.:	100700
% Solids:	83.5	Lab Sample ID:	381292
Analytical Method:	EPA 6010C	Date Received:	10/15/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	99556	Analysis Date/Time	10/22/2013 04:28
Analytical Prep Batch #:	46442	Prep. Date/Time:	10/21/2013 07:30
ICAL Calibration #:		Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-92-1	Lead	64.1		0.048	0.15	0.30	0.30

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INORGANIC ANALYSIS DATA SHEET

Sample Description

CDW-KD-49-SS01-00

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix (soil/water):	SOIL	SDG No.:	100700
% Solids:	75.3	Lab Sample ID:	381294
Analytical Method:	EPA 6010C	Date Received:	10/15/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	99556	Analysis Date/Time	10/22/2013 04:32
Analytical Prep Batch #:	46442	Prep. Date/Time:	10/21/2013 07:30
ICAL Calibration #:		Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-92-1	Lead	78.5		0.054	0.17	0.34	0.34

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INORGANIC ANALYSIS DATA SHEET

Sample Description

CDW-KD-AA-FB01-04

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix (soil/water):	WATER	SDG No.:	100700
% Solids:		Lab Sample ID:	381293
Analytical Method:	EPA 6010C	Date Received:	10/15/2013
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	99511	Analysis Date/Time	10/22/2013 01:14
Analytical Prep Batch #:	46498	Prep. Date/Time:	10/18/2013 11:00
ICAL Calibration #:		Concentration Units:	ug/L

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
7439-92-1	Total Lead	2.0	U	1.4	2.0	4.0	4.0

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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99511

Lab Sample ID: 385574

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/21/13	14:58	500.0	511.0	102	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99511

Lab Sample ID: 385575

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/21/13	15:01	30.00	32.00	107	70	130

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99556

Lab Sample ID: 385684

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/21/13	14:58	500.0	511.0	102	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99556

Lab Sample ID: 385685

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/21/13	15:01	30.00	32.00	107	70	130

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99645

Lab Sample ID: 388855

ICAL Calibration #:

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/23/13	16:08	0.500	0.493	99	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99645

Lab Sample ID: 388856

ICAL Calibration #:

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/23/13	16:12	0.0300	0.0302	101	70	130

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99645

Lab Sample ID: 388861

ICAL Calibration #:

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/23/13	21:38	5.00	5.07	101	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99645

Lab Sample ID: 388862

ICAL Calibration #:

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/23/13	21:42	0.500	0.550	110	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99645

Lab Sample ID: 388866

ICAL Calibration #:

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/23/13	22:28	5.00	5.33	107	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
deliverING more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99645

Lab Sample ID: 388867

ICAL Calibration #:

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/23/13	22:32	0.500	0.525	105	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99645

Lab Sample ID: 388869

ICAL Calibration #:

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/23/13	23:20	5.00	5.43	109	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99645

Lab Sample ID: 388871

ICAL Calibration #:

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/23/13	23:24	0.500	0.533	107	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99511

Lab Sample ID: 385580

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	
Lead	10/21/13	23:50	5000	4280	86	90	110	FAIL

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99511

Lab Sample ID: 385581

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/21/13	23:54	500.0	479.0	96	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
deliverING more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99511

Lab Sample ID: 385583

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	
Lead	10/22/13	00:40	5000	4060	81	90	110	FAIL

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
deliverING more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99511

Lab Sample ID: 385584

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/22/13	00:44	500.0	472.0	94	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99511

Lab Sample ID: 385588

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)	
Lead	10/22/13	01:30	5000	4220	84	90	110	FAIL

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99511

Lab Sample ID: 385589

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/22/13	01:34	500.0	476.0	95	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99556

Lab Sample ID: 385690

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/22/13	03:12	5000	4730	95	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99556

Lab Sample ID: 385691

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/22/13	03:16	500.0	486.0	97	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99556

Lab Sample ID: 385695

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/22/13	04:01	5000	4740	95	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99556

Lab Sample ID: 385696

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/22/13	04:05	500.0	482.0	96	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
deliverING more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99556

Lab Sample ID: 385698

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/22/13	04:51	5000	4720	94	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99556

Lab Sample ID: 385699

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Lead	10/22/13	04:55	500.0	481.0	96	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

3-1

INITIAL CALIBRATION BLANKS

Sample No

ICB

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99511

Lab Sample ID: 385576

Analytical Prep Batch # 0

Preparation Date/Time:

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Lead	10/21/2013 15:09	0.302			2.0

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99556

Lab Sample ID: 385686

Analytical Prep Batch # 0

Preparation Date/Time:

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Lead	10/21/2013 15:09	0.302			5.0

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99645

Lab Sample ID: 388857

Analytical Prep Batch # 0

Preparation Date/Time:

ICAL Calibration #:

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Lead	10/23/2013 16:20	-0.00197			0.0020

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99511

Lab Sample ID: 385582

Analytical Prep Batch # 0

Preparation Date/Time:

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Lead	10/21/2013 23:57	-0.292			2.0

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99511

Lab Sample ID: 385585

Analytical Prep Batch # 0

Preparation Date/Time:

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Lead	10/22/2013 00:48	0.440			2.0

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99511

Lab Sample ID: 385590

Analytical Prep Batch # 0

Preparation Date/Time:

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Lead	10/22/2013 01:37	0.420			2.0

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99556

Lab Sample ID: 385692

Analytical Prep Batch # 0

Preparation Date/Time:

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Lead	10/22/2013 03:19	-0.851			5.0

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99556

Lab Sample ID: 385697

Analytical Prep Batch # 0

Preparation Date/Time:

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Lead	10/22/2013 04:09	-0.551			5.0

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99556

Lab Sample ID: 385700

Analytical Prep Batch # 0

Preparation Date/Time:

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Lead	10/22/2013 04:58	0.491			5.0

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99645

Lab Sample ID: 388863

Analytical Prep Batch # 0

Preparation Date/Time:

ICAL Calibration #:

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Lead	10/23/2013 21:45	-0.00110			0.0020

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99645

Lab Sample ID: 388868

Analytical Prep Batch # 0

Preparation Date/Time:

ICAL Calibration #:

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Lead	10/23/2013 22:36	-0.000727			0.0020

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99645

Lab Sample ID: 388872

Analytical Prep Batch # 0

Preparation Date/Time:

ICAL Calibration #:

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Lead	10/23/2013 23:27	-0.000598			0.0020

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99556

Lab Sample ID: 381576

Analytical Prep Batch # 46442

Preparation Date/Time: 10/21/2013 07:30

ICAL Calibration #:

Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Lead	10/22/2013 03:30	0.00040	U	0.04	0.125

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

3-3

METHOD BLANKS

Sample No

MB

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99511

Lab Sample ID: 383735

Analytical Prep Batch # 46498

Preparation Date/Time: 10/18/2013 11:00

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Total Lead	10/22/2013 00:36	0.0310	U	1.4	2.0

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

SDG No.: 100700

Analytical Run #: 99645

Lab Sample ID: 385765

Analytical Prep Batch # 46547

Preparation Date/Time: 10/22/2013 13:30

ICAL Calibration #:

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Lead	10/23/2013 22:01	-0.00224	U	0.0014	0.0020

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

ICSA

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

ICP ID Number: TJA 6000

SDG No.: 100700

ICS Source: SPEX

Analytical Run #: 99511

Lab Sample ID: 385578

Inorganics MRL Standard Source: SPEX, Ultra,Inorganic Ventures and Mallinkrodt

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)
Aluminum	10/21/2013 15:17	500000	482000	96	80	120
Calcium	10/21/2013 15:17	500000	556000	111	80	120
Iron	10/21/2013 15:17	500000	437000	87	80	120
Lead	10/21/2013 15:17	0	0		-2.0	2.0
Magnesium	10/21/2013 15:17	500000	504000	101	80	120

CT LABORATORIES
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Sample No:

ICSA

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

ICP ID Number: TJA 6000

SDG No.: 100700

ICS Source: SPEX

Analytical Run #: 99556

Lab Sample ID: 385688

Inorganics MRL Standard Source: SPEX, Ultra,Inorganic Ventures and Mallinkrodt

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)
Aluminum	10/21/2013 15:17	500000	482000	96	80	120
Calcium	10/21/2013 15:17	500000	556000	111	80	120
Iron	10/21/2013 15:17	500000	437000	87	80	120
Lead	10/21/2013 15:17	0	0		-5.0	5.0
Magnesium	10/21/2013 15:17	500000	504000	101	80	120

CT LABORATORIES
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Sample No:

ICSA

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

ICP ID Number: TJA 6000

SDG No.: 100700

ICS Source: SPEX

Analytical Run #: 99645

Lab Sample ID: 388859

Inorganics MRL Standard Source: SPEX, Ultra,Inorganic Ventures and Mallinkrodt

ICAL Calibration #:

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)
Aluminum	10/23/2013 16:27	500.0	470.0	94	80	120
Calcium	10/23/2013 16:27	500.0	508.0	102	80	120
Iron	10/23/2013 16:27	500.0	423.0	85	80	120
Lead	10/23/2013 16:27	0	0.00000100		-1	0.0020
Magnesium	10/23/2013 16:27	500.0	488.0	98	80	120

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

ICSAB

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

ICP ID Number: TJA 6000

SDG No.: 100700

ICS Source: SPEX, Ultra

Analytical Run #: 99511

Lab Sample ID: 385579

Inorganics MRL Standard Source: SPEX, Ultra,Inorganic Ventures and Mallinkrodt

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)
Aluminum	10/21/2013 15:21	500000	481000	96	80	120
Calcium	10/21/2013 15:21	500000	558000	112	80	120
Iron	10/21/2013 15:21	500000	441000	88	80	120
Lead	10/21/2013 15:21	500.0	482.0	96	80	120
Magnesium	10/21/2013 15:21	500000	502000	100	80	120

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

ICSAB

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

ICP ID Number: TJA 6000

SDG No.: 100700

ICS Source: SPEX, Ultra

Analytical Run #: 99556

Lab Sample ID: 385689

Inorganics MRL Standard Source: SPEX, Ultra,Inorganic Ventures and Mallinkrodt

ICAL Calibration #:

Concentration Units: ug/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)
Aluminum	10/21/2013 15:21	500000	481000	96	80	120
Calcium	10/21/2013 15:21	500000	558000	112	80	120
Iron	10/21/2013 15:21	500000	441000	88	80	120
Lead	10/21/2013 15:21	500.0	482.0	96	80	120
Magnesium	10/21/2013 15:21	500000	502000	100	80	120

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

ICSAB

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

ICP ID Number: TJA 6000

SDG No.: 100700

ICS Source: SPEX, Ultra

Analytical Run #: 99645

Lab Sample ID: 388860

Inorganics MRL Standard Source: SPEX, Ultra,Inorganic Ventures and Mallinkrodt

ICAL Calibration #:

Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)
Aluminum	10/23/2013 16:31	500.0	474.0	95	80	120
Calcium	10/23/2013 16:31	500.0	503.0	101	80	120
Iron	10/23/2013 16:31	500.0	424.0	85	80	120
Lead	10/23/2013 16:31	0.500	0.432	86	80	120
Magnesium	10/23/2013 16:31	500.0	486.0	97	80	120

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

CDW-KD-13-SS01-05

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix:	SOLID	SDG No.:	100700
% Solids for Sample:	68.8	Concentration Units:	mg/kg
Sample No	381579	Parent Sample No.:	381282
Analytical Prep Batch #	46442	Analytical Preparation Date/Time:	10/21/2013 07:30
Analytical Run #:	99556	ICAL Calibration #:	

Analysis Type *Initial Analysis* Analysis Date: ----- 10/22/2013 Analysis Time: -------- 03:49

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Lead	80-120	299		302		36.0	0		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

CDW-KD-35-SS01-02

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix:	LIQUID	SDG No.:	100700
% Solids for Sample:		Concentration Units:	ug/L
Sample No	383738	Parent Sample No.:	381290
Analytical Prep Batch #	46498	Analytical Preparation Date/Time:	10/18/2013 11:00
Analytical Run #:	99511	ICAL Calibration #:	

Analysis Type *Initial Analysis* Analysis Date: ----- 10/22/2013 Analysis Time: -------- 01:03

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Total Lead	80-120	204		BDL	U	200	102		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

CDW-KD-23-SS01-00

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix:	LIQUID	SDG No.:	100700
% Solids for Sample:		Concentration Units:	mg/L
Sample No	385768	Parent Sample No.:	381285
Analytical Prep Batch #	46547	Analytical Preparation Date/Time:	10/22/2013 13:30
Analytical Run #:	99645	ICAL Calibration #:	

Analysis Type *Initial Analysis* Analysis Date: ----- 10/23/2013 Analysis Time: -------- 22:17

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Lead	80-120	10.7		11		0.200	0		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

Sample Description

CDW-KD-35-SS01-02

POST DIGESTION SPIKE SAMPLE RECOVERY

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix:	LIQUID	SDG No.:	100700
% Solids for Sample:		Concentration Units:	ug/L
Sample No	385587	Parent Sample No.:	381290
Analytical Prep Batch #	0	Analytical Preparation Date/Time:	
Analytical Run #:	99511	ICAL Calibration #:	

Analysis Type *Initial Analysis* Analysis Date: ----- 10/22/2013 Analysis Time: -------- 01:10

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Lead	75-125	880		BDL	U	1000	88		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

Sample Description

CDW-KD-13-SS01-05

POST DIGESTION SPIKE SAMPLE RECOVERY

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix:	SOLID	SDG No.:	100700
% Solids for Sample:	68.8	Concentration Units:	ug/L
Sample No	385694	Parent Sample No.:	381282
Analytical Prep Batch #	0	Analytical Preparation Date/Time:	
Analytical Run #:	99556	ICAL Calibration #:	

Analysis Type	*Initial Analysis*	Analysis Date: -----	10/22/2013	Analysis Time: --------	03:57

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Lead	75-125	7870.		8390.		1000	0		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

Sample Description

CDW-KD-23-SS01-00

POST DIGESTION SPIKE SAMPLE RECOVERY

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix:	LIQUID	SDG No.:	100700
% Solids for Sample:		Concentration Units:	mg/L
Sample No	388865	Parent Sample No.:	381285
Analytical Prep Batch #	0	Analytical Preparation Date/Time:	
Analytical Run #:	99645	ICAL Calibration #:	

Analysis Type *Initial Analysis* Analysis Date: ----- 10/23/2013 Analysis Time: -------- 22:24

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Lead	75-125	11.7		11		1	70		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

Sample Description

CDW-KD-13-SS01-05

SPIKE DUPLICATE SAMPLE RECOVERY

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix:	SOLID	SDG No.:	100700
% Solids for Sample:	68.8	Concentration Units:	mg/kg
Sample No	381580	Parent Sample No.:	381579
Analytical Prep Batch #	46442	Analytical Preparation Date/Time:	10/21/2013 07:30
Analytical Run #:	99556	ICAL Calibration #:	

Analysis Type	*Initial Analysis*	Analysis Date: -----	10/22/2013	Analysis Time: --------	03:53

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Lead	80-120	312		302		36.0	28		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

CDW-KD-35-SS01-02

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix:	LIQUID	SDG No.:	100700
% Solids for Sample:		Concentration Units:	ug/L
Sample No	383739	Parent Sample No.:	383738
Analytical Prep Batch #	46498	Analytical Preparation Date/Time:	10/18/2013 11:00
Analytical Run #:	99511	ICAL Calibration #:	

Analysis Type	*Initial Analysis*	Analysis Date: -----	10/22/2013	Analysis Time: --------	01:07

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Total Lead	80-120	216		BDL	U	200	108		P

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

Sample Description

CDW-KD-23-SS01-00

SPIKE DUPLICATE SAMPLE RECOVERY

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix:	LIQUID	SDG No.:	100700
% Solids for Sample:		Concentration Units:	mg/L
Sample No	385771	Parent Sample No.:	385768
Analytical Prep Batch #	46547	Analytical Preparation Date/Time:	10/22/2013 13:30
Analytical Run #:	99645	ICAL Calibration #:	

Analysis Type *Initial Analysis* Analysis Date: ----- 10/23/2013 Analysis Time: -------- 22:20

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Lead	80-120	10.9		11		0.200	0		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

CDW-KD-13-SS01-05

Lab Name:	CT Laboratories	Contract:	WESTON SOLUTIONS, INC.-CAMP DAWSON
Matrix:	SOLID	SDG No.:	100700
% Solid for Sample:	68.8	Concentration Units:	mg/kg
Analytical Prep Batch #	1	Analytical Preparation Date/Time	46442
Analytical Run #:	99556	ICAL Calibration #:	
Sample #:	381578	Parent Sample #:	381282

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Lead	10/22/2013	03:46	20	302		272		10		P

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

CDW-KD-35-SS01-02

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

Matrix: LIQUID

SDG No.: 100700

% Solid for Sample:

Concentration Units: ug/L

Analytical Prep Batch # 1

Analytical Preparation Date/Time 46498

Analytical Run #: 99511

ICAL Calibration #:

Sample #: 383737

Parent Sample #: 381290

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Total Lead	10/22/2013	00:59	20	1.4	U	1.4	U	0		P

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

CDW-KD-23-SS01-00

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

Matrix: LIQUID

SDG No.: 100700

% Solid for Sample:

Concentration Units: mg/L

Analytical Prep Batch # 1

Analytical Preparation Date/Time 46547

Analytical Run #: 99645

ICAL Calibration #:

Sample #: 385767

Parent Sample #: 381285

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Lead	10/23/2013	22:13	20	11		10.6		4		P

CT LABORATORIES
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6A

MATRIX SPIKE DUPLICATES

Sample Description

CDW-KD-13-SS01-05

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

Matrix: SOLID

SDG No.: 100700

% Solid for Sample: 68.8

Concentration Units: mg/kg

Analytical Prep Batch # 46442

Analytical Preparation Date/Time 10/21/2013 07:30

Analytical Run #: 99556

ICAL Calibration #:

Sample #: 381580

Parent Sample #: 381579

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Lead	10/22/2013	03:53	20	299		312		4		P

CT LABORATORIES
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6A

MATRIX SPIKE DUPLICATES

Sample Description

CDW-KD-35-SS01-02

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

Matrix: LIQUID

SDG No.: 100700

% Solid for Sample:

Concentration Units: ug/L

Analytical Prep Batch # 46498

Analytical Preparation Date/Time 10/18/2013 11:00

Analytical Run #: 99511

ICAL Calibration #:

Sample #: 383739

Parent Sample #: 383738

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Total Lead	10/22/2013	01:07	20	204		216		6		P

CT LABORATORIES
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6A

MATRIX SPIKE DUPLICATES

Sample Description

CDW-KD-23-SS01-00

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

Matrix: LIQUID

SDG No.: 100700

% Solid for Sample:

Concentration Units: mg/L

Analytical Prep Batch # 46547

Analytical Preparation Date/Time 10/22/2013 13:30

Analytical Run #: 99645

ICAL Calibration #:

Sample #: 385771

Parent Sample #: 385768

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Lead	10/23/2013	22:20	20	10.7		10.9		2		P

CT LABORATORIES
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7-1

Sample No:

LABORATORY CONTROL SAMPLE - AQUEOUS

LCS

Lab Name: CT Laboratories

Contract WESTON SOLUTIONS, INC.-CAMP DAWSON

LCS Source: SPEX and Ultra

SDG No.: 100700

Concentration Units: ug/L

Analytical Run #: 99511

Sample No.:#: 383736

Analytical Prep Batch #: 46498

Preparation Date/Time: 10/18/2013 11:00

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Total Lead	10/22/2013 00:33	80-120	200.0		200.0	100		P

CT LABORATORIES
delivering more than data from your environmental analyses

7-1

Sample No:

LABORATORY CONTROL SAMPLE - AQUEOUS

LCS

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

LCS Source: SPEX and Ultra

SDG No.: 100700

Concentration Units: mg/L

Analytical Run #: 99645

Sample No.:#: 385766

Analytical Prep Batch #: 46547

Preparation Date/Time: 10/22/2013 13:30

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Lead	10/23/2013 21:57	80-120	0.221		0.200	110		P

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No:

LCS

LABORATORY CONTROL SAMPLE - SOLID

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

LCS Source: SPEX and Ultra

SDG No.: 100700

Concentration Units: mg/kg

Analytical Run #: 99556

Sample No.:#: 381577

Analytical Prep Batch #: 46442

Preparation Date/Time: 10/21/2013 07:30

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Lead	10/22/2013 03:27	80-120	20.7		23.8	87		P

CT LABORATORIES
delivering more than data from your environmental analyses

9

ICP SERIAL DILUTION

Sample Description

CDW-KD-35-SS01-02

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

Matrix: LIQUID

SDG No.: 100700

Concentration Units: ug/L

Sample No.: 385586

Parent Sample No.: 381290

LIMS Run #: 99511

ICAL Calibration #:.:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time		Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Lead	10/22/2013	00:55	BDL	U	7	U	0		P	*INVALID*

CT LABORATORIES
delivering more than data from your environmental analyses

9

ICP SERIAL DILUTION

Sample Description

CDW-KD-13-SS01-05

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

Matrix: SOLID

SDG No.: 100700

Concentration Units: ug/L

Sample No.: 385693

Parent Sample No.: 381282

LIMS Run #: 99556

ICAL Calibration #:.:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time		Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Lead	10/22/2013	03:42	8390.		10050		20		P	*FAIL*

CT LABORATORIES
delivering more than data from your environmental analyses

9

ICP SERIAL DILUTION

Sample Description

CDW-KD-23-SS01-00

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

Matrix: LIQUID

SDG No.: 100700

Concentration Units: ug/L

Sample No.: 388864

Parent Sample No.: 381285

LIMS Run #: 99645

ICAL Calibration #:.:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M
Lead	10/23/2013 22:09	10900.		11250		3		P

CT LABORATORIES
delivering more than data from your environmental analyses

10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CT Laboratories Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

ICP ID Number: TJA SDG No.: 100700

Matrix: LIQUID

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	MDL (mg/L)	M
Lead	220.35			0.0014	P

CT LABORATORIES
delivering more than data from your environmental analyses

10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CT Laboratories Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

ICP ID Number: TJA SDG No.: 100700

Matrix: LIQUID

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	MDL (ug/L)	M
Total Lead	220.35			1.4	P

CT LABORATORIES
delivering more than data from your environmental analyses

10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CT Laboratories Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

ICP ID Number: TJA SDG No.: 100700

Matrix: SOLID

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	MDL (mg/k)	M
Lead	220.35			0.04	P

CT LABORATORIES
delivering more than data from your environmental analyses

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CT Laboratories Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 100700

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	*Ca*	*Fe*	*Si (*Mg)*
Aluminum/1	167.079			0.000627 / 0.000627	
Aluminum/2	309.271				
Aluminum/3	396.152				
Antimony/1	206.833			0.000036 / 0.000021	0.069000* / 0.06900*
Antimony/2	217.581			-0.000166/-0.000166	0.050000* / 0.05000*
Arsenic/1	189.042			0.000240 / 0.000240	
Arsenic/2	193.759			0.001207 / 0.001692	
Barium/1	455.403			0.000002 / 0.000003	
Barium/2	493.409			0.000230 / 0.000130	
Beryllium/1	234.861			-0.000120 / 0.000080	
Beryllium/2	313.042			0.000000 / 0.000000	
Cadmium/1	226.502			0.000079 / 0.000130	
Cadmium/2	228.802			0.000000 / 0.000000	
Calcium/1	317.933				
Calcium/2	393.366				
Calcium/3	396.847				
Chromium/1	283.563			0.001012/ 0.000511	
Chromium/2	267.716			0.000005 / 0.000001	
Cobalt/1	228.616			0.000001 / 0.000002	-0.20 Cu / -0.20 Cu
Cobalt/2	238.892			-0.000680/-0.000087	
Copper/1	224.700			0.000028 / 0.000042	
Copper/2	324.754			-0.000025/-0.000025	
Copper/3	327.396			-0.000038/-0.00038	
Iron/1	234.349				
Iron/2	239.562				

CT LABORATORIES
delivering more than data from your environmental analyses

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CT Laboratories Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 100700

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	*Ca*	*Fe*	*Si (*Mg)*
Iron/3	259.940				
Lead/1	216.999	0.001232 / 0.000632		------- / 0.002113	
Lead/2	220.353	0.0090 Co / 0.010 Co	0.0080 V / 0.010 V	-0.000063/-0.000009	0.000000 / 0.000000
Magnesium/1	279.079				
Magnesium/2	279.553				
Magnesium/3	280.270				
Manganese/1	257.610	0.000003 /-0.00072			
Manganese/2	259.373				0.002328*/0.001928*
Molybdenum/1	202.030			-0.000014/-0.000010	
Molybdenum/2	204.598			0.000026 / 0.000026	
Molybdenum/3	203.844				
Nickel/1	221.647		0.000015 / 0.000015		
Nickel/2	231.604			-0.000005 / 0.000038	-0.20 Co / -0.20 Co
Selenium/1	196.090			-0.000386 /-0.000370	
Selenium/2	206.279			0.000638 / 0.000638	
Silver/1	328.068			-0.000227/-0.000281	
Silver/2	338.289		0.000514/ 0.000514		
Thallium/1	190.856			-0.000007 / 0.000001	0.0080 Ti /0.0080 Ti
Thallium/2	276.787			0.000000 / 0.00000	0.030232*/0.030232*
Tin (1 [ ] line)	189.989				
Tin (2 [ ] line)	189.989				
Tungsten/3	209.475				
Tungsten/4	257.144				
Vanadium/1	292.402			0.000005 /-0.000009	
Vanadium/2	292.882			0.000171 / 0.000171	

CT LABORATORIES
delivering more than data from your environmental analyses

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CT Laboratories Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 100700

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	*Ca*	*Fe*	*Si (*Mg)*
Zinc/1	206.200			0.000051 / 0.000051	
Zinc/2	213.856			0.000167 / 0.000151	

CT LABORATORIES
delivering more than data from your environmental analyses

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CT Laboratories Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 100700

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	*Ca*	*Fe*	*Si (*Mg)*
Aluminum/4	308.215				
Calcium/1	317.933				
Iron/1	234.349				
Magnesium/4	285.213				
Potassium	766.490			0.000009/-0.001691	
Sodium/1	330.237			-0.000390/ 0.000326	
Sodium/2	589.592			-0.000197/-0.000471	

CT LABORATORIES
delivering more than data from your environmental analyses

11C

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CT Laboratories Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

ICP ID Number: TA ICAP6000 / ICAP6500 SDG No.: 100700

Analyte	Wavelength (nm)	Interelement Correction Factors for:			
		Al	*Ca*	*Fe*	*Si (*Mg)*
Aluminum/2	309.271				
Calcium/1	317.933				
Iron/3	259.940				
Lithium	670.784	0.001600 / 0.000317			
Magnesium/1	279.079				
Strontium/1	407.771		0.000010 / 0.000062		
Strontium/2	421.552		0.000010 / 0.000013		
Tin	189.989	0.000007 / 0.000031	0.000000 / 0.000013		
Titanium/1	334.941		0.000204 / 0.000204		
Titanium/2	337.280		0.000016 / 0.000083		
Tungsten/1	224.875		-------- / 0.000030	0.000273 / 0.001309	
Tungsten/2	239.709		0.000099 / 0.000047		

CT LABORATORIES
delivering more than data from your environmental analyses

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: CT Laboratories Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

ICP ID Number: TJA SDG No.: 100700

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	15.00	1000000	P
Antimony	15.00	10000	P
Arsenic	15.00	10000	P
Barium	15.00	10000	P
Beryllium	15.00	1000	P
Boron	15.00	1000	P
Cadmium	15.00	1000	P
Calcium	15.00	1000000	P
Chromium	15.00	100000	P
Cobalt	15.00	10000	P
Copper	15.00	100000	P
Iron	15.00	1000000	P
Lead	15.00	100000	P
Lithium	15.00	10000	P
Magnesium	15.00	1000000	P
Manganese	15.00	100000	P
Molybdenum	15.00	10000	P
Nickel	15.00	10000	P
Potassium	15.00	200000	P
Selenium	15.00	10000	P
Silicon	15.00	1000	P
Silver	15.00	100	P
Sodium	15.00	200000	P
Strontium	15.00	10000	P
Thallium	15.00	10000	P
Tin	15.00	10000	P
Titanium	15.00	1000	P
Tungsten	15.00	10000	P
Vanadium	15.00	10000	P
Zinc	15.00	100000	P

CT LABORATORIES
delivering more than data from your environmental analyses

13

PREPARATION LOG

Lab Name: CT Laboratories

Project: WESTON SOLUTIONS, INC.-CAMP DAWSON

Method: EPA 3050B

SDG No.: 100700

Preparation Batch #: 46442

Preparation Date/Time: 10/21/2013 / 07:30

Lab Sample #	QC Type	Sample Description	Matrix	**Weight (g for solid/soil) or Volume (mL for liquid/aqueous)**
381281	Normal Sample	CDW-KD-03-SS01-00	SOIL	2.04
381282	Normal Sample	CDW-KD-13-SS01-05	SOIL	2.02
381283	Normal Sample	CDW-KD-16-SS01-00	SOIL	2.01
381284	Normal Sample	CDW-KD-23-SS01-00	SOIL	2.01
381289	Normal Sample	CDW-KD-35-SS01-00	SOIL	2.08
381291	Normal Sample	CDW-KD-39-SS01-00	SOIL	1.98
381292	Normal Sample	CDW-KD-39-SS01-01	SOIL	1.99
381294	Normal Sample	CDW-KD-49-SS01-00	SOIL	1.97
381576	Method Blank		SOLID	2.10
381577	Lab Control Spike		SOLID	2.10
381578	Lab Duplicate	CDW-KD-13-SS01-05	SOIL	2.02
381579	Matrix Spike	CDW-KD-13-SS01-05	SOIL	2.02
381580	Matrix Spike Duplicate	CDW-KD-13-SS01-05	SOIL	2.02

CT LABORATORIES
delivering more than data from your environmental analyses

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PREPARATION LOG

Lab Name: CT Laboratories

Project: WESTON SOLUTIONS, INC.-CAMP DAWSON

Method: EPA 3010A

SDG No.: 100700

Preparation Batch #: 46498

Preparation Date/Time: 10/18/2013 / 11:00

Lab Sample #	QC Type	Sample Description	Matrix	**Weight (g for solid/soil) or Volume (mL for liquid/aqueous)**
381290	Normal Sample	CDW-KD-35-SS01-02	WATER	50.0
381293	Normal Sample	CDW-KD-AA-FB01-04	WATER	50.0
383735	Method Blank		LIQUID	50.0
383736	Lab Control Spike		LIQUID	50.0
383737	Lab Duplicate	CDW-KD-35-SS01-02	WATER	50.0
383738	Matrix Spike	CDW-KD-35-SS01-02	WATER	50.0
383739	Matrix Spike Duplicate	CDW-KD-35-SS01-02	WATER	50.0

CT LABORATORIES
delivering more than data from your environmental analyses

13

PREPARATION LOG

Lab Name: CT Laboratories

Project: WESTON SOLUTIONS, INC.-CAMP DAWSON

Method: EPA 3010A

SDG No.: 100700

Preparation Batch #: 46547

Preparation Date/Time: 10/22/2013 / 13:30

Lab Sample #	QC Type	Sample Description	Matrix	**Weight (g for solid/soil) or Volume (mL for liquid/aqueous)**
381285	Normal Sample	CDW-KD-23-SS01-00	TCLP	50.0
381286	Normal Sample	CDW-KD-07-SS01-00	TCLP	50.0
381287	Normal Sample	CDW-KD-12-SS02-00	TCLP	50.0
381288	Normal Sample	CDW-KD-23-SS02-00	TCLP	50.0
385765	Method Blank		LIQUID	50.0
385766	Lab Control Spike		LIQUID	50.0
385767	Lab Duplicate	CDW-KD-23-SS01-00	TCLP	50.0
385768	Matrix Spike	CDW-KD-23-SS01-00	TCLP	50.0
385771	Matrix Spike Duplicate	CDW-KD-23-SS01-00	TCLP	50.0

CT LABORATORIES
delivering more than data from your environmental analyses

14

ANALYSIS RUN LOG

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

Lab Code: CTL

SDG No.: 100700

Instrument ID Number: TJA

Method Number: P

Start & End Date: 10/21/2013 to 10/22/2013

Analytical Run #: 99511

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
385574	ICV	1.00	10/21 14:58													X																	
385575	ICV	1.00	10/21 15:01													X																	
385576	ICB	1.00	10/21 15:09													X																	
385578	ICSA	1.00	10/21 15:17	X							X				X	X	X																
385579	ICSAB	1.00	10/21 15:21	X							X				X	X	X																
385580	CCV1	1.00	10/21 23:50													X																	
385581	CCV2	1.00	10/21 23:54													X																	
385582	CCB	1.00	10/21 23:57													X																	
383736	LCSW	1.00	10/22 00:33													X																	
383735	MBW	1.00	10/22 00:36													X																	
385583	CCV1	1.00	10/22 00:40													X																	
385584	CCV2	1.00	10/22 00:44													X																	
385585	CCB	1.00	10/22 00:48													X																	
381290	Initial	1.00	10/22 00:51													X																	
385586	L	5	10/22 00:55													X																	
383737	DUP	1.00	10/22 00:59													X																	
383738	MSW	1.00	10/22 01:03													X																	
383739	MSDW	1.00	10/22 01:07													X																	
385587	PDSW	1.00	10/22 01:10													X																	
381293	Initial	1.00	10/22 01:14													X																	
385588	CCV1	1.00	10/22 01:30													X																	
385589	CCV2	1.00	10/22 01:34													X																	
385590	CCB	1.00	10/22 01:37													X																	

CT LABORATORIES
delivering more than data from your environmental analyses

14

ANALYSIS RUN LOG

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

Lab Code: CTL

SDG No.: 100700

Instrument ID Number: TJA

Method Number: P

Start & End Date: 10/21/2013 to 10/22/2013

Analytical Run #: 99556

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
385684	ICV	1.00	10/21 14:58													X																	
385685	ICV	1.00	10/21 15:01													X																	
385686	ICB	1.00	10/21 15:09													X																	
385688	ICSA	1.00	10/21 15:17	X							X				X	X	X																
385689	ICSAB	1.00	10/21 15:21	X							X				X	X	X																
385690	CCV1	1.00	10/22 03:12													X																	
385691	CCV2	1.00	10/22 03:16													X																	
385692	CCB	1.00	10/22 03:19													X																	
381577	LCSS	1.00	10/22 03:27													X																	
381576	MBS	1.00	10/22 03:30													X																	
381281	Initial	1.00	10/22 03:34													X																	
381282	Initial	1.00	10/22 03:38													X																	
385693	L	5	10/22 03:42													X																	
381578	DUP	1.00	10/22 03:46													X																	
381579	MSS	1.00	10/22 03:49													X																	
381580	MSDS	1.00	10/22 03:53													X																	
385694	PDSS	1.00	10/22 03:57													X																	
385695	CCV1	1.00	10/22 04:01													X																	
385696	CCV2	1.00	10/22 04:05													X																	
385697	CCB	1.00	10/22 04:09													X																	
381283	Initial	1.00	10/22 04:13													X																	
381284	Initial	1.00	10/22 04:16													X																	
381289	Initial	1.00	10/22 04:20													X																	
381291	Initial	1.00	10/22 04:24													X																	
381292	Initial	1.00	10/22 04:28													X																	
381294	Initial	1.00	10/22 04:32													X																	
385698	CCV1	1.00	10/22 04:51													X																	
385699	CCV2	1.00	10/22 04:55													X																	

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

Lab Code: CTL

SDG No.: 100700

Instrument ID Number: TJA

Method Number: P

Start & End Date: 10/21/2013 to 10/22/2013

Analytical Run #: 99556

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
385700	CCB	1.00	10/22 04:58													X																	

CT LABORATORIES
delivering more than data from your environmental analyses

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ANALYSIS RUN LOG

Lab Name: CT Laboratories

Contract: WESTON SOLUTIONS, INC.-CAMP DAWSON

Lab Code: CTL

SDG No.: 100700

Instrument ID Number: TJA

Method Number: P

Start & End Date: 10/23/2013 to 10/23/2013

Analytical Run #: 99645

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
388855	ICV	1.00	10/23 16:08													X																	
388856	ICV	1.00	10/23 16:12													X																	
388857	ICB	1.00	10/23 16:20													X																	
388859	ICSA	1.00	10/23 16:27	X							X				X	X	X																
388860	ICSAB	1.00	10/23 16:31	X							X				X	X	X																
388861	CCV1	1.00	10/23 21:38													X																	
388862	CCV2	1.00	10/23 21:42													X																	
388863	CCB	1.00	10/23 21:45													X																	
385766	LCSW	1.00	10/23 21:57													X																	
385765	MBW	1.00	10/23 22:01													X																	
381285	Initial	1.00	10/23 22:05													X																	
388864	L	5	10/23 22:09													X																	
385767	DUP	1.00	10/23 22:13													X																	
385768	MSW	1.00	10/23 22:17													X																	
385771	MSDW	1.00	10/23 22:20													X																	
388865	PDSW	1.00	10/23 22:24													X																	
388866	CCV1	1.00	10/23 22:28													X																	
388867	CCV2	1.00	10/23 22:32													X																	
388868	CCB	1.00	10/23 22:36													X																	
381286	Initial	1.00	10/23 22:40													X																	
381287	Initial	1.00	10/23 22:43													X																	
381288	Initial	1.00	10/23 22:47													X																	
388869	CCV1	1.00	10/23 23:20													X																	
388871	CCV2	1.00	10/23 23:24													X																	
388872	CCB	1.00	10/23 23:27													X																	

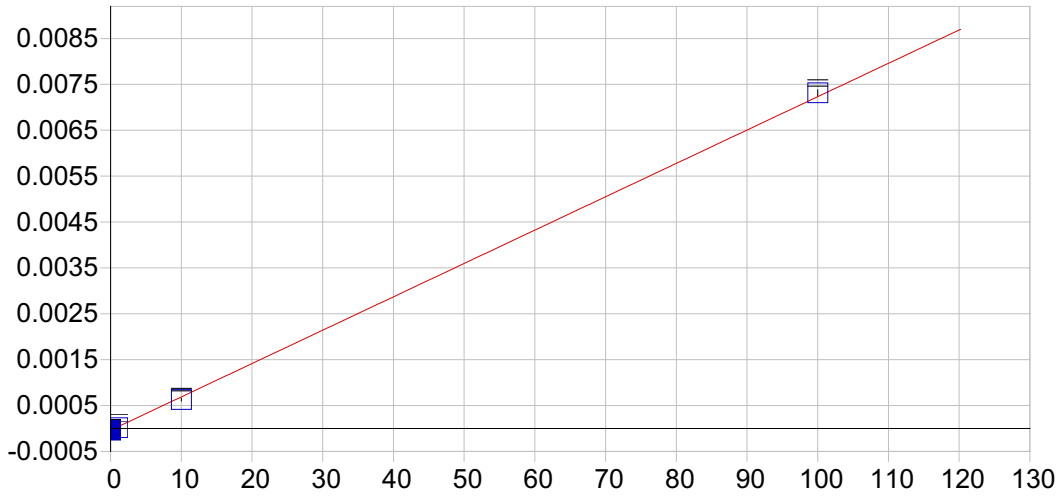
METALS
RAW DATA
DOCUMENTS

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
Ag 328.068 {103}	10/22/2013 08:52:15	10/21/2013 14:30:05	Linear	1/Conc	-0.000039	0.000073	0.000000	1.000000	0.999265	0.000001	0.751270	2.504232
Al 309.271 {109}	10/22/2013 08:52:15	10/21/2013 14:45:41	Curvilin	1/Conc	-0.001709	0.000004	0.000000	1.000000	0.999995	0.000009	20.787664	69.292214
Al 396.152 { 85}	10/22/2013 08:52:15	10/21/2013 14:54:07	Curvilin	1/Conc	-0.000112	0.000009	0.000000	1.000000	0.999985	0.000302	10.228443	34.094809
Al 167.079 {502}	10/22/2013 08:52:15	10/21/2013 14:33:25	Linear	None	0.000038	0.000004	0.000000	1.000000	0.999992	0.000009	0.852024	2.840079
As 193.759 {474}	10/22/2013 08:52:15	10/21/2013 14:33:25	Linear	None	0.000008	0.000002	0.000000	1.000000	0.999991	0.000005	2.933852	9.779507
As 189.042 {479}	10/22/2013 08:52:15	10/21/2013 14:41:44	Curvilin	1/Conc	0.000002	0.000001	0.000000	1.000000	0.999998	0.000000	7.438489	24.794964
Ba 455.403 { 74}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	None	0.001022	0.000506	0.000000	1.000000	1.000000	0.000757	0.231781	0.772605
Ba 493.409 { 68}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	None	-0.004579	0.000457	0.000000	1.000000	1.000000	0.001638	0.546403	1.821344
Be 313.042 {108}	10/22/2013 08:52:15	10/21/2013 14:30:05	Linear	None	0.000055	0.000244	0.000000	1.000000	0.999990	0.000047	0.127027	0.423424
Be 234.861 {144}	10/22/2013 08:52:15	10/21/2013 14:33:25	Linear	1/Conc	0.000003	0.000019	0.000000	1.000000	0.999996	0.000001	0.750740	2.502466
Ca 317.933 {106}	10/22/2013 08:52:15	10/21/2013 14:54:07	Curvilin	1/Conc	0.010269	0.000009	-0.000000	1.000000	0.999406	0.000440	3.650608	12.168695
Ca 393.366 { 86}	10/22/2013 08:52:15	10/21/2013 14:33:25	Linear	None	0.008493	0.000898	0.000000	1.000000	0.999922	0.006538	0.074711	0.249037
Ca 396.847 { 85}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	None	0.003536	0.000485	0.000000	1.000000	0.999999	0.003422	0.111332	0.371106
Cd 226.502 {449}	10/22/2013 08:52:15	10/21/2013 14:33:25	Linear	None	0.000080	0.000085	0.000000	1.000000	0.999989	0.000153	0.149923	0.499742
Cd 228.802 {447}	10/22/2013 08:52:15	10/21/2013 14:33:25	Linear	1/Conc	0.000033	0.000138	0.000000	1.000000	0.999958	0.000023	0.120519	0.401731
Co 228.616 {447}	10/22/2013 08:52:15	10/21/2013 14:33:25	Linear	1/Conc	0.000002	0.000051	0.000000	1.000000	0.999889	0.000002	0.266504	0.888347
Co 238.892 {141}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	0.000039	0.000004	0.000000	1.000000	0.999953	0.000008	5.005645	16.685484
Cr 267.716 {126}	10/22/2013 08:52:15	10/21/2013 14:33:25	Linear	None	0.000027	0.000088	0.000000	1.000000	0.999998	0.000077	0.605987	2.019955
Cr 283.563 {119}	10/22/2013 08:52:15	10/21/2013 14:41:44	Linear	None	-0.001031	0.000017	0.000000	1.000000	0.999997	0.002034	1.926353	6.421177
Cu 224.700 {450}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	-0.000012	0.000016	0.000000	1.000000	0.999897	0.000002	0.797937	2.659790
Cu 324.754 {104}	10/22/2013 08:52:15	10/21/2013 14:41:44	Curvilin	1/Conc	0.001277	0.000023	0.000000	1.000000	0.999997	0.000010	2.335076	7.783585
Cu 327.396 {103}	10/22/2013 08:52:15	10/21/2013 14:41:44	Linear	1/Conc	-0.000136	0.000002	0.000000	1.000000	0.998669	0.000006	29.679525	98.931748
Fe 234.349 {144}	10/22/2013 08:52:15	10/21/2013 14:54:07	Full Fit	1/Conc	0.000013	0.000001	0.000000	1.010000	0.999993	0.000007	11.453850	38.179500
Fe 239.562 {141}	10/22/2013 08:52:15	10/21/2013 14:45:41	Linear	None	0.000139	0.000002	0.000000	1.000000	0.999998	0.000243	6.063066	20.210219
Fe 259.940 {130}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	None	0.000033	0.000008	0.000000	1.000000	0.999991	0.000145	3.097974	10.326580
Mg 202.582 {466}	10/22/2013 08:52:15	10/21/2013 14:54:07	Full Fit	1/Conc	-0.000058	0.000008	-0.000000	0.940000	0.999974	0.000189	1.225627	4.085422
Mg 279.079 {121}	10/22/2013 08:52:15	10/21/2013 14:54:07	Linear	1/Conc	0.000004	0.000000	0.000000	1.000000	0.999914	0.000025	39.302296	131.007653
Mg 280.270 {120}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	None	0.000457	0.000110	0.000000	1.000000	1.000000	0.000255	0.156215	0.520717
Mn 257.610 {131}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	None	0.000049	0.000038	0.000000	1.000000	0.999996	0.000041	0.449832	1.499439
Mn 259.373 {130}	10/22/2013 08:52:15	10/21/2013 14:41:44	Linear	None	0.007360	0.000049	0.000000	1.000000	0.999991	0.012640	0.585772	1.952574
Mo 203.844 {465}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	1/Conc	0.000014	0.000017	0.000000	1.000000	0.999790	0.000000	0.600447	2.001490
Mo 202.030 {467}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	None	0.000023	0.000014	0.000000	1.000000	0.999998	0.000012	0.500512	1.668373
Mo 204.598 {465}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	None	0.000032	0.000007	0.000000	1.000000	1.000000	0.000036	1.009798	3.365994
Ni 221.647 {452}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	None	0.000442	0.000032	0.000000	1.000000	0.999994	0.000673	0.489158	1.630528
Ni 231.604 {445}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	1/Conc	-0.000054	0.000037	0.000000	1.000000	0.999681	0.000003	0.569068	1.896894
Pb 216.999 {455}	10/22/2013 08:52:15	10/21/2013 14:41:44	Curvilin	1/Conc	0.000012	0.000003	0.000000	1.000000	0.999986	0.000003	4.125054	13.750178
Pb 220.353 {453}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	1/Conc	0.000007	0.000008	0.000000	1.000000	0.999903	0.000000	1.631813	5.439375
Sb 206.833 {463}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	-0.000002	0.000004	0.000000	1.000000	0.999952	0.000001	2.223921	7.413070
Sb 217.581 {455}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	1/Conc	-0.000020	0.000004	0.000000	1.000000	0.998961	0.000001	3.018554	10.061847
Se 196.090 {172}	10/22/2013 08:52:15	10/21/2013 14:37:36	Curvilin	1/Conc	0.000020	0.000001	-0.000000	1.000000	0.999684	0.000000	12.417225	41.390749
Se 196.090 {472}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	None	0.000028	0.000002	0.000000	1.000000	0.999991	0.000047	3.286910	10.956368
Se 206.279 {463}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	-0.000007	0.000000	0.000000	1.000000	0.999950	0.000001	27.364770	91.215900
Tl 276.787 {122}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	None	0.000002	0.000000	0.000000	1.000000	0.999968	0.000016	122.436933	408.123110
Tl 190.856 {477}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	1/Conc	-0.000003	0.000002	0.000000	1.000000	0.999220	0.000000	2.741669	9.138896

	Element, Wavelength and Order	Status	Reslope		QC Norm	
			Slope	Y-int	Slope factor	Offset
	Ag 328.068 {103}	OK.	1.000000	0.000000	1	0
	Al 309.271 {109}	OK.	1.000000	0.000000	1	0
	Al 396.152 { 85}	OK.	1.000000	0.000000	1	0
	Al 167.079 {502}	OK.	1.000000	0.000000	1	0
	As 193.759 {474}	OK.	1.000000	0.000000	1	0
	As 189.042 {479}	OK.	1.000000	0.000000	1	0
	Ba 455.403 { 74}	OK.	1.000000	0.000000	1	0
	Ba 493.409 { 68}	OK.	1.000000	0.000000	1	0
	Be 313.042 {108}	OK.	1.000000	0.000000	1	0
	Be 234.861 {144}	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	OK.	1.000000	0.000000	1	0
	Ca 393.366 { 86}	OK.	1.000000	0.000000	1	0
	Ca 396.847 { 85}	OK.	1.000000	0.000000	1	0
	Cd 226.502 {449}	OK.	1.000000	0.000000	1	0
	Cd 228.802 {447}	OK.	1.000000	0.000000	1	0
	Co 228.616 {447}	OK.	1.000000	0.000000	1	0
	Co 238.892 {141}	OK.	1.000000	0.000000	1	0
	Cr 267.716 {126}	OK.	1.000000	0.000000	1	0
	Cr 283.563 {119}	OK.	1.000000	0.000000	1	0
	Cu 224.700 {450}	OK.	1.000000	0.000000	1	0
	Cu 324.754 {104}	Warnin	1.000000	0.000000	1	0
	Cu 327.396 {103}	OK.	1.000000	0.000000	1	0
	Fe 234.349 {144}	OK.	1.000000	0.000000	1	0
	Fe 239.562 {141}	OK.	1.000000	0.000000	1	0
	Fe 259.940 {130}	OK.	1.000000	0.000000	1	0
	Mg 202.582 {466}	OK.	1.000000	0.000000	1	0
	Mg 279.079 {121}	OK.	1.000000	0.000000	1	0
	Mg 280.270 {120}	OK.	1.000000	0.000000	1	0
	Mn 257.610 {131}	OK.	1.000000	0.000000	1	0
	Mn 259.373 {130}	OK.	1.000000	0.000000	1	0
	Mo 203.844 {465}	OK.	1.000000	0.000000	1	0
	Mo 202.030 {467}	OK.	1.000000	0.000000	1	0
	Mo 204.598 {465}	OK.	1.000000	0.000000	1	0
	Ni 221.647 {452}	OK.	1.000000	0.000000	1	0
	Ni 231.604 {445}	OK.	1.000000	0.000000	1	0
	Pb 216.999 {455}	OK.	1.000000	0.000000	1	0
	Pb 220.353 {453}	OK.	1.000000	0.000000	1	0
	Sb 206.833 {463}	OK.	1.000000	0.000000	1	0
	Sb 217.581 {455}	OK.	1.000000	0.000000	1	0
	Se 196.090 {172}	OK.	1.000000	0.000000	1	0
	Se 196.090 {472}	OK.	1.000000	0.000000	1	0
	Se 206.279 {463}	OK.	1.000000	0.000000	1	0
	Tl 276.787 {122}	OK.	1.000000	0.000000	1	0
	Tl 190.856 {477}	OK.	1.000000	0.000000	1	0

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
	V 290.882 {116}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	-0.000045	0.000010	0.000000	1.000000	0.999952	0.000017	4.896160	16.320534
	V 292.402 {115}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	1/Conc	0.000014	0.000124	0.000000	1.000000	0.999892	0.000008	0.711690	2.372299
	Zn 206.200 {463}	10/22/2013 08:52:15	10/21/2013 14:41:44	Full Fit	None	0.000101	0.000049	-0.000000	0.990000	1.000000	0.000000	0.202327	0.674423
	Zn 213.856 {458}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	1/Conc	0.000032	0.000037	0.000000	1.000000	0.999776	0.000003	0.208341	0.694470
	Y 360.073 { 94}*	10/22/2013 08:52:15	10/21/2013 13:59:44	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
	Na 330.298 {102}	10/22/2013 08:52:15	10/21/2013 14:41:44	Linear	1/Conc	-0.000002	0.000000	0.000000	1.000000	1.000000	0.000000	461.592582	1538.64194
	Si 251.611 {134}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	None	0.000130	0.000000	0.000000	1.000000	1.000000	0.000000	406.783135	1355.94378
	Ti 334.941 {101}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	0.000040	0.000029	0.000000	1.000000	0.999902	0.000002	1.376795	4.589317
	Ti 337.280 {100}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	-0.000102	0.000036	0.000000	1.000000	0.999884	0.000002	1.572133	5.240442
	Sr 407.771 { 83}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	-0.003630	0.000773	0.000000	1.000000	0.999983	0.000018	0.104756	0.349186
	Sr 421.552 { 80}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	-0.000524	0.000716	0.000000	1.000000	0.999981	0.000017	0.127499	0.424995
	Sn 189.989 {477}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	0.000001	0.000007	0.000000	1.000000	0.999888	0.000001	0.894786	2.982619
	Sn 283.999 {119}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	-0.000019	0.000001	0.000000	1.000000	0.999979	0.000000	40.197105	133.990350
	B 249.773 {135}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	0.000005	0.000008	0.000000	1.000000	0.999895	0.000002	2.652021	8.840071
	Li 670.784 { 50}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	0.000083	0.000162	0.000000	1.000000	0.999915	0.000029	1.045958	3.486526

	Element, Wavelength and Order	Status	Reslope		QC Norm	
			Slope	Y-int	Slope factor	Offset
	V 290.882 {116}	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	OK.	1.000000	0.000000	1	0
	Zn 206.200 {463}	OK.	1.000000	0.000000	1	0
	Zn 213.856 {458}	OK.	1.000000	0.000000	1	0
	Y 360.073 { 94}*	Warnin	1.000000	0.000000	1	0
	Na 330.298 {102}	OK.	1.000000	0.000000	1	0
	Si 251.611 {134}	OK.	1.000000	0.000000	1	0
	Ti 334.941 {101}	OK.	1.000000	0.000000	1	0
	Ti 337.280 {100}	OK.	1.000000	0.000000	1	0
	Sr 407.771 { 83}	OK.	1.000000	0.000000	1	0
	Sr 421.552 { 80}	OK.	1.000000	0.000000	1	0
	Sn 189.989 {477}	OK.	1.000000	0.000000	1	0
	Sn 283.999 {119}	OK.	1.000000	0.000000	1	0
	B 249.773 {135}	OK.	1.000000	0.000000	1	0
	Li 670.784 { 50}	OK.	1.000000	0.000000	1	0

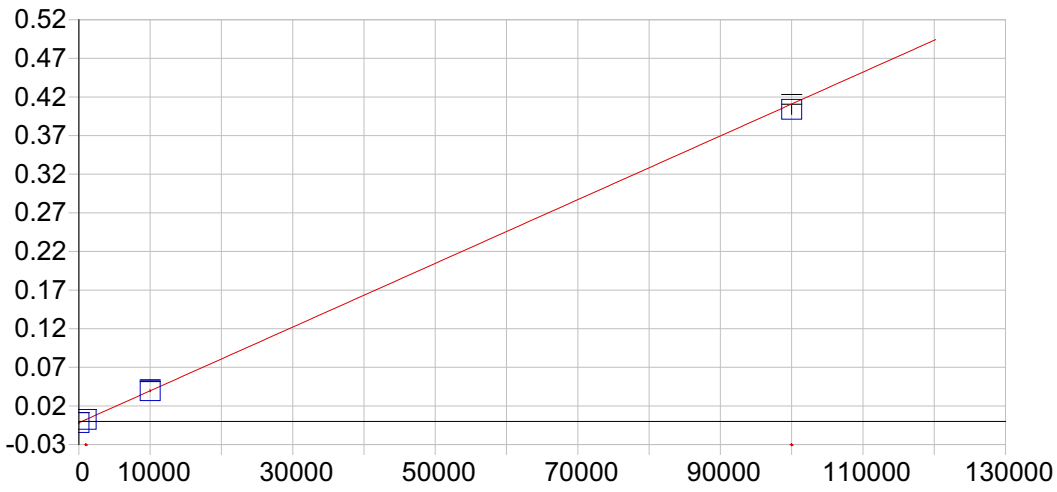


Ag 328.068 {103}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000039	Re-Slope:	1.000000
A1 (Gain):	0.000073	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999265	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.751270		
Predicted MQL:	2.504232		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00036	.000	.000	-.00004	.000	1
CalibStd=10	10.000	9.1717	-.828	-8.28	.00063	.000	1
CalibStd=1	1.0000	.71321	-.287	-28.7	.00001	.000	1
CalibStd=100	100.00	101.12	1.12	1.12	.00731	.000	1

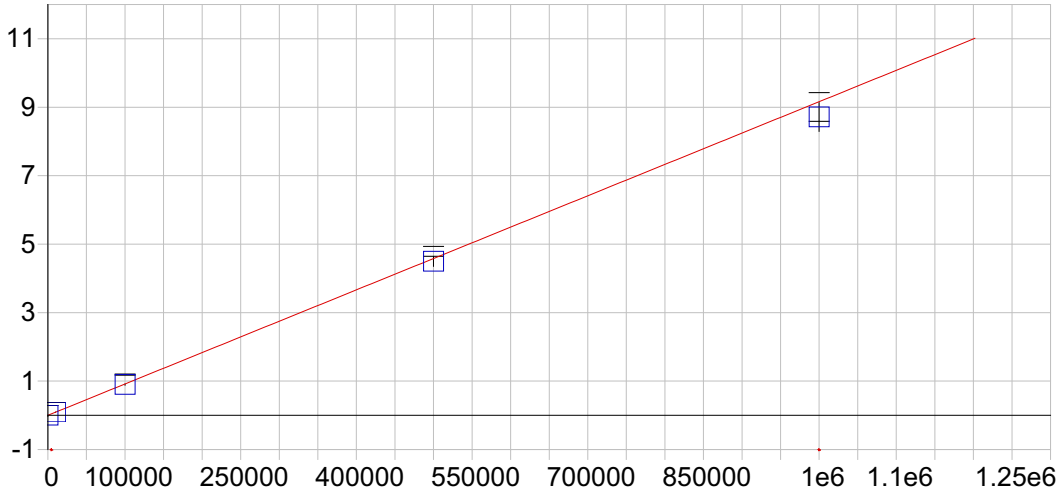


Al 309.271 {109}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	-0.001709	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	20.787664		
Predicted MQL:	69.292214		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.02815	.028	.000	-.00171	.000	1
CalibStd=100	10000.	10018.	17.8	.178	.03963	.001	1
CalibStd=100	1000.0	968.24	-31.8	-3.18	.00229	.000	1
CalibStd-100	100000.	98303.	-1700.	-1.70	.40389	.006	1

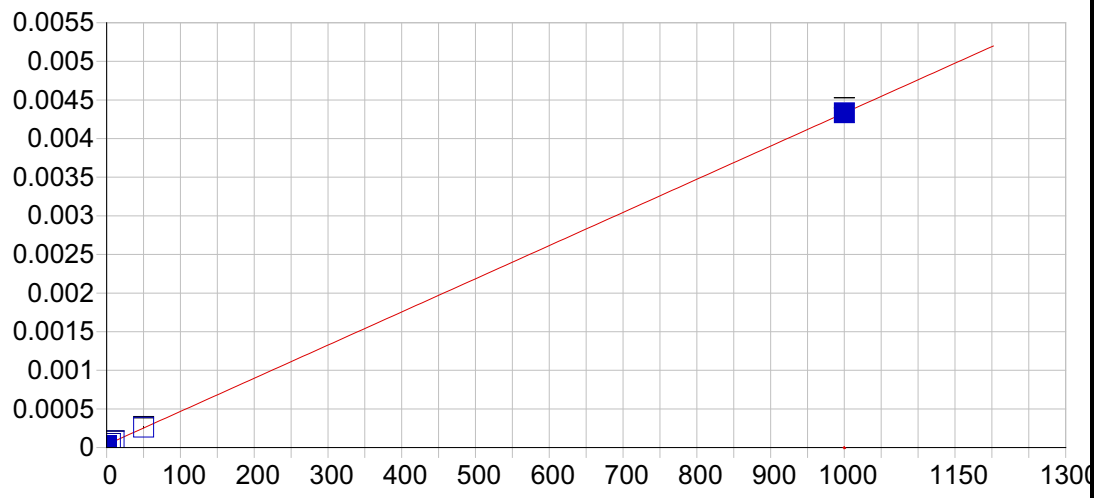


Al 396.152 { 85}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	-0.000112	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000302		
Predicted MDL:	10.228443		
Predicted MQL:	34.094809		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.06790	.068	.000	-.00011	.000	1
CalibStd-100	1000000.	951160.	-48800.	-4.88	8.7138	.421	1
CalibStd=500	500000.	490910.	-9090.	-1.82	4.4973	.143	1
CalibStd=100	10000.	10045.	45.1	.451	.09192	.002	1
CalibStd-100	100000.	97909.	-2090.	-2.09	.89687	.015	1

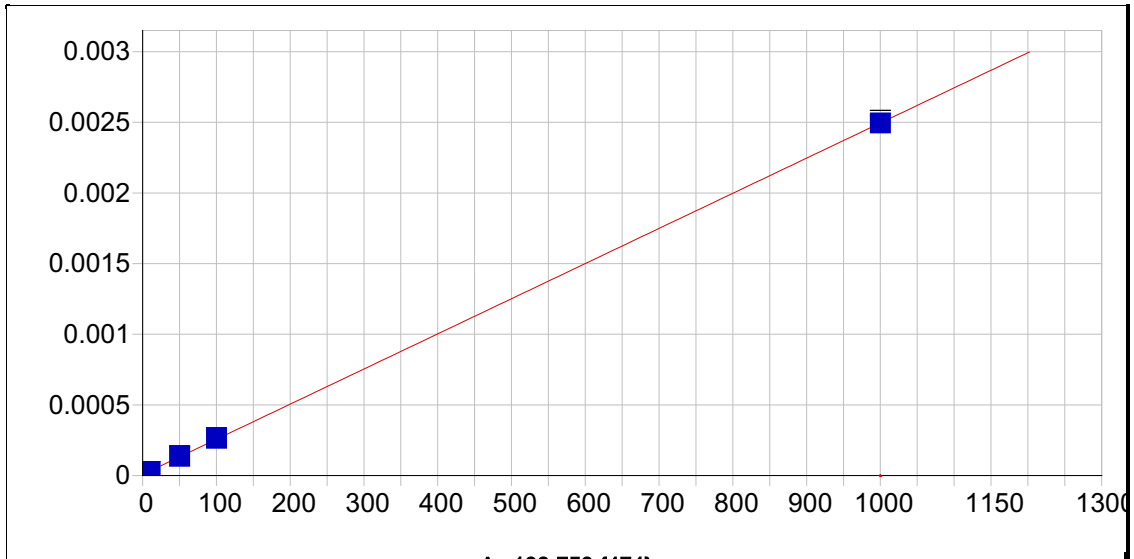


Al 167.079 {502}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000038	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	0.852024		
Predicted MQL:	2.840079		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-2.2800	-2.28	.000	.00003	.000	1
CalibStd=100	1000.0	999.88	-.123	-.012	.00433	.000	1
CalibStd=10	10.000	10.801	.801	8.01	.00008	.000	1
CalibStd=5	5.0000	4.2224	-.778	-15.6	.00006	.000	1
CalibStd=50	50.000	52.379	2.38	4.76	.00026	.000	1

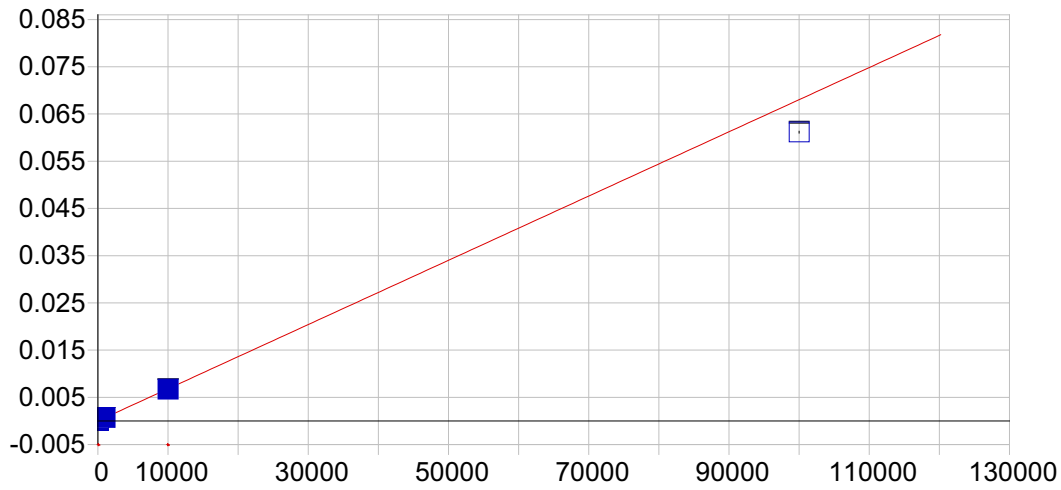


As 193.759 {474}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000008	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	2.933852		
Predicted MQL:	9.779507		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.2922	-1.29	.000	.00000	.000	1
CalibStd=100	1000.0	999.71	-.288	-.029	.00249	.000	1
CalibStd=50	50.000	51.108	1.11	2.22	.00013	.000	1
CalibStd=10	10.000	7.9423	-2.06	-20.6	.00003	.000	1
CalibStd=100	100.00	102.53	2.53	2.53	.00026	.000	1

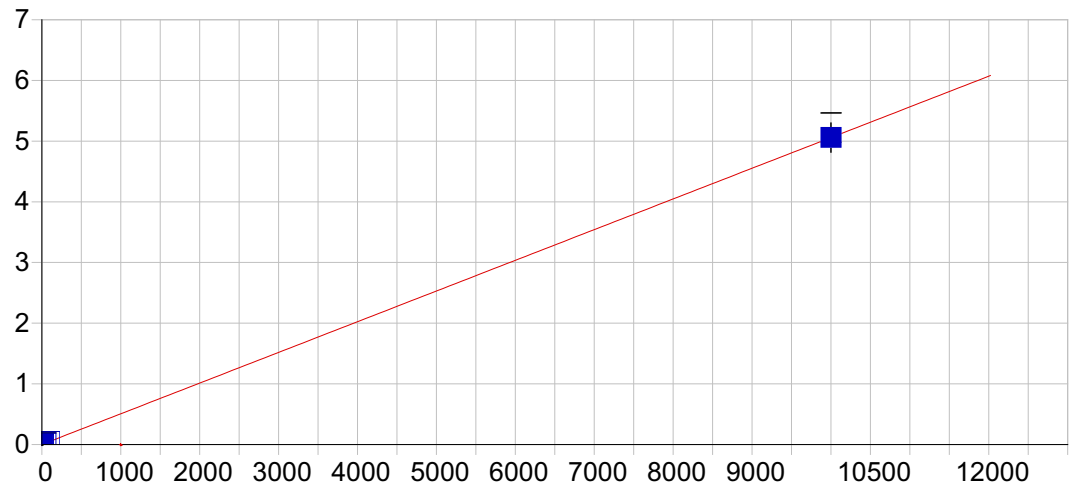


As 189.042 {479}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	7.438489		
Predicted MQL:	24.794964		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00559	-.006	.000	.00000	.000	1
CalibStd=100	1000.0	1012.6	12.6	1.26	.00069	.000	1
CalibStd=100	10000.	9879.1	-121.	-1.21	.00672	.000	1
CalibStd=100	100.00	104.42	4.42	4.42	.00007	.000	1
CalibStd-100	100000.	89898.	-10100.	-10.1	.06116	.000	1

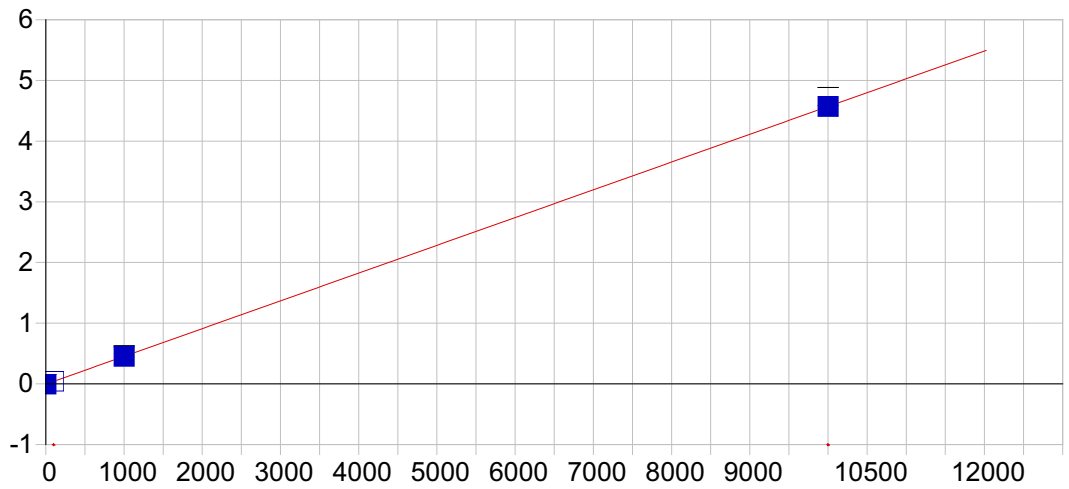


Ba 455.403 { 74}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.001022	Re-Slope:	1.000000
A1 (Gain):	0.000506	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000757		
Predicted MDL:	0.231781		
Predicted MQL:	0.772605		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.5682	-1.57	.000	.00023	.000	1
CalibStd=50	50.000	50.459	.459	.918	.02654	.000	1
CalibStd=10	10.000	9.2474	-.753	-7.53	.00570	.000	1
CalibStd=20	20.000	20.619	.619	3.10	.01145	.000	1
CalibStd=100	100.00	102.47	2.47	2.47	.05285	.001	1
CalibStd=5	5.0000	3.7949	-1.21	-24.1	.00294	.000	1
CalibStd=100	10000.	10000.0	-.027	.000	5.0585	.241	1

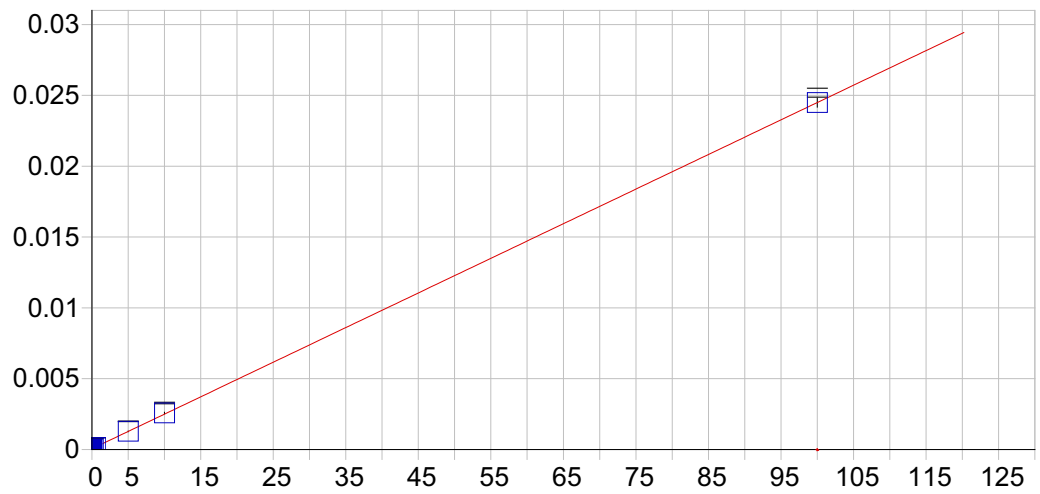


Ba 493.409 { 68}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.004579	Re-Slope:	1.000000
A1 (Gain):	0.000457	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.001638		
Predicted MDL:	0.546403		
Predicted MQL:	1.821344		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.54978	.550	.000	-.00433	.000	1
CalibStd=100	1000.0	996.02	-3.98	-.398	.45107	.011	1
CalibStd=100	10000.	10000.	.367	.004	4.5703	.148	1
CalibStd=100	100.00	103.06	3.06	3.06	.04257	.001	1

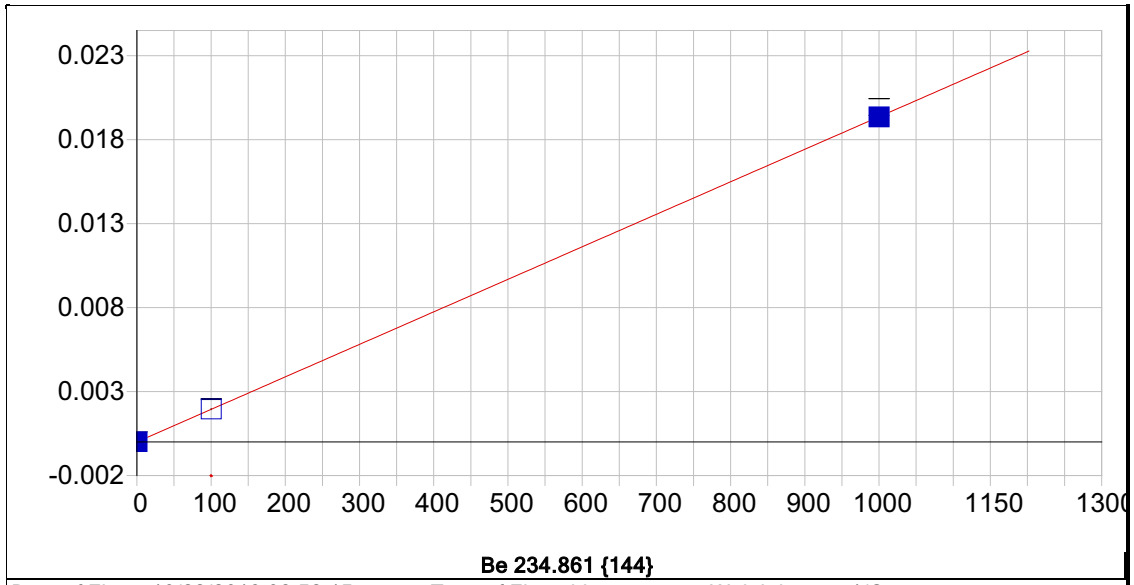


Be 313.042 {108}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000055	Re-Slope:	1.000000
A1 (Gain):	0.000244	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999990	Status:	OK.
Std Error of Est:	0.000047		
Predicted MDL:	0.127027		
Predicted MQL:	0.423424		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.09349	-.093	.000	.00003	.000	1
CalibStd=10	10.000	10.327	.327	3.27	.00258	.000	1
CalibStd=100	100.00	99.967	-.033	-.033	.02449	.000	1
CalibStd=0.5	.50000	.32550	-.175	-34.9	.00014	.000	1
CalibStd=5	5.0000	5.0254	.025	.508	.00128	.000	1
CalibStd=0.2	.25000	.19880	-.051	-20.5	.00010	.000	1

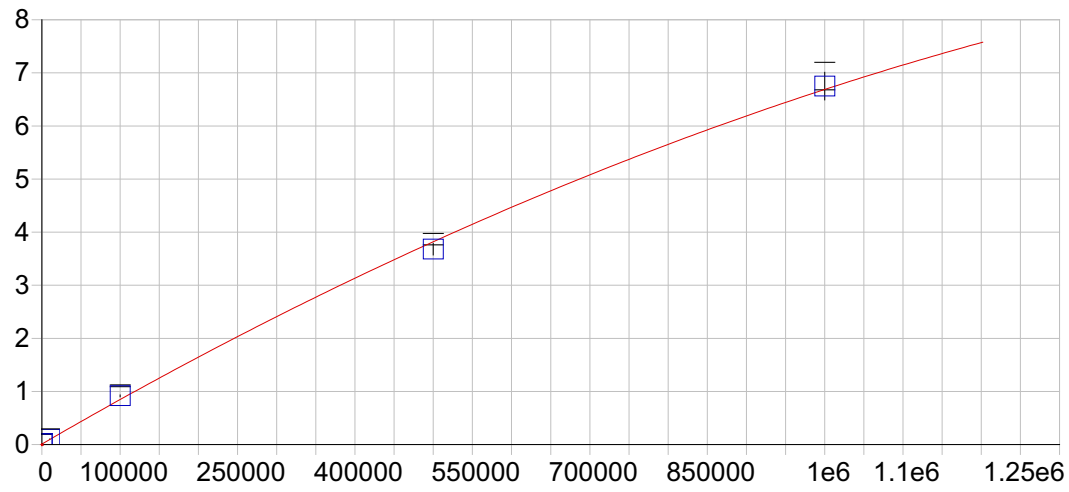


Be 234.861 {144}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000019	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.750740		
Predicted MQL:	2.502466		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00085	-.001	.000	.00000	.000	1
CalibStd=100	1000.0	999.06	-.940	-.094	.01934	.001	1
CalibStd=100	100.00	100.94	.940	.940	.00196	.000	1

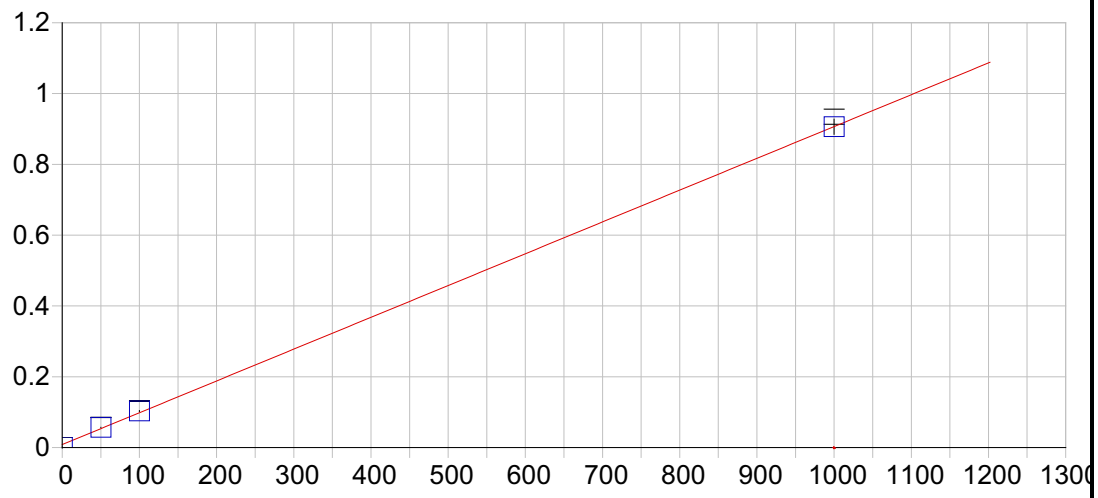


Ca 317.933 {106}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.010269	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	0.999406	Status:	OK.
Std Error of Est:	0.000440		
Predicted MDL:	3.650608		
Predicted MQL:	12.168695		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.17611	-.176	.000	.01027	.000	1
CalibStd=100	10000.	10719.	719.	7.19	.10180	.003	1
CalibStd=500	500000.	479170.	-20800.	-4.17	3.6795	.109	1
CalibStd-100	1000000.	1013200.	13200.	1.32	6.7497	.260	1
CalibStd=100	1000.0	1047.5	47.5	4.75	.01923	.000	1
CalibStd-100	100000.	108640.	8640.	8.64	.91797	.017	1

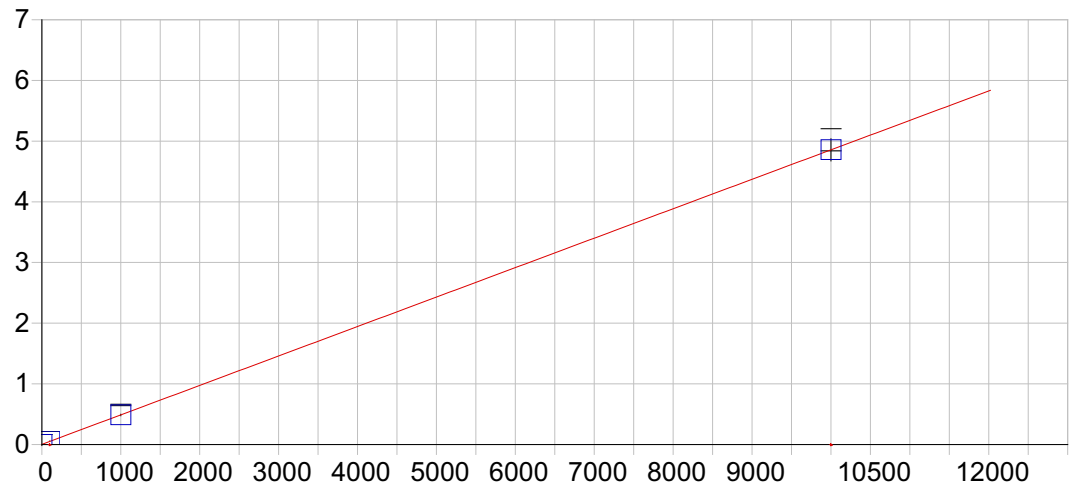


Ca 393.366 { 86}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.008493	Re-Slope:	1.000000
A1 (Gain):	0.000898	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999922	Status:	OK.
Std Error of Est:	0.006538		
Predicted MDL:	0.074711		
Predicted MQL:	0.249037		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-8.1075	-8.11	.000	.00121	.000	1
CalibStd=50	50.000	53.702	3.70	7.40	.05674	.001	1
CalibStd=100	1000.0	999.30	-.695	-.070	.90623	.021	1
CalibStd=100	100.00	105.10	5.10	5.10	.10291	.001	1

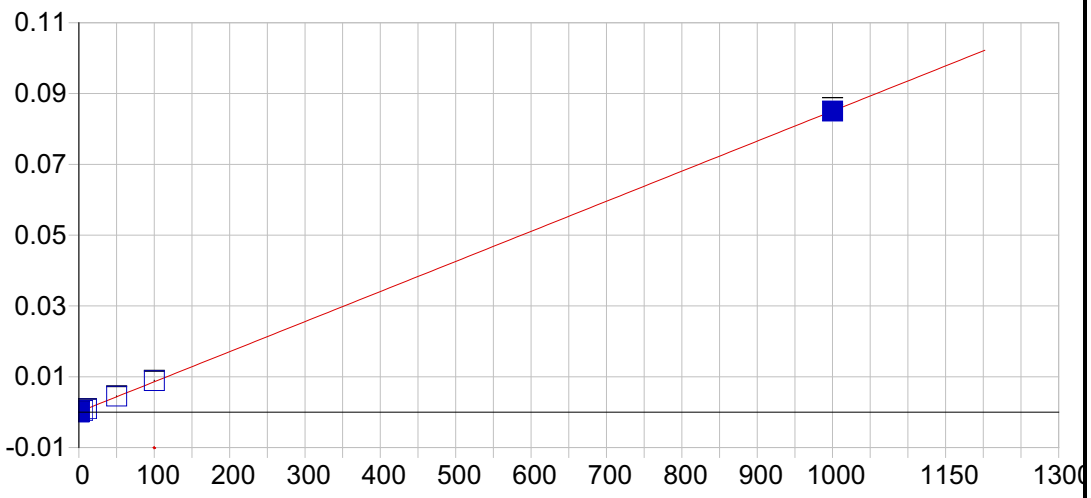


Ca 396.847 { 85}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.003536	Re-Slope:	1.000000
A1 (Gain):	0.000485	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.003422		
Predicted MDL:	0.111332		
Predicted MQL:	0.371106		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-6.0570	-6.06	.000	.00060	.000	1
CalibStd=100	10000.	10000.	.099	.001	4.8565	.183	1
CalibStd=100	100.00	107.72	7.72	7.72	.05581	.001	1
CalibStd=100	1000.0	998.24	-1.76	-.176	.48797	.012	1

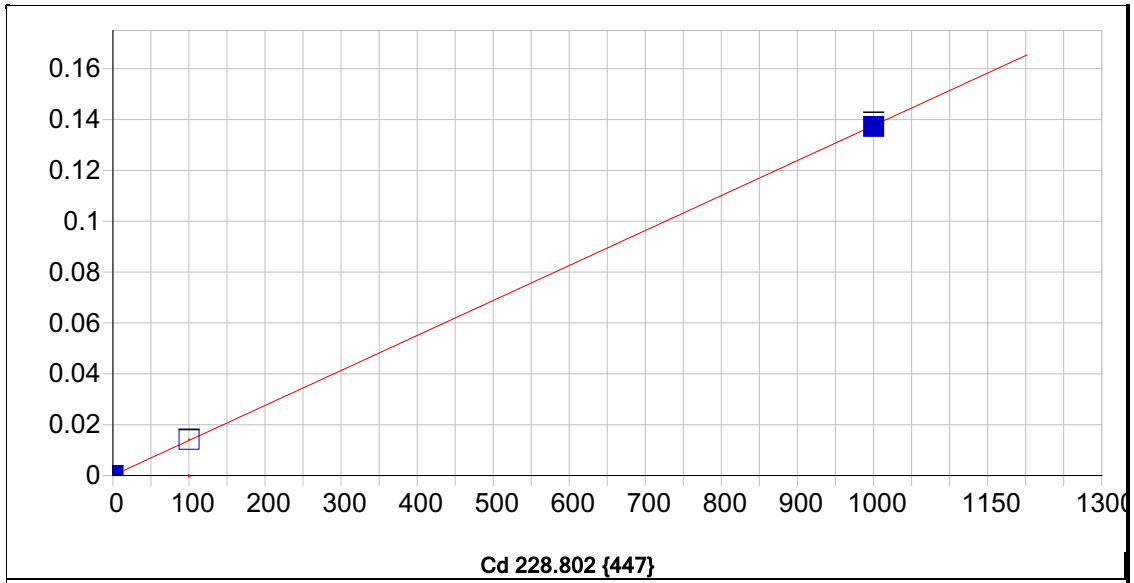


Cd 226.502 {449}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000080	Re-Slope:	1.000000
A1 (Gain):	0.000085	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000153		
Predicted MDL:	0.149923		
Predicted MQL:	0.499742		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.1667	-1.17	.000	-.00002	.000	1
CalibStd=50	50.000	51.906	1.91	3.81	.00449	.000	1
CalibStd=1	1.0000	-.23021	-1.23	-123.	.00006	.000	1
CalibStd=0.5	.50000	-.59525	-1.10	-219.	.00003	.000	1
CalibStd=5	5.0000	4.1414	-.859	-17.2	.00043	.000	1
CalibStd=100	100.00	103.25	3.25	3.25	.00885	.000	1
CalibStd=10	10.000	9.6057	-.394	-3.94	.00090	.000	1
CalibStd=100	1000.0	999.59	-.410	-.041	.08504	.001	1

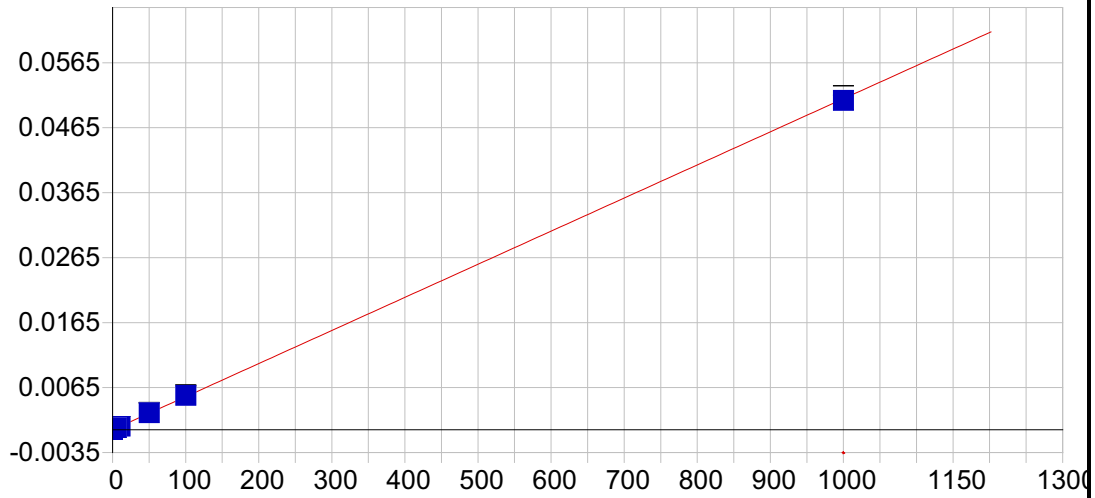


Cd 228.802 {447}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000033	Re-Slope:	1.000000
A1 (Gain):	0.000138	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999958	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.120519		
Predicted MQL:	0.401731		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00261	-.003	.000	.00003	.000	1
CalibStd=100	1000.0	997.10	-2.90	-.290	.13720	.002	1
CalibStd=100	100.00	102.90	2.90	2.90	.01419	.000	1

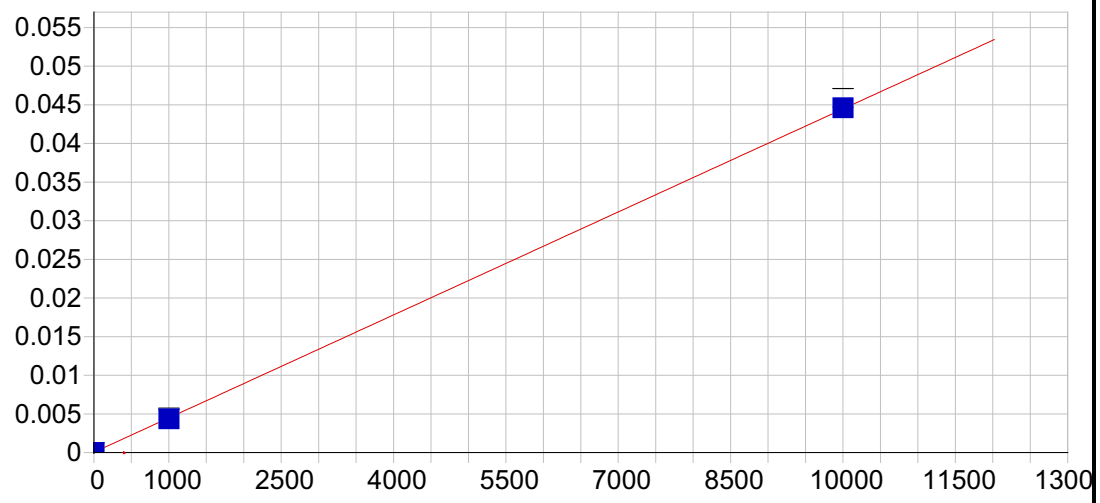


Co 228.616 {447}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000051	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999889	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.266504		
Predicted MQL:	0.888347		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00095	-.001	.000	.00000	.000	1
CalibStd=50	50.000	51.224	1.22	2.45	.00261	.000	1
CalibStd=10	10.000	10.736	.736	7.36	.00055	.000	1
CalibStd=5	5.0000	5.3155	.316	6.31	.00027	.000	1
CalibStd=100	100.00	103.49	3.49	3.49	.00528	.000	1
CalibStd=100	1000.0	994.23	-5.77	-.577	.05072	.001	1

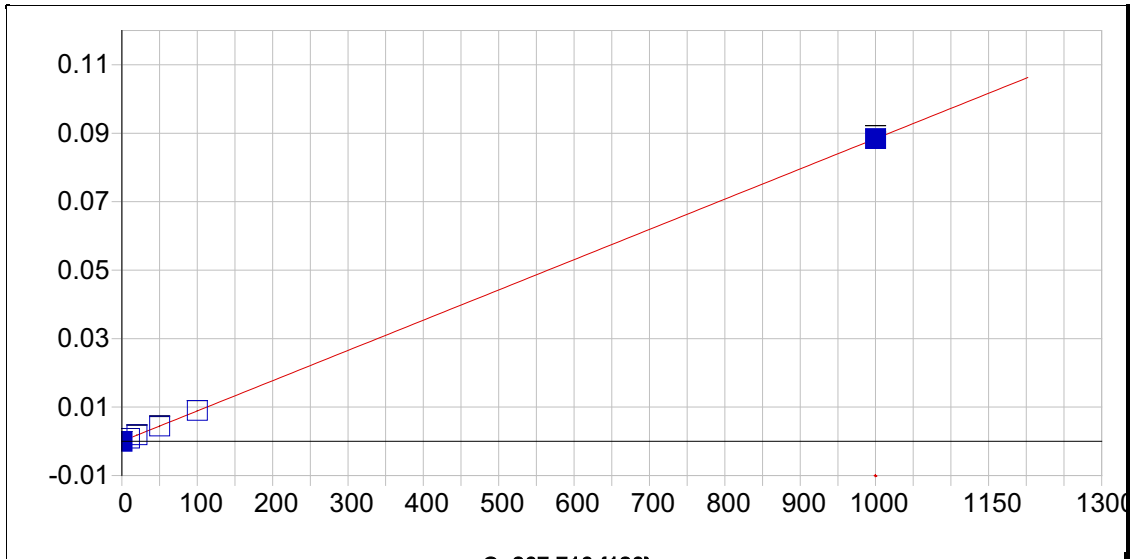


Co 238.892 {141}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000039	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999953	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	5.005645		
Predicted MQL:	16.685484		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.02747	.027	.000	.00004	.000	1
CalibStd=100	1000.0	969.48	-30.5	-3.05	.00435	.000	1
CalibStd=100	10000.	10031.	30.5	.305	.04461	.001	1

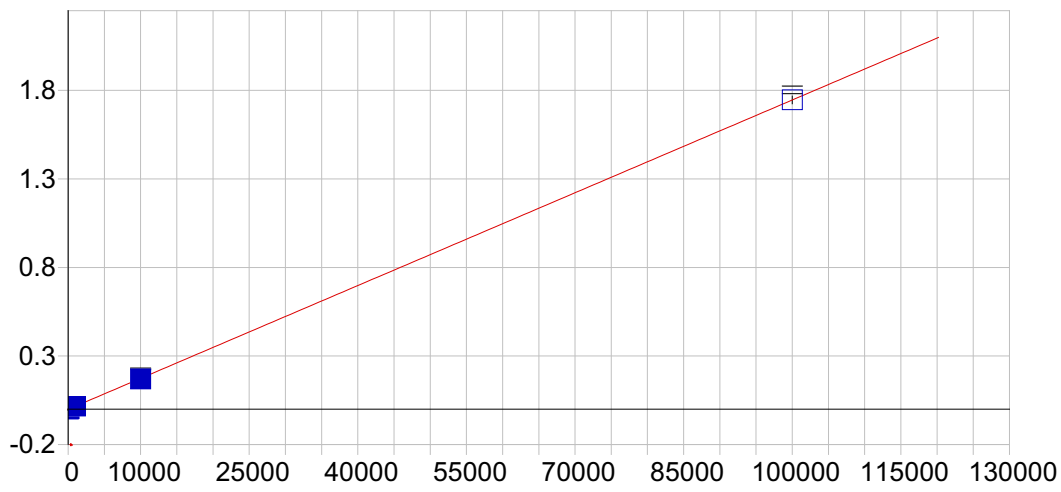


Cr 267.716 {126}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000027	Re-Slope:	1.000000
A1 (Gain):	0.000088	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000077		
Predicted MDL:	0.605987		
Predicted MQL:	2.019955		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.0018	-1.00	.000	-.00006	.000	1
CalibStd=10	10.000	9.7212	-.279	-2.79	.00089	.000	1
CalibStd=50	50.000	49.594	-.406	-.811	.00441	.000	1
CalibStd=100	1000.0	999.89	-.108	-.011	.08840	.001	1
CalibStd=20	20.000	20.599	.599	3.00	.00185	.000	1
CalibStd=100	100.00	101.20	1.20	1.20	.00897	.000	1

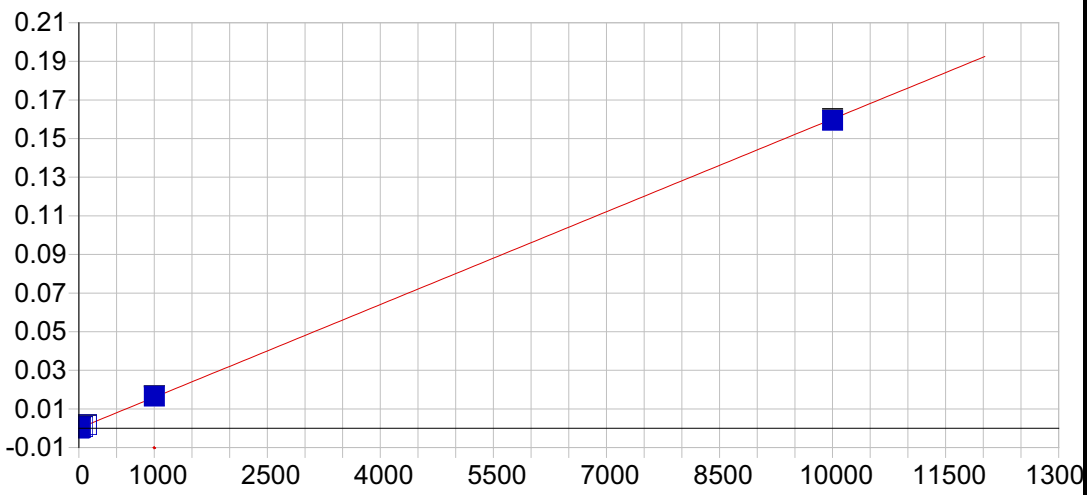


Cr 283.563 {119}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.001031	Re-Slope:	1.000000
A1 (Gain):	0.000017	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.002034		
Predicted MDL:	1.926353		
Predicted MQL:	6.421177		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	61.497	61.5	.000	.00004	.000	1
CalibStd=50	50.000	110.26	60.3	121.	.00089	.000	1
CalibStd=100	100.00	157.29	57.3	57.3	.00172	.000	1
CalibStd=100	1000.0	1007.8	7.81	.781	.01659	.000	1
CalibStd=100	10000.	9792.5	-207.	-2.07	.17019	.004	1
CalibStd-100	100000.	100020.	20.6	.021	1.7461	.021	1

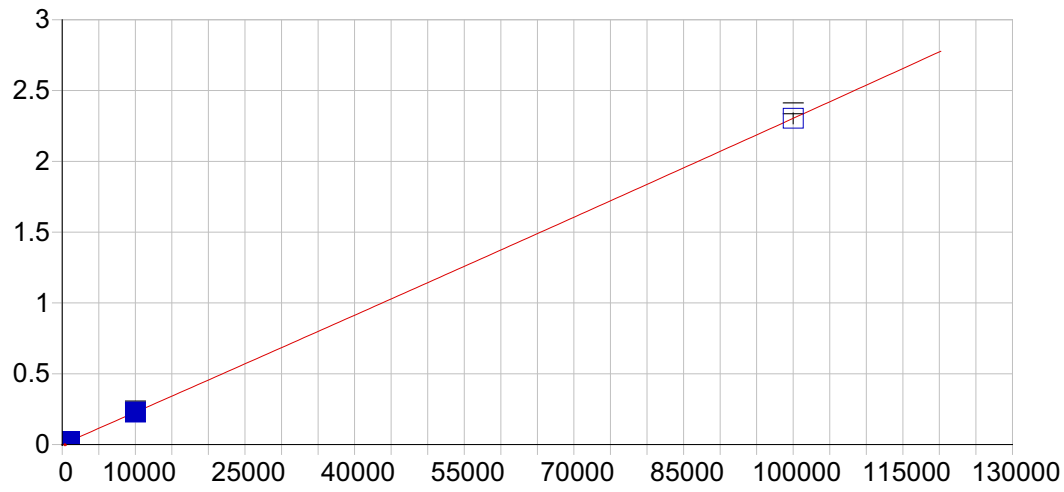


Cu 224.700 {450}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000012	Re-Slope:	1.000000
A1 (Gain):	0.000016	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999897	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.797937		
Predicted MQL:	2.659790		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00233	-.002	.000	-.00001	.000	1
CalibStd=100	1000.0	1033.1	33.1	3.31	.01654	.000	1
CalibStd=50	50.000	52.175	2.17	4.35	.00082	.000	1
CalibStd=100	100.00	106.35	6.35	6.35	.00169	.000	1
CalibStd=10	10.000	11.263	1.26	12.6	.00017	.000	1
CalibStd=100	10000.	9954.2	-45.8	-.458	.15944	.001	1
CalibStd=5	5.0000	5.4013	.401	8.03	.00007	.000	1
CalibStd=20	20.000	22.462	2.46	12.3	.00035	.000	1

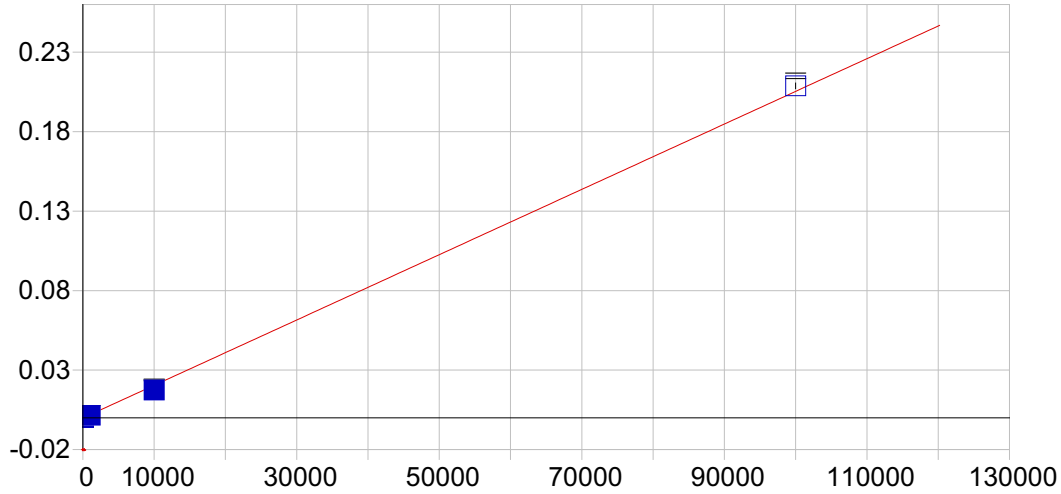


Cu 324.754 {104}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.001277	Re-Slope:	1.000000
A1 (Gain):	0.000023	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	Warning Positive Curvature
Std Error of Est:	0.000010		
Predicted MDL:	2.335076		
Predicted MQL:	7.783585		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00244	.002	.000	.00128	.000	1
CalibStd=100	1000.0	973.52	-26.5	-2.65	.02333	.001	1
CalibStd=100	100.00	99.918	-.082	-.082	.00354	.000	1
CalibStd=100	10000.	10029.	29.1	.291	.22881	.007	1
CalibStd-100	100000.	99997.	-2.57	-.003	2.3036	.038	1

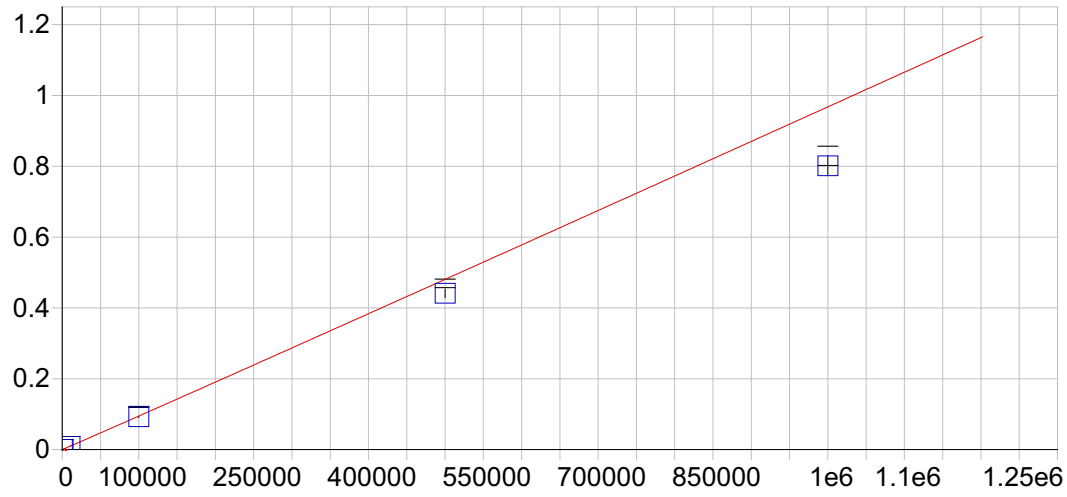


Cu 327.396 {103}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000136	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998669	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	29.679525		
Predicted MQL:	98.931748		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.03721	.037	.000	-.00014	.000	1
CalibStd=20	20.000	1.6729	-18.3	-91.6	-.00013	.000	1
CalibStd=50	50.000	25.121	-24.9	-49.8	-.00008	.000	1
CalibStd=100	100.00	84.798	-15.2	-15.2	.00004	.000	1
CalibStd=100	1000.0	833.21	-167.	-16.7	.00158	.000	1
CalibStd=100	10000.	8553.6	-1450.	-14.5	.01744	.000	1
CalibStd-100	100000.	101670.	1670.	1.67	.20879	.002	1

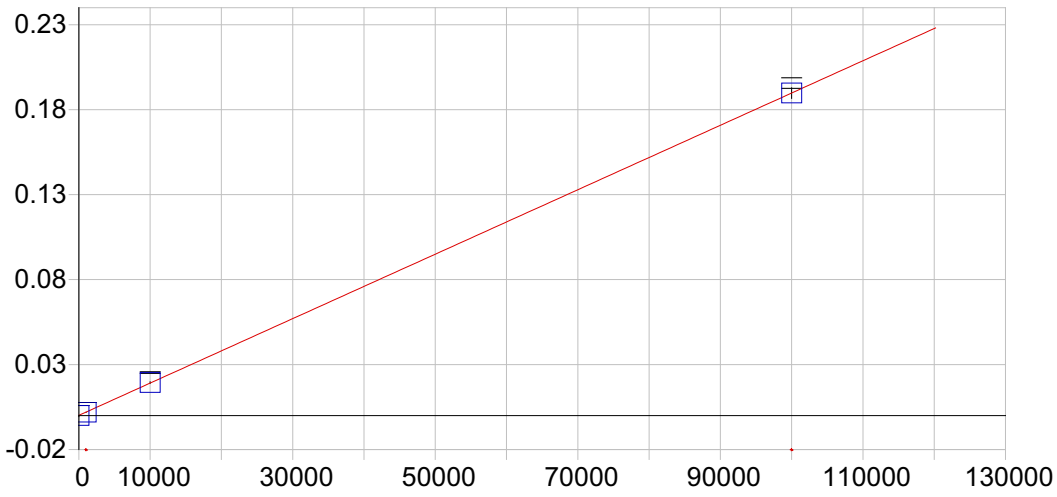


Fe 234.349 {144}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000013	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.010000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	11.453850		
Predicted MQL:	38.179500		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1
CalibStd=100	10000.	10137.	137.	1.37	.00938	.000	1
CalibStd=500	500000.	459160.	-40800.	-8.17	.44093	.012	1
CalibStd-100	1000000.	829290.	-171000.	-17.1	.80108	.027	1
CalibStd=100	1000.0	1023.8	23.8	2.38	.00094	.000	1
CalibStd-100	100000.	97361.	-2640.	-2.64	.09207	.001	1

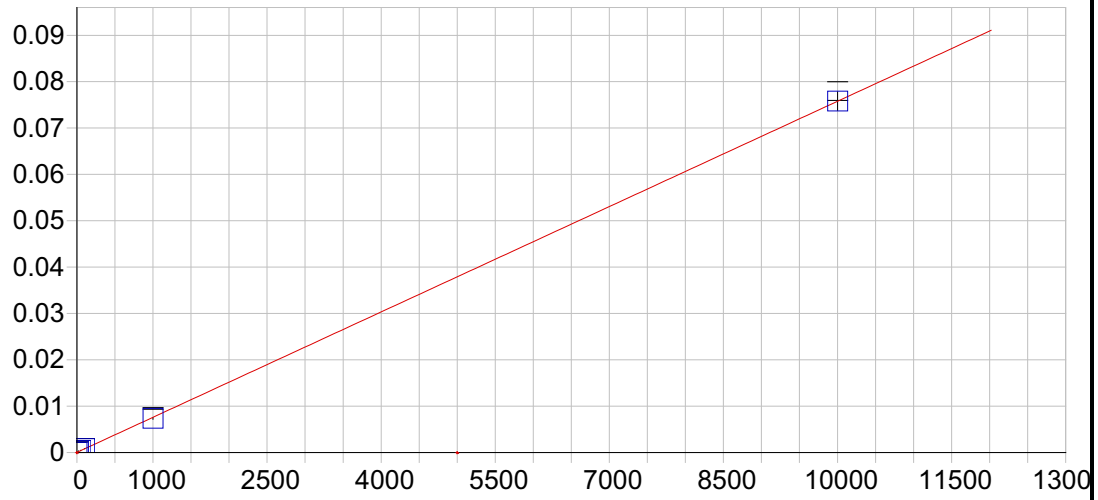


Fe 239.562 {141}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000139	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000243		
Predicted MDL:	6.063066		
Predicted MQL:	20.210219		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-71.267	-71.3	.000	.00000	.000	1
CalibStd=100	1000.0	933.88	-66.1	-6.61	.00191	.000	1
CalibStd=100	10000.	10152.	152.	1.52	.01939	.000	1
CalibStd-100	100000.	99985.	-14.5	-.015	.18977	.003	1

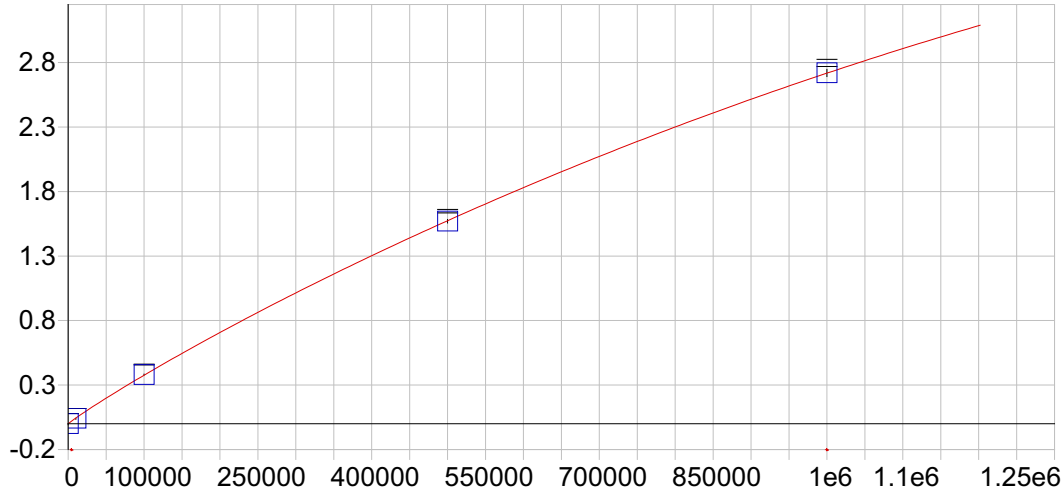


Fe 259.940 {130}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000033	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000145		
Predicted MDL:	3.097974		
Predicted MQL:	10.326580		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	1.3376	1.34	.000	.00004	.000	1
CalibStd=100	1000.0	967.33	-32.7	-3.27	.00736	.000	1
CalibStd=50	50.000	54.454	4.45	8.91	.00045	.000	1
CalibStd=100	100.00	105.23	5.23	5.23	.00083	.000	1
CalibStd=20	20.000	38.486	18.5	92.4	.00032	.000	1
CalibStd=100	10000.	10003.	3.15	.032	.07580	.002	1

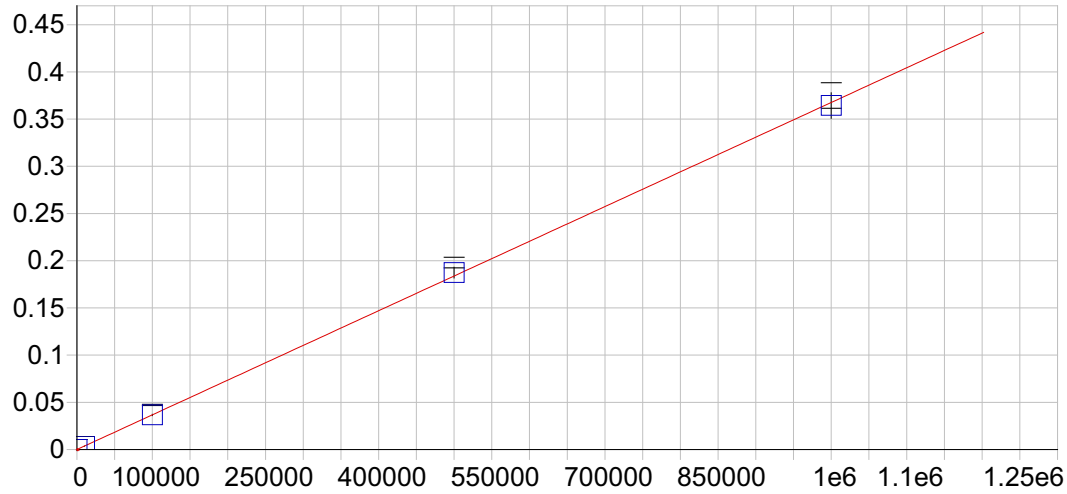


Mg 202.582 {466}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	-0.000058	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.940000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.000189		
Predicted MDL:	1.225627		
Predicted MQL:	4.085422		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.20545	.205	.000	-.00006	.000	1
CalibStd=500	500000.	498470.	-1530.	-.306	1.5700	.013	1
CalibStd=100	10000.	9482.4	-518.	-5.18	.04184	.000	1
CalibStd-100	1000000.	1000800.	820.	.082	2.7195	.028	1
CalibStd-100	100000.	101370.	1370.	1.37	.38083	.003	1

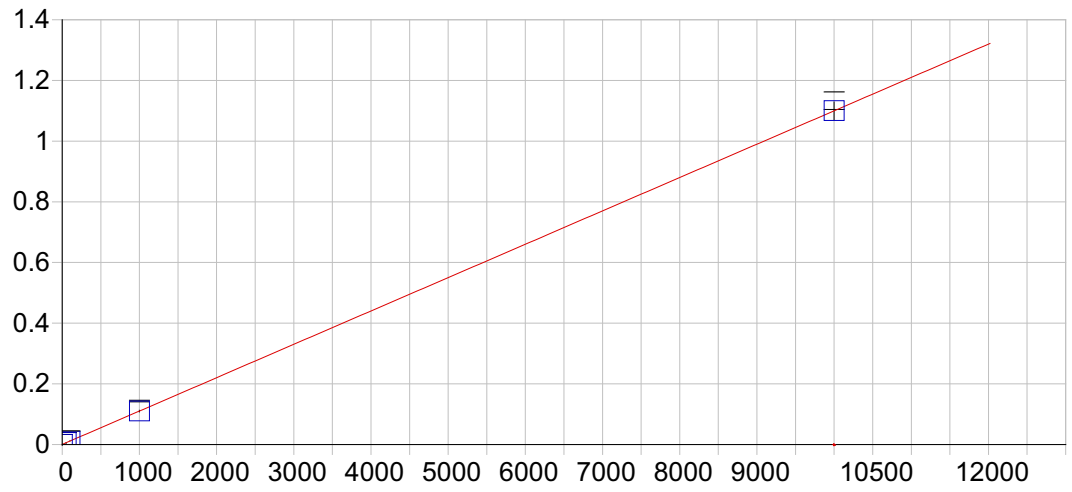


Mg 279.079 {121}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999914	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	39.302296		
Predicted MQL:	131.007653		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.18422	.184	.000	.00000	.000	1
CalibStd=500	500000.	509680.	9680.	1.94	.18736	.006	1
CalibStd=100	10000.	9758.6	-241.	-2.41	.00359	.000	1
CalibStd-100	1000000.	991030.	-8970.	-.897	.36430	.013	1
CalibStd-100	100000.	99532.	-468.	-.468	.03659	.001	1

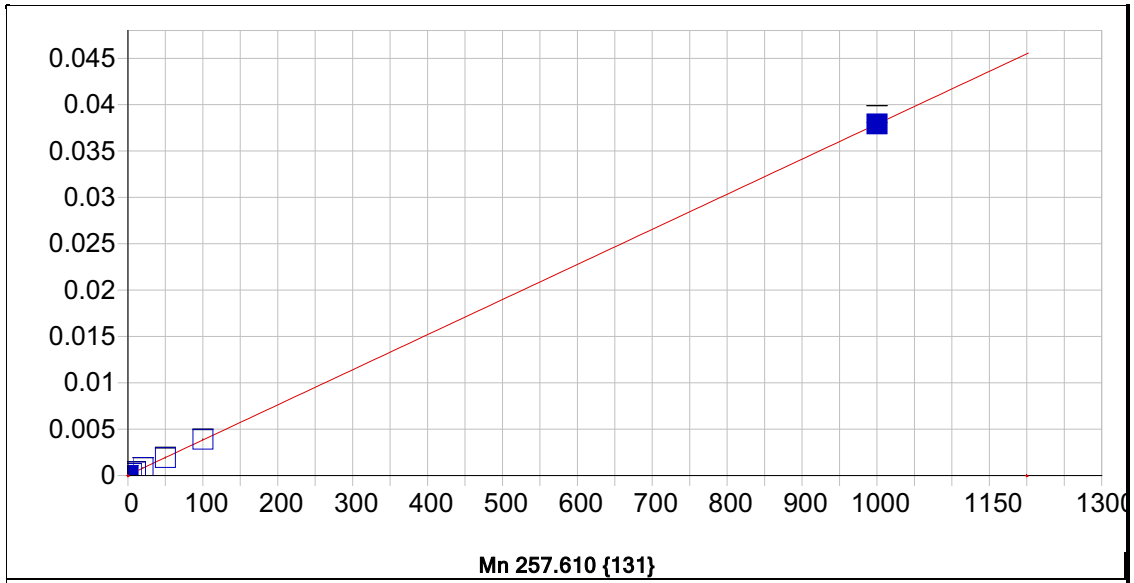


Mg 280.270 {120}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000457	Re-Slope:	1.000000
A1 (Gain):	0.000110	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000255		
Predicted MDL:	0.156215		
Predicted MQL:	0.520717		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.4173	-1.42	.000	.00030	.000	1
CalibStd=100	1000.0	997.41	-2.59	-.259	.11012	.003	1
CalibStd=100	10000.	10000.	.229	.002	1.1000	.029	1
CalibStd=100	100.00	102.23	2.23	2.23	.01170	.000	1
CalibStd=50	50.000	51.551	1.55	3.10	.00612	.000	1

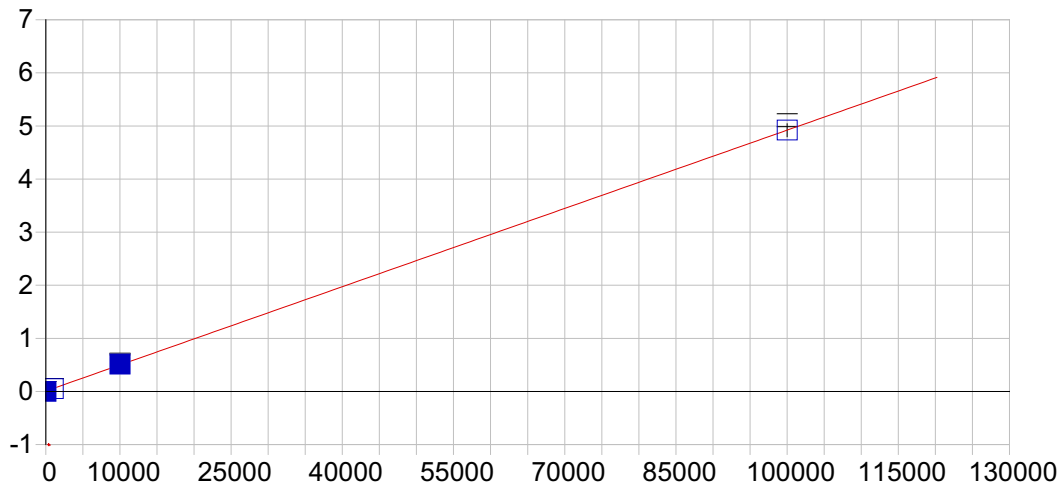


Mn 257.610 {131}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000049	Re-Slope:	1.000000
A1 (Gain):	0.000038	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	0.449832		
Predicted MQL:	1.499439		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.0083	-1.01	.000	.00001	.000	1
CalibStd=10	10.000	9.3542	-.646	-6.46	.00040	.000	1
CalibStd=50	50.000	49.758	-.242	-.485	.00193	.000	1
CalibStd=20	20.000	21.173	1.17	5.87	.00085	.000	1
CalibStd=100	100.00	101.59	1.59	1.59	.00390	.000	1
CalibStd=5	5.0000	4.2930	-.707	-14.1	.00021	.000	1
CalibStd=100	1000.0	999.84	-.160	-.016	.03791	.001	1

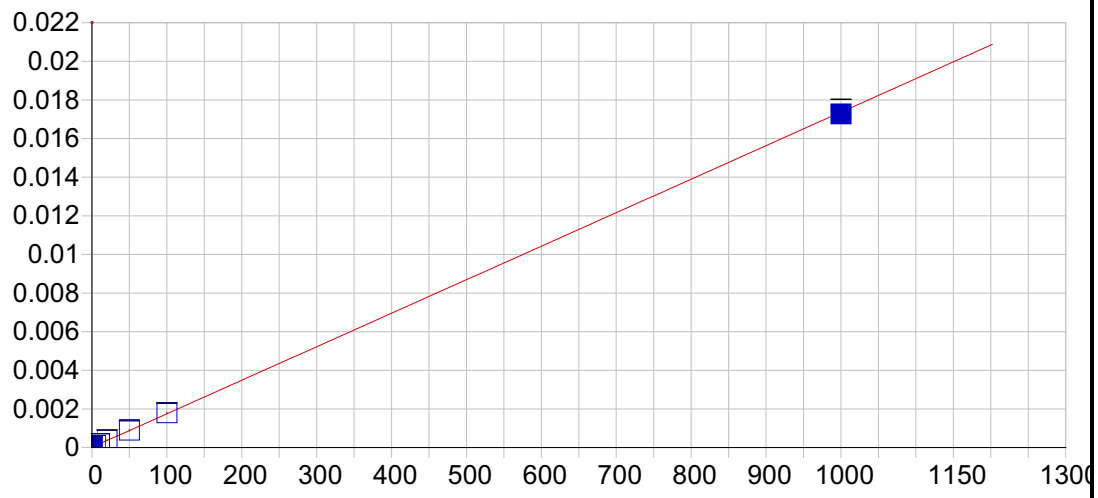


Mn 259.373 {130}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.007360	Re-Slope:	1.000000
A1 (Gain):	0.000049	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.012640		
Predicted MDL:	0.585772		
Predicted MQL:	1.952574		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-149.87	-150.	.000	.00000	.000	1
CalibStd=100	10000.	10305.	305.	3.05	.51443	.015	1
CalibStd-100	100000.	99971.	-29.3	-.029	4.9193	.123	1
CalibStd=100	1000.0	873.95	-126.	-12.6	.05030	.001	1

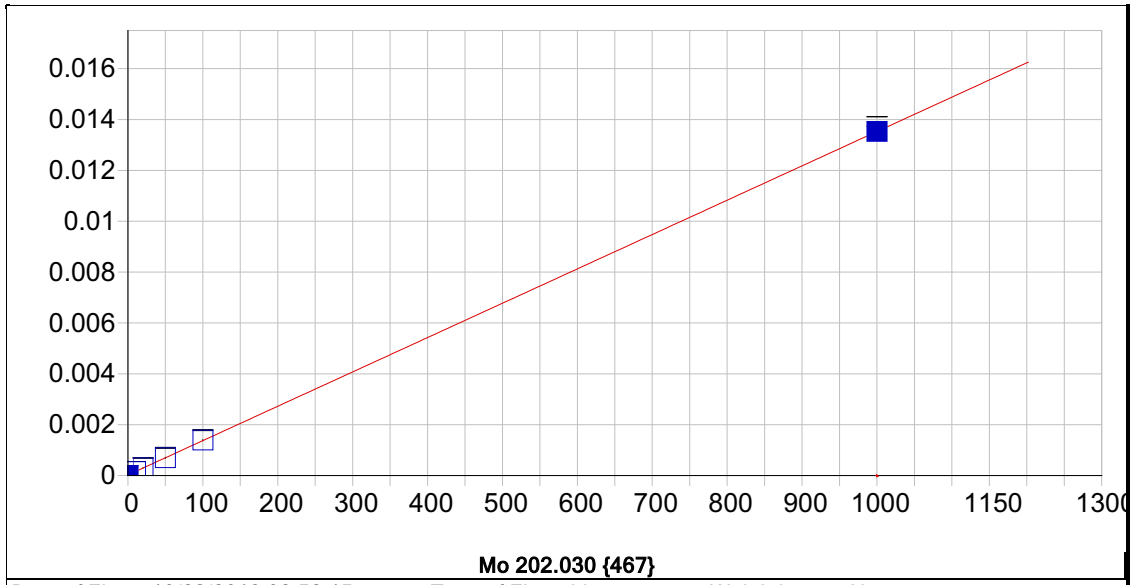


Mo 203.844 {465}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000017	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999790	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.600447		
Predicted MQL:	2.001490		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00072	-.001	.000	.00001	.000	1
CalibStd=50	50.000	50.364	.364	.727	.00089	.000	1
CalibStd=1	1.0000	1.4856	.486	48.6	.00004	.000	1
CalibStd=20	20.000	21.530	1.53	7.65	.00039	.000	1
CalibStd=10	10.000	10.594	.594	5.94	.00020	.000	1
CalibStd=100	100.00	102.27	2.27	2.27	.00179	.000	1
CalibStd=5	5.0000	5.3486	.349	6.97	.00011	.000	1
CalibStd=100	1000.0	994.41	-5.59	-.559	.01727	.000	1

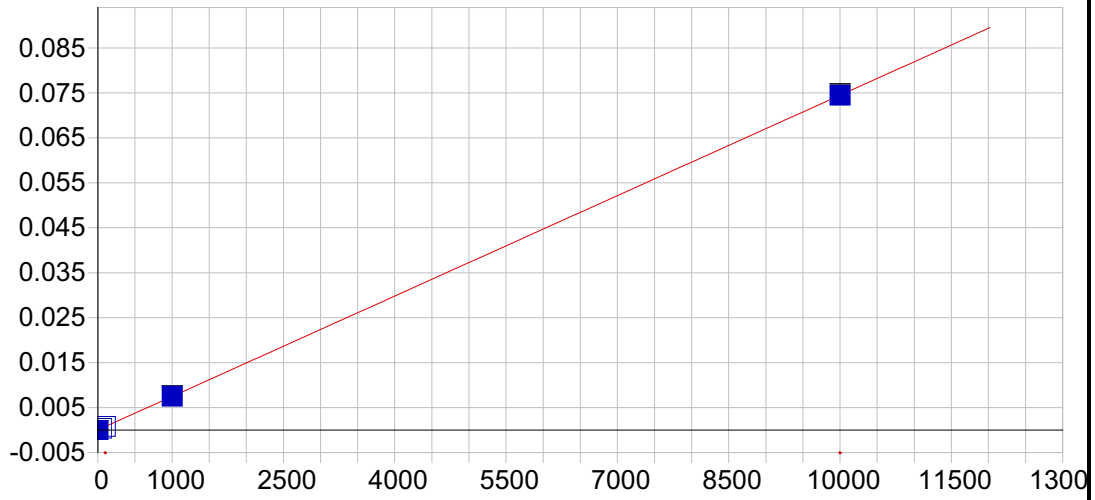


Mo 202.030 {467}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000023	Re-Slope:	1.000000
A1 (Gain):	0.000014	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.500512		
Predicted MQL:	1.668373		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.1013	-1.10	.000	.00001	.000	1
CalibStd=50	50.000	49.986	-.014	-.027	.00070	.000	1
CalibStd=20	20.000	20.497	.497	2.49	.00030	.000	1
CalibStd=10	10.000	9.4808	-.519	-5.19	.00015	.000	1
CalibStd=100	100.00	101.27	1.27	1.27	.00139	.000	1
CalibStd=100	1000.0	999.87	-.131	-.013	.01353	.000	1

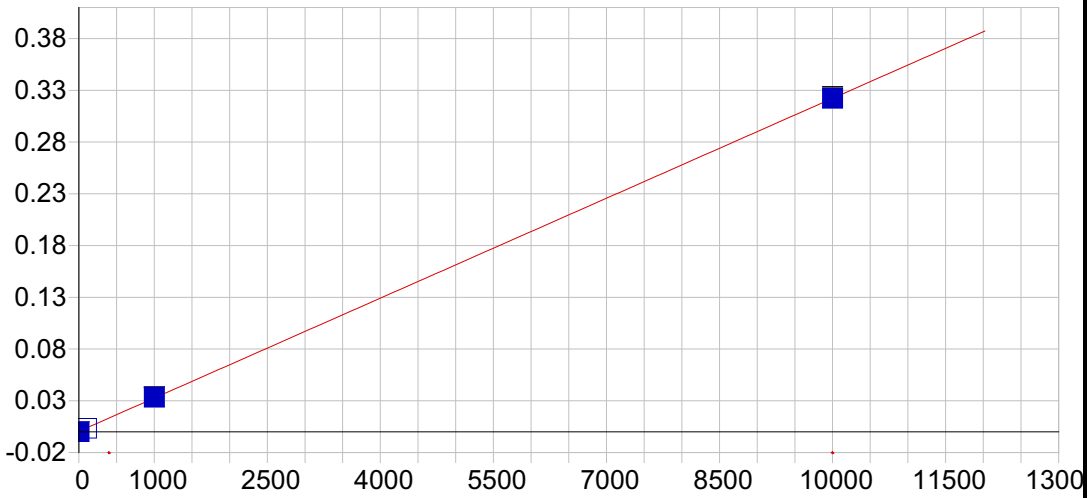


Mo 204.598 {465}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000032	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000036		
Predicted MDL:	1.009798		
Predicted MQL:	3.365994		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.7987	-3.80	.000	.00000	.000	1
CalibStd=100	1000.0	1007.1	7.06	.706	.00753	.000	1
CalibStd=100	10000.	9999.3	-.692	-.007	.07448	.000	1
CalibStd=50	50.000	47.651	-2.35	-4.70	.00039	.000	1
CalibStd=100	100.00	99.776	-.224	-.224	.00077	.000	1

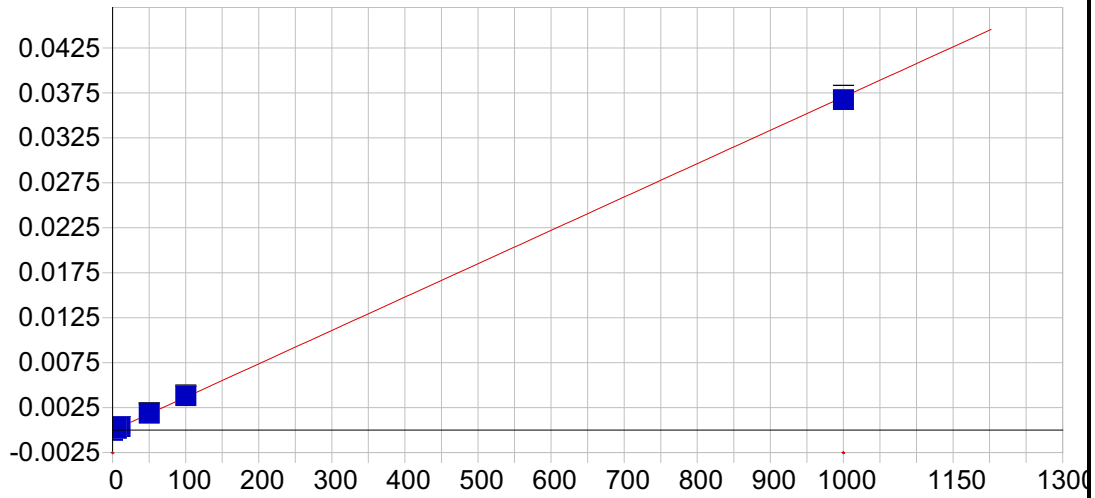


Ni 221.647 {452}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000442	Re-Slope:	1.000000
A1 (Gain):	0.000032	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000673		
Predicted MDL:	0.489158		
Predicted MQL:	1.630528		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-14.345	-14.3	.000	-.00002	.000	1
CalibStd=100	10000.	9997.6	-2.38	-.024	.32213	.001	1
CalibStd=100	100.00	92.175	-7.83	-7.83	.00341	.000	1
CalibStd=100	1000.0	1024.5	24.5	2.45	.03341	.001	1

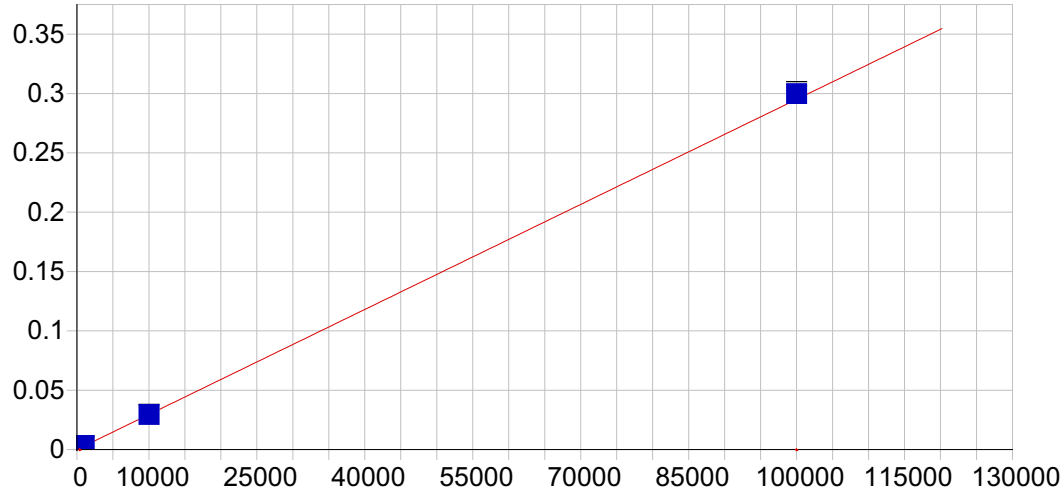


Ni 231.604 {445}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000054	Re-Slope:	1.000000
A1 (Gain):	0.000037	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999681	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.569068		
Predicted MQL:	1.896894		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00212	-.002	.000	-.00005	.000	1
CalibStd=50	50.000	51.740	1.74	3.48	.00187	.000	1
CalibStd=10	10.000	11.596	1.60	16.0	.00038	.000	1
CalibStd=100	100.00	104.03	4.03	4.03	.00381	.000	1
CalibStd=5	5.0000	5.9853	.985	19.7	.00017	.000	1
CalibStd=100	1000.0	991.64	-8.36	-.836	.03674	.000	1

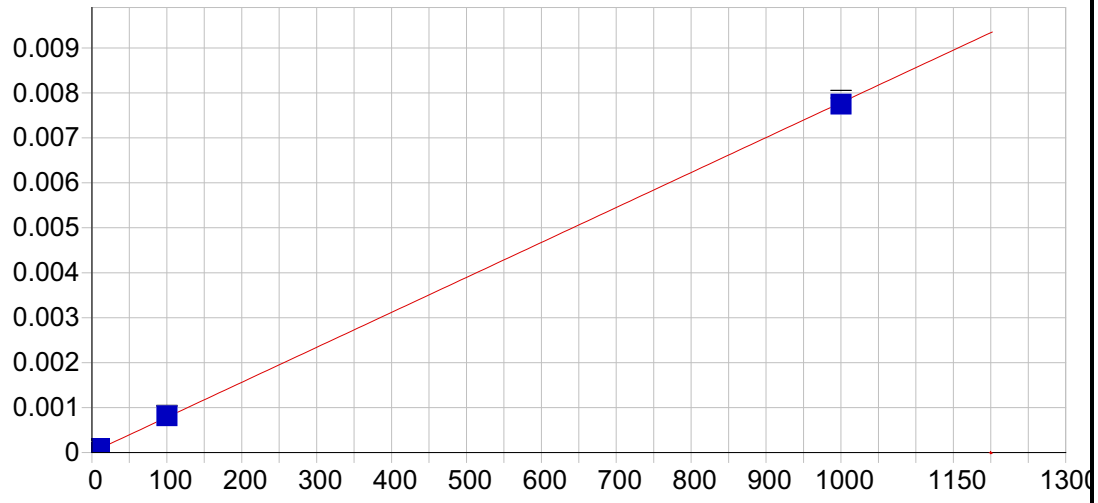


Pb 216.999 {455}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.000012	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	4.125054		
Predicted MQL:	13.750178		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01398	-.014	.000	.00001	.000	1
CalibStd=100	1000.0	1041.4	41.4	4.14	.00309	.000	1
CalibStd=100	10000.	9959.2	-40.8	-.408	.02948	.000	1
CalibStd-100	100000.	101610.	1610.	1.61	.29984	.002	1
CalibStd=100	100.00	110.42	10.4	10.4	.00034	.000	1

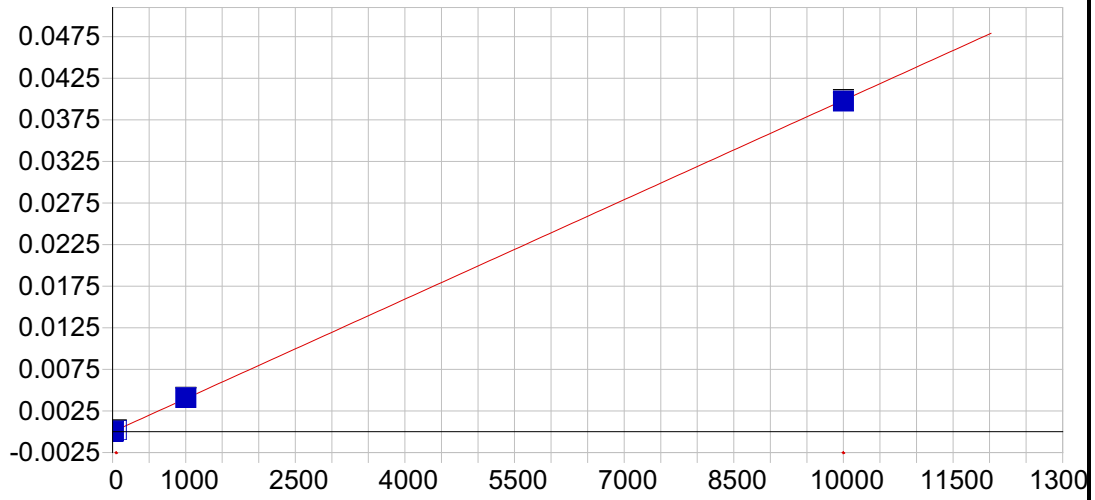


Pb 220.353 {453}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999903	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	1.631813		
Predicted MQL:	5.439375		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00063	-.001	.000	.00001	.000	1
CalibStd=10	10.000	10.451	.451	4.51	.00009	.000	1
CalibStd=100	100.00	104.04	4.04	4.04	.00082	.000	1
CalibStd=5	5.0000	5.2212	.221	4.42	.00005	.000	1
CalibStd=100	1000.0	995.28	-4.72	-.472	.00775	.000	1

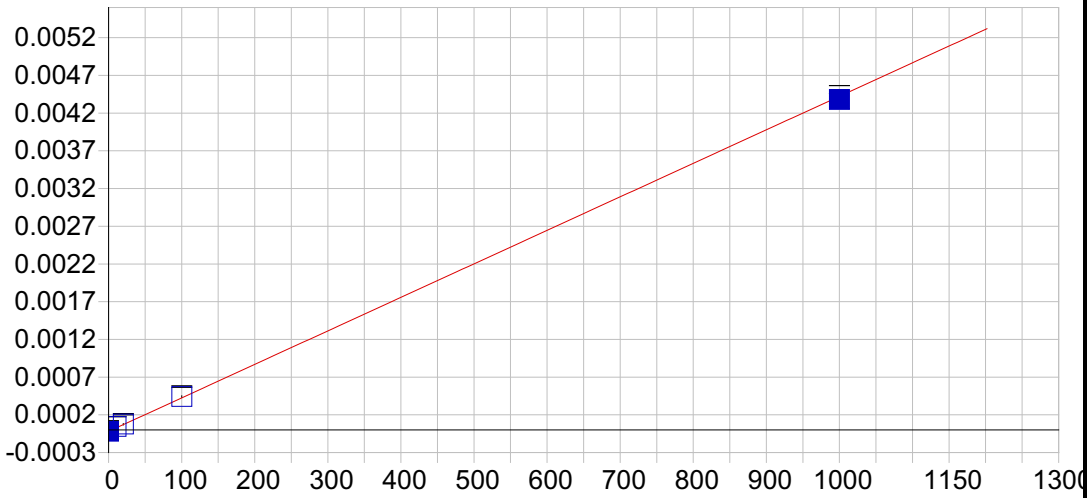


Sb 206.833 {463}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	2.223921		
Predicted MQL:	7.413070		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00160	-.002	.000	.00000	.000	1
CalibStd=100	1000.0	1027.0	27.0	2.70	.00409	.000	1
CalibStd=10	10.000	10.772	.772	7.72	.00004	.000	1
CalibStd=50	50.000	52.954	2.95	5.91	.00021	.000	1
CalibStd=100	10000.	9969.3	-30.7	-.307	.03973	.000	1

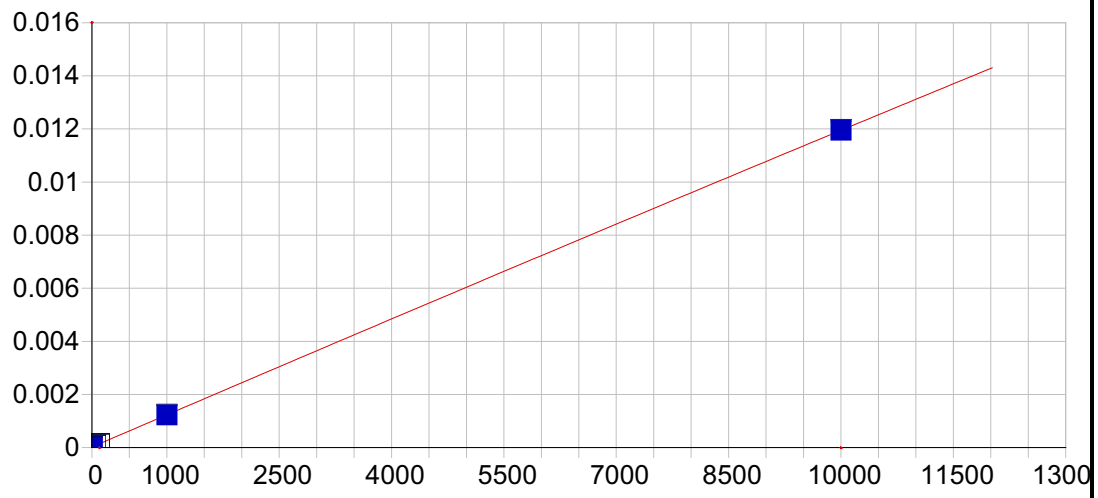


Sb 217.581 {455}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000020	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998961	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	3.018554		
Predicted MQL:	10.061847		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00548	-.005	.000	-.00002	.000	1
CalibStd=100	1000.0	990.30	-9.70	-.970	.00438	.000	1
CalibStd=20	20.000	21.430	1.43	7.15	.00008	.000	1
CalibStd=10	10.000	14.482	4.48	44.8	.00004	.000	1
CalibStd=100	100.00	103.79	3.79	3.79	.00044	.000	1

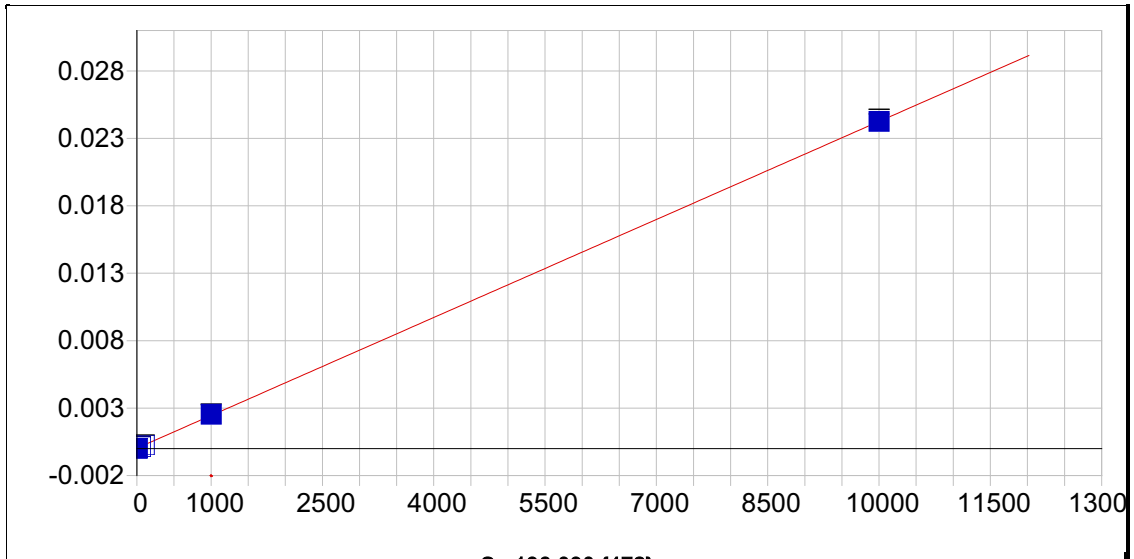


Se 196.090 {172}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.000020	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	0.999684	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	12.417225		
Predicted MQL:	41.390749		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00475	.005	.000	.00002	.000	1
CalibStd=50	50.000	59.972	9.97	19.9	.00009	.000	1
CalibStd=100	1000.0	994.34	-5.66	-.566	.00123	.000	1
CalibStd=10	10.000	3.1073	-6.89	-68.9	.00002	.000	1
CalibStd=100	100.00	102.06	2.06	2.06	.00014	.000	1
CalibStd=100	10000.	10001.	.519	.005	.01195	.000	1

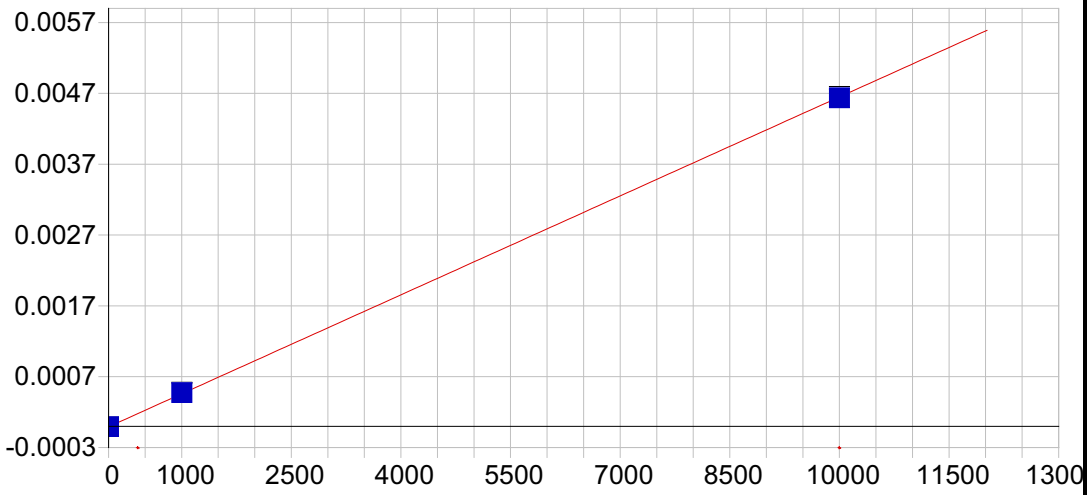


Se 196.090 {472}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000028	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000047		
Predicted MDL:	3.286910		
Predicted MQL:	10.956368		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-9.8405	-9.84	.000	.00000	.000	1
CalibStd=50	50.000	41.760	-8.24	-16.5	.00013	.000	1
CalibStd=100	1000.0	1034.6	34.6	3.46	.00253	.000	1
CalibStd=10	10.000	.36708	-9.63	-96.3	.00003	.000	1
CalibStd=100	100.00	96.492	-3.51	-3.51	.00026	.000	1
CalibStd=100	10000.	9996.6	-3.37	-.034	.02425	.000	1

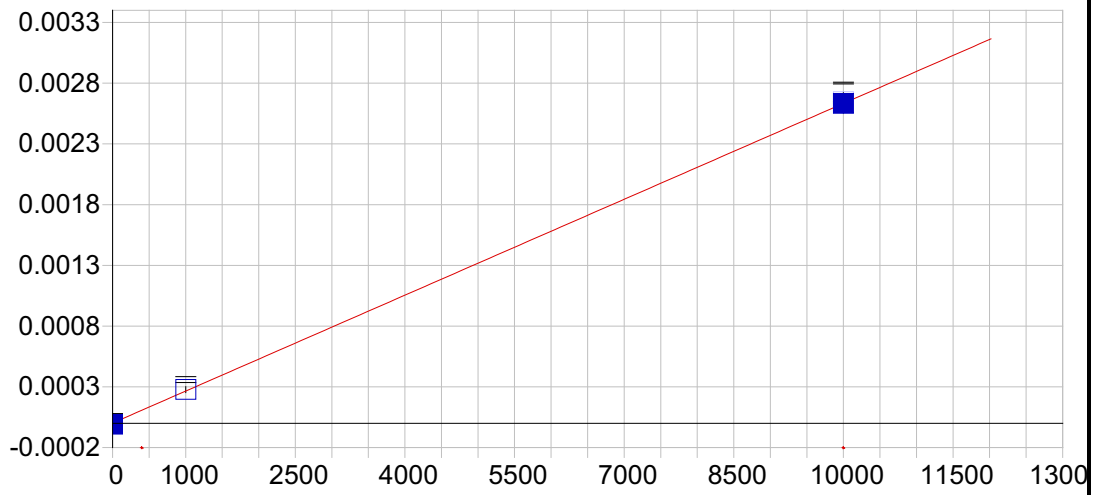


Se 206.279 {463}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999950	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	27.364770		
Predicted MQL:	91.215900		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.02843	-.028	.000	-.00001	.000	1
CalibStd=100	1000.0	1031.6	31.6	3.16	.00047	.000	1
CalibStd=100	10000.	9968.4	-31.6	-.316	.00464	.000	1

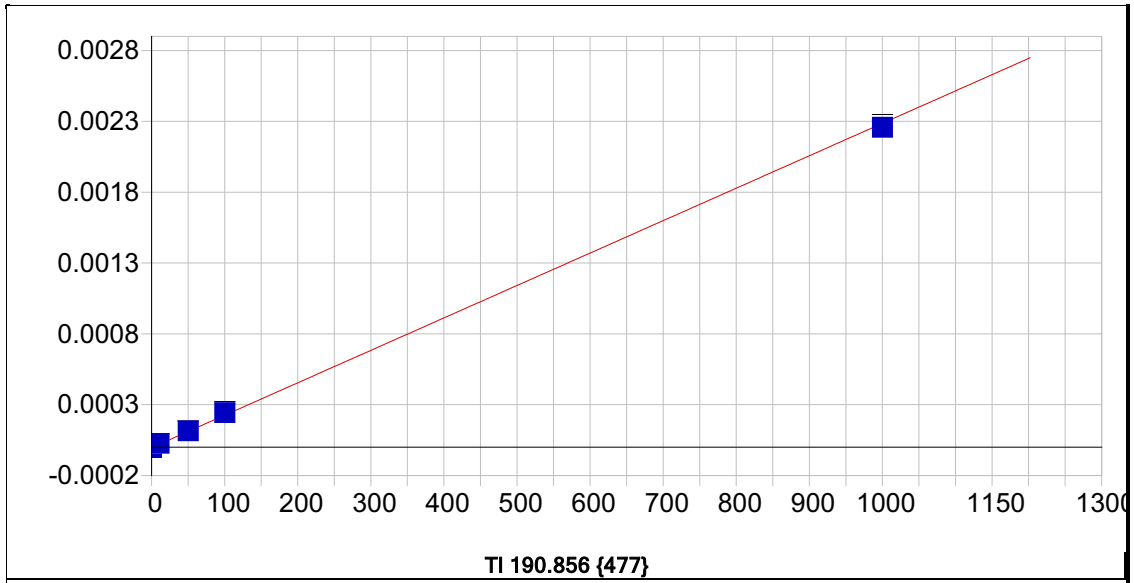


Tl 276.787 {122}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000016		
Predicted MDL:	122.436933		
Predicted MQL:	408.123110		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-41.546	-41.5	.000	-.00001	.000	1
CalibStd=100	1000.0	1046.1	46.1	4.61	.00028	.000	1
CalibStd=100	10000.	9995.4	-4.59	-.046	.00265	.000	1

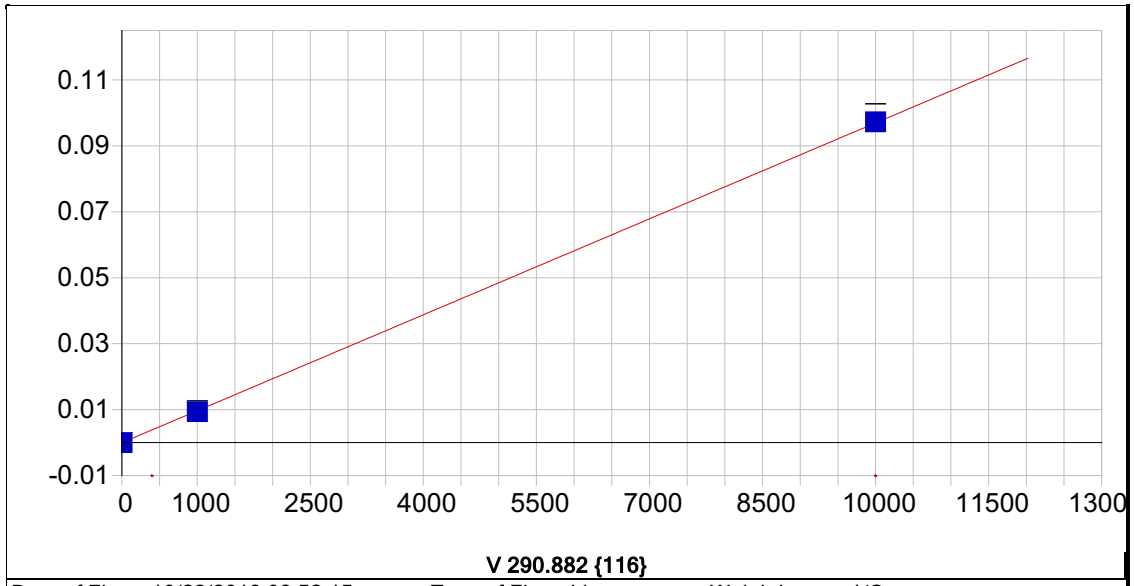


Tl 190.856 {477}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999220	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	2.741669		
Predicted MQL:	9.138896		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00412	-.004	.000	.00000	.000	1
CalibStd=50	50.000	51.399	1.40	2.80	.00011	.000	1
CalibStd=100	1000.0	987.65	-12.4	-1.24	.00226	.000	1
CalibStd=100	100.00	107.77	7.77	7.77	.00024	.000	1
CalibStd=10	10.000	13.183	3.18	31.8	.00003	.000	1

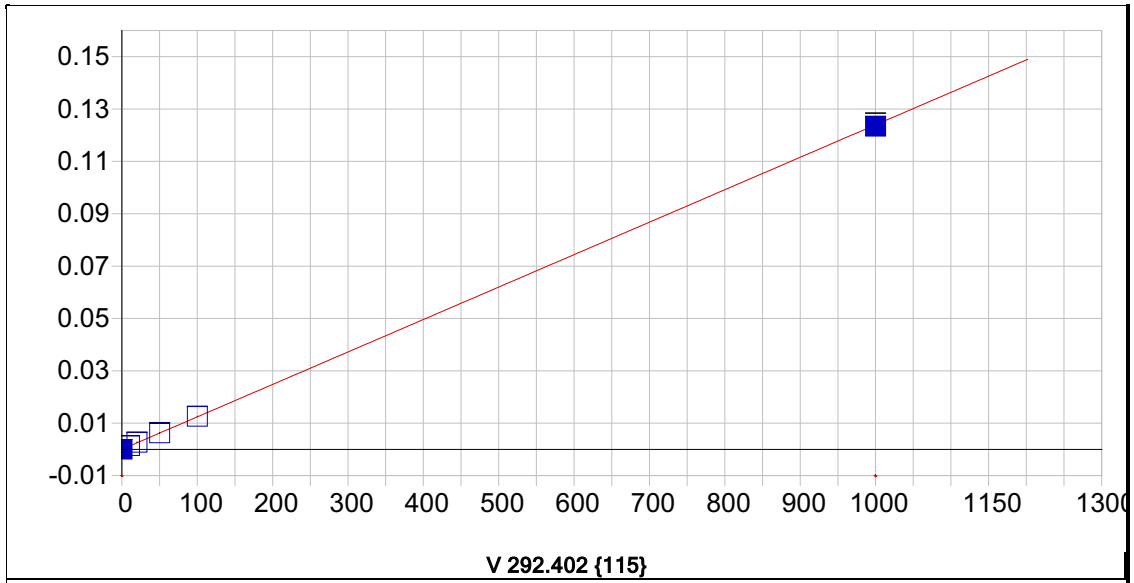


V 290.882 {116}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000045	Re-Slope:	1.000000
A1 (Gain):	0.000010	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	4.896160		
Predicted MQL:	16.320534		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.02779	.028	.000	-.00004	.000	1
CalibStd=100	1000.0	969.12	-30.9	-3.09	.00936	.000	1
CalibStd=100	10000.	10031.	30.9	.309	.09727	.002	1

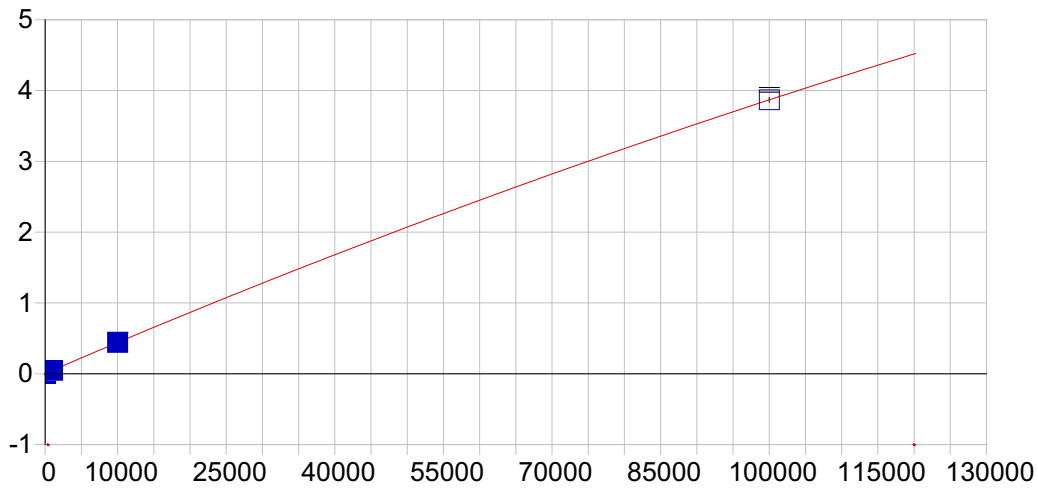


V 292.402 {115}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000124	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999892	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.711690		
Predicted MQL:	2.372299		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00192	-.002	.000	.00001	.000	1
CalibStd=50	50.000	50.462	.462	.924	.00627	.000	1
CalibStd=100	1000.0	995.69	-4.31	-.431	.12345	.001	1
CalibStd=20	20.000	21.582	1.58	7.91	.00269	.000	1
CalibStd=10	10.000	10.943	.943	9.43	.00137	.000	1
CalibStd=100	100.00	101.33	1.33	1.33	.01258	.000	1

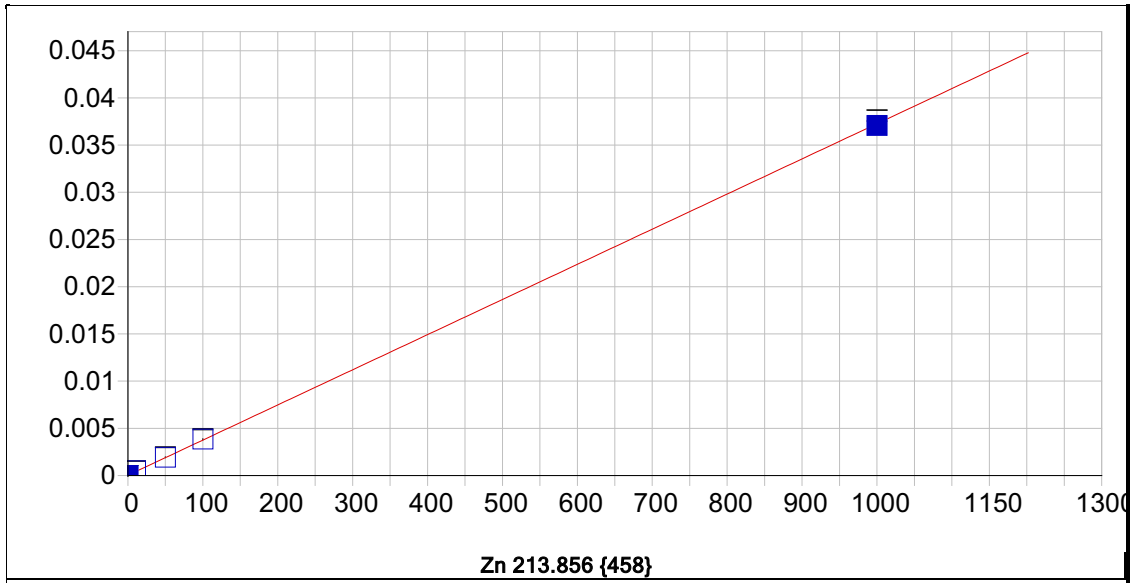


Zn 206.200 {463}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000101	Re-Slope:	1.000000
A1 (Gain):	0.000049	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.990000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.202327		
Predicted MQL:	0.674423		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
CalibStd=100	10000.	9999.7	-.296	-.003	.44135	.002	1
Blank	.00000	.00000	.000	.000	.00000	.000	1
CalibStd=100	1000.0	1002.5	2.51	.251	.04584	.001	1
CalibStd-100	100000.	100000.	.004	.000	3.8685	.032	1

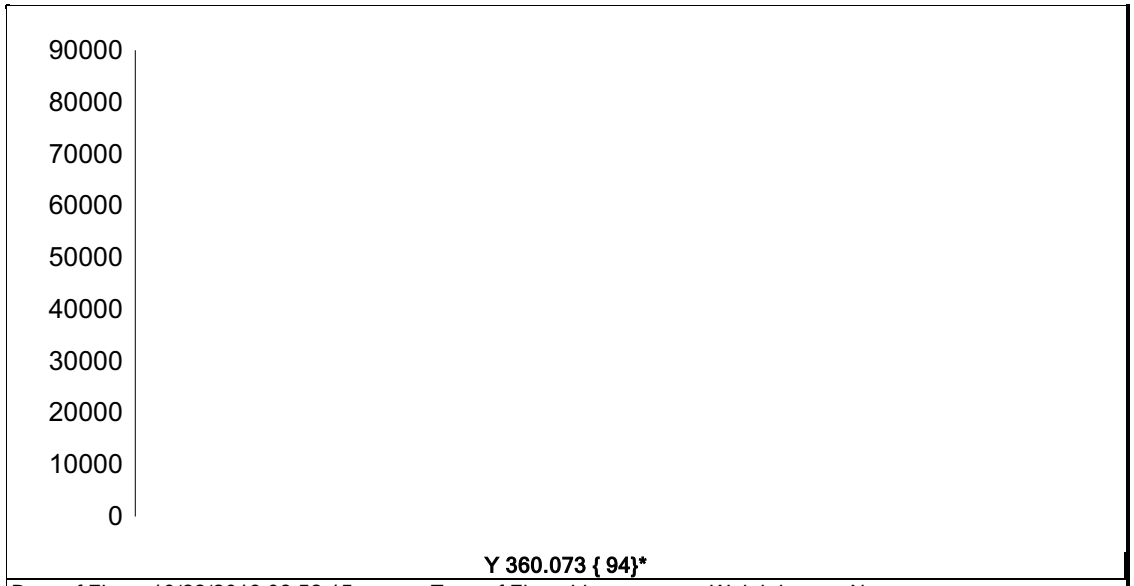


Zn 213.856 {458}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000032	Re-Slope:	1.000000
A1 (Gain):	0.000037	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999776	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.208341		
Predicted MQL:	0.694470		

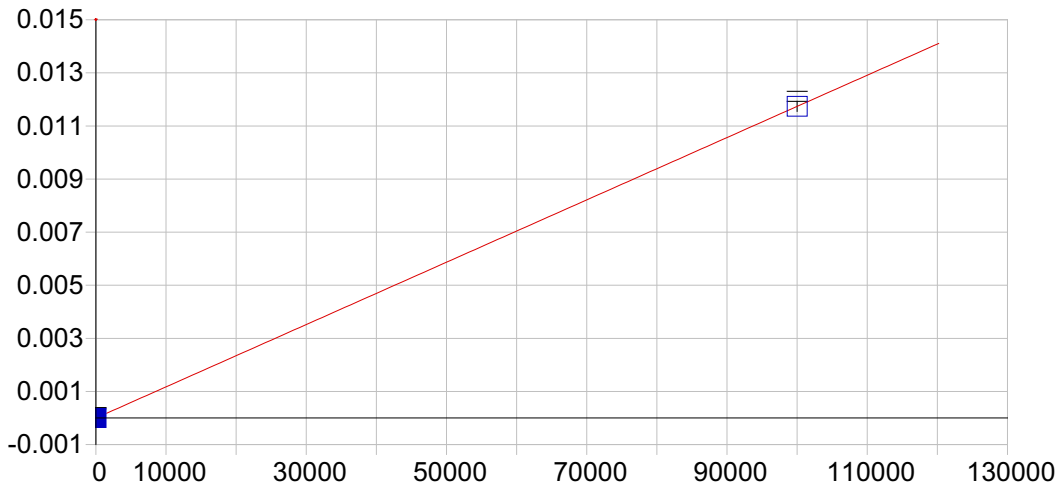
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00242	-.002	.000	.00003	.000	1
CalibStd=100	100.00	102.26	2.26	2.26	.00384	.000	1
CalibStd=50	50.000	50.970	.970	1.94	.00193	.000	1
CalibStd=10	10.000	12.052	2.05	20.5	.00048	.000	1
CalibStd=100	1000.0	994.72	-5.28	-.528	.03707	.001	1



Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	82043.	485.	1

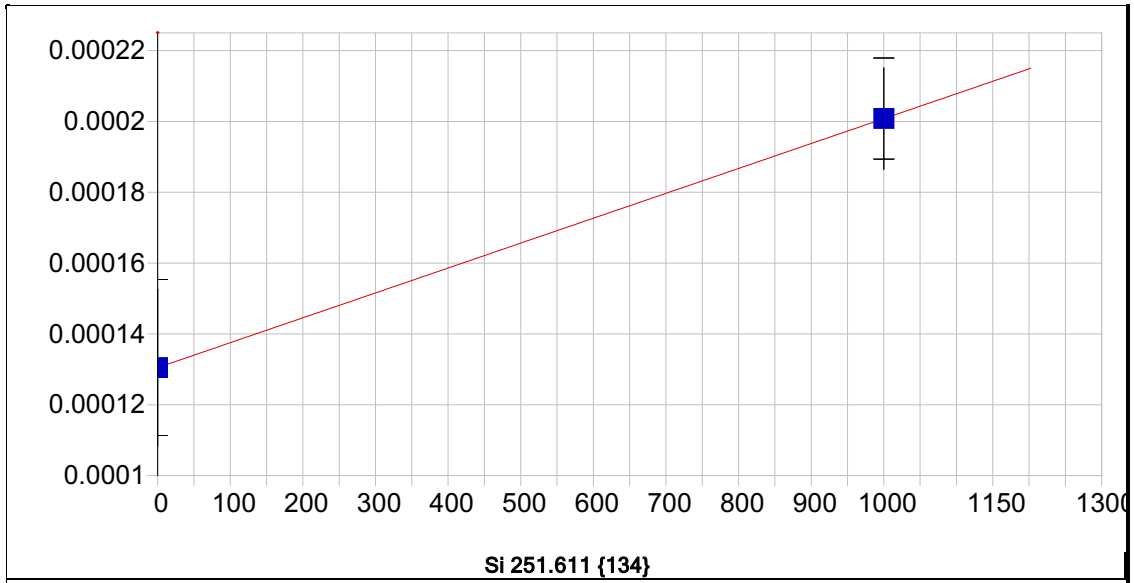


Na 330.298 {102}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	461.592582		
Predicted MQL:	1538.641941		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00000	.000	1
CalibStd-100	100000.	100000.	.000	.000	.01174	.000	1

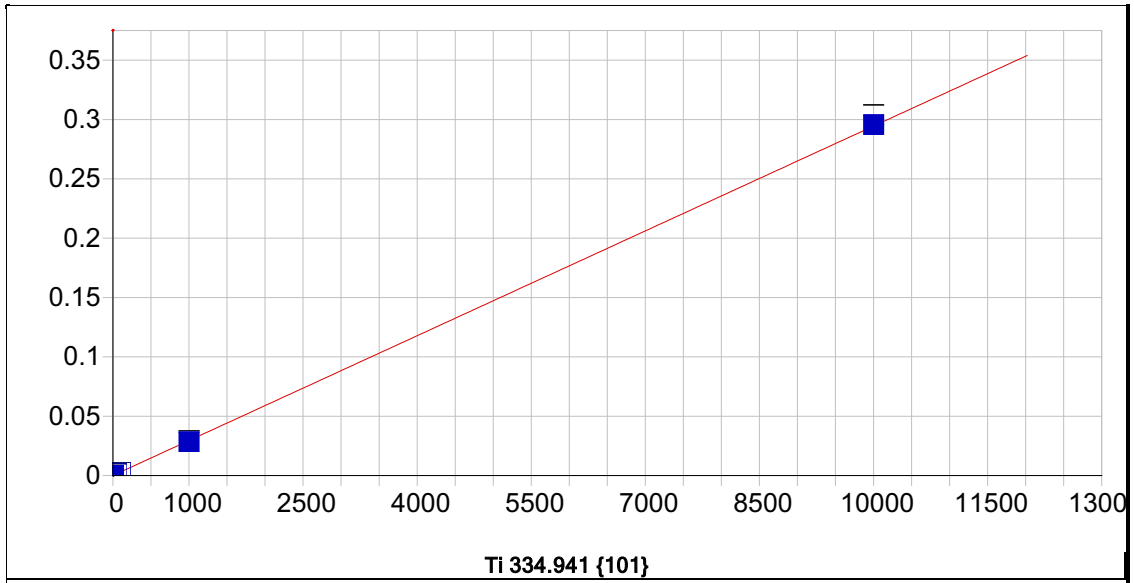


Si 251.611 {134}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000130	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	406.783135		
Predicted MQL:	1355.943785		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00013	.000	1
CalibStd=100	1000.0	1000.0	.000	.000	.00020	.000	1

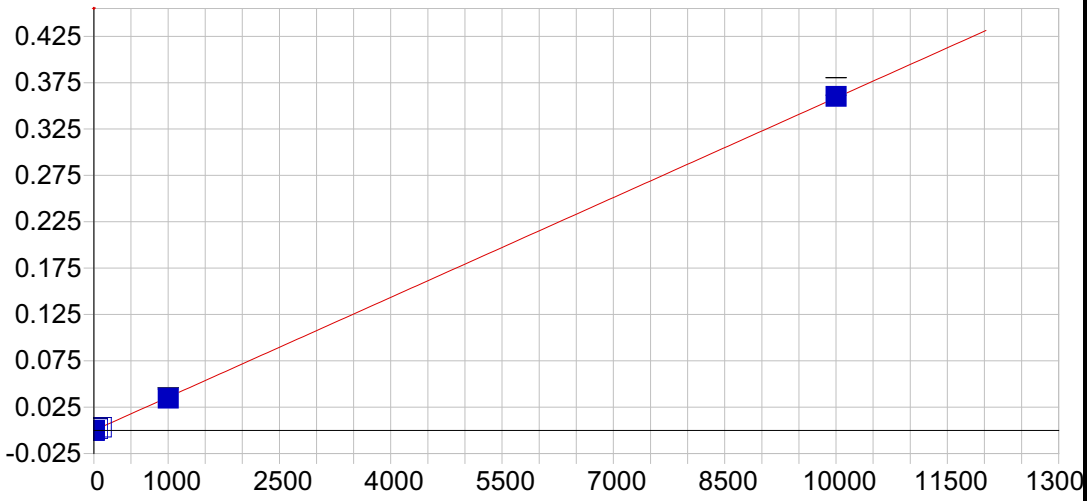


Ti 334.941 {101}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000040	Re-Slope:	1.000000
A1 (Gain):	0.000029	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999902	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.376795		
Predicted MQL:	4.589317		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00100	.001	.000	.00004	.000	1
CalibStd=10	10.000	9.2962	-.704	-7.04	.00031	.000	1
CalibStd=100	100.00	99.720	-.280	-.280	.00298	.000	1
CalibStd=100	1000.0	965.02	-35.0	-3.50	.02846	.001	1
CalibStd=100	10000.	10040.	40.1	.401	.29568	.008	1
CalibStd=50	50.000	47.246	-2.75	-5.51	.00143	.000	1
CalibStd=1	1.0000	.29540	-.705	-70.5	.00005	.000	1
CalibStd=5	5.0000	4.3107	-.689	-13.8	.00017	.000	1

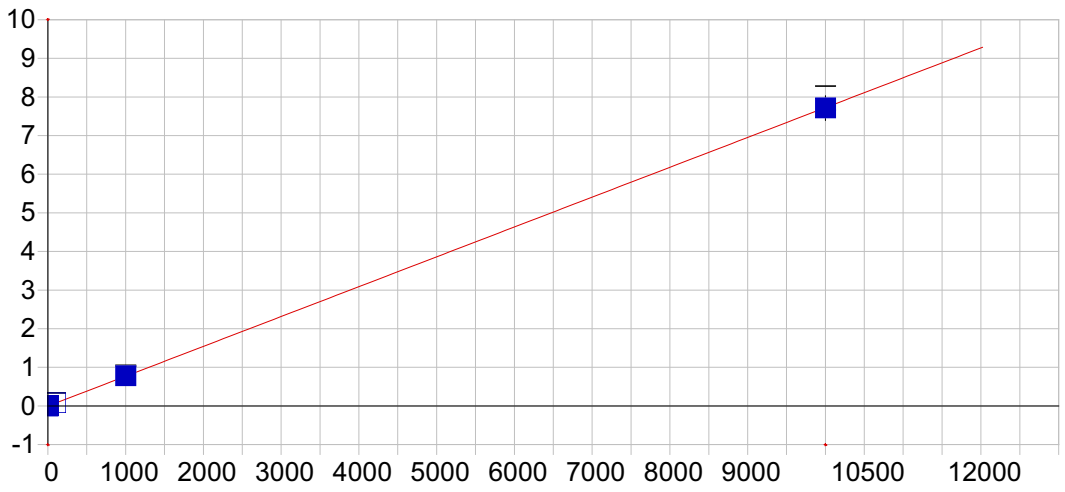


Ti 337.280 {100}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000102	Re-Slope:	1.000000
A1 (Gain):	0.000036	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999884	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.572133		
Predicted MQL:	5.240442		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00125	.001	.000	-.00010	.000	1
CalibStd=10	10.000	10.083	.083	.834	.00026	.000	1
CalibStd=100	100.00	97.803	-2.20	-2.20	.00341	.000	1
CalibStd=100	1000.0	966.20	-33.8	-3.38	.03457	.001	1
CalibStd=100	10000.	10038.	38.5	.385	.36015	.010	1
CalibStd=50	50.000	49.068	-.932	-1.86	.00166	.000	1
CalibStd=1	1.0000	-.07583	-1.08	-108.	-.00010	.000	1
CalibStd=5	5.0000	4.4349	-.565	-11.3	.00006	.000	1

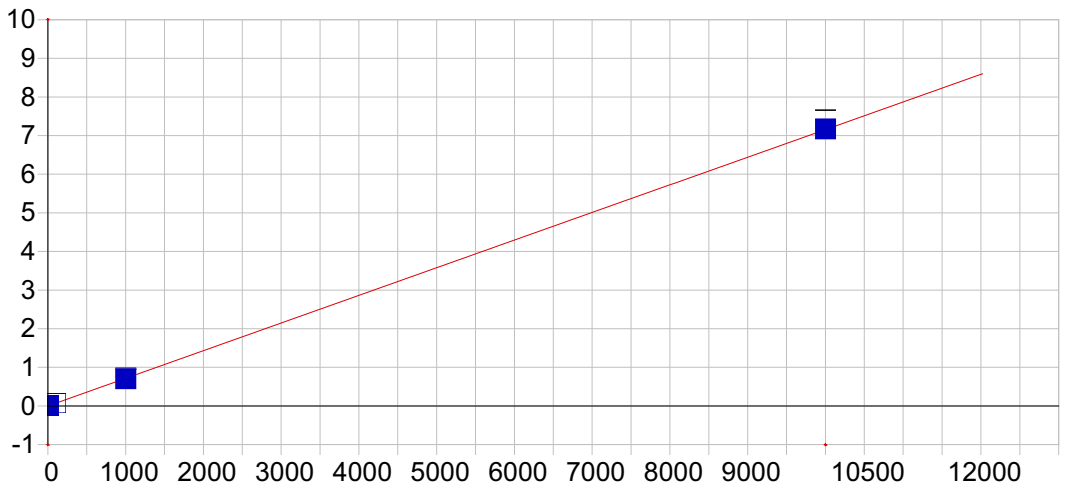


Sr 407.771 { 83}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003630	Re-Slope:	1.000000
A1 (Gain):	0.000773	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999983	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.104756		
Predicted MQL:	0.349186		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00030	.000	.000	-.00363	.000	1
CalibStd=1	1.0000	1.1071	.107	10.7	-.00277	.000	1
CalibStd=5	5.0000	5.3604	.360	7.21	.00051	.000	1
CalibStd=10	10.000	10.779	.779	7.79	.00470	.000	1
CalibStd=100	100.00	103.78	3.78	3.78	.07658	.001	1
CalibStd=100	1000.0	1010.2	10.2	1.02	.77712	.019	1
CalibStd=100	10000.	9984.8	-15.2	-.152	7.7134	.312	1

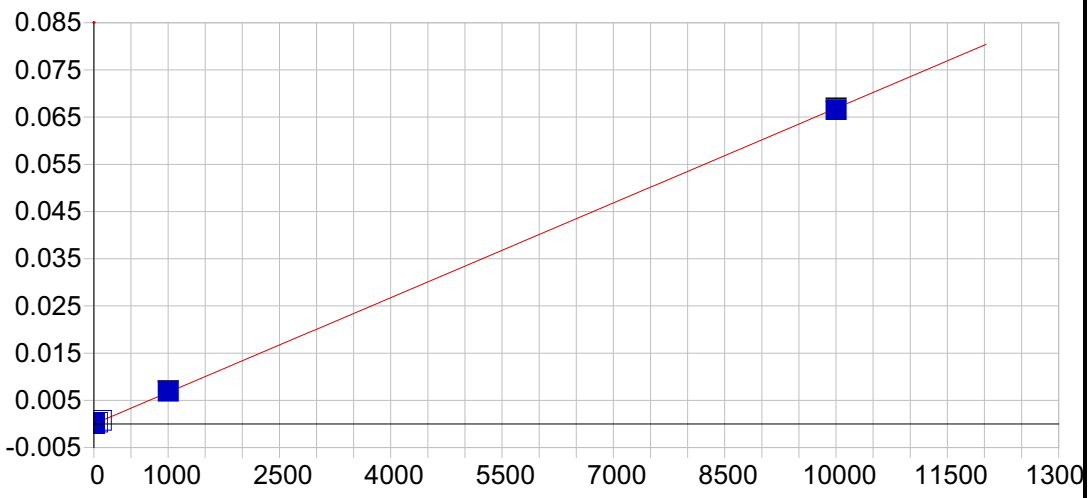


Sr 421.552 { 80}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000524	Re-Slope:	1.000000
A1 (Gain):	0.000716	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.127499		
Predicted MQL:	0.424995		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00004	.000	.000	-.00052	.000	1
CalibStd=1	1.0000	.98666	-.013	-1.33	.00018	.000	1
CalibStd=5	5.0000	5.1534	.153	3.07	.00316	.000	1
CalibStd=10	10.000	10.434	.434	4.34	.00694	.000	1
CalibStd=100	100.00	100.12	.123	.123	.07114	.001	1
CalibStd=100	1000.0	980.85	-19.2	-1.92	.70149	.017	1
CalibStd=100	10000.	10018.	18.5	.185	7.1698	.229	1

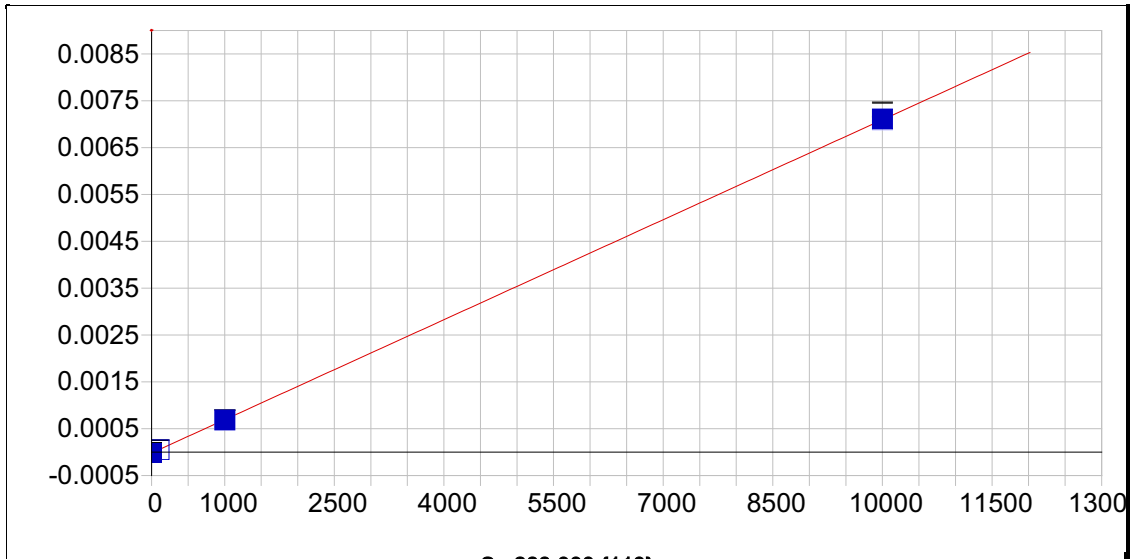


Sn 189.989 {477}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999888	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.894786		
Predicted MQL:	2.982619		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00232	-.002	.000	.00000	.000	1
CalibStd=100	10000.	9953.3	-46.7	-.467	.06657	.000	1
CalibStd=100	1000.0	1033.4	33.4	3.34	.00691	.000	1
CalibStd=100	100.00	108.05	8.05	8.05	.00072	.000	1
CalibStd=10	10.000	10.780	.780	7.80	.00007	.000	1
CalibStd=50	50.000	53.370	3.37	6.74	.00036	.000	1
CalibStd=5	5.0000	6.0464	1.05	20.9	.00004	.000	1

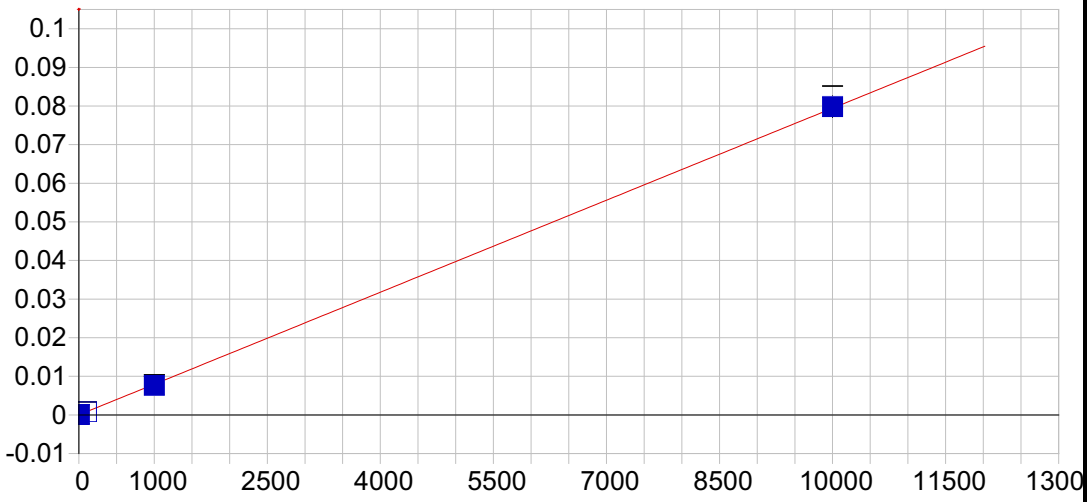


Sn 283.999 {119}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000019	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	40.197105		
Predicted MQL:	133.990350		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00641	.006	.000	-.00002	.000	1
CalibStd=100	10000.	10017.	17.4	.174	.00709	.000	1
CalibStd=100	1000.0	987.98	-12.0	-1.20	.00068	.000	1
CalibStd=100	100.00	94.617	-5.38	-5.38	.00005	.000	1

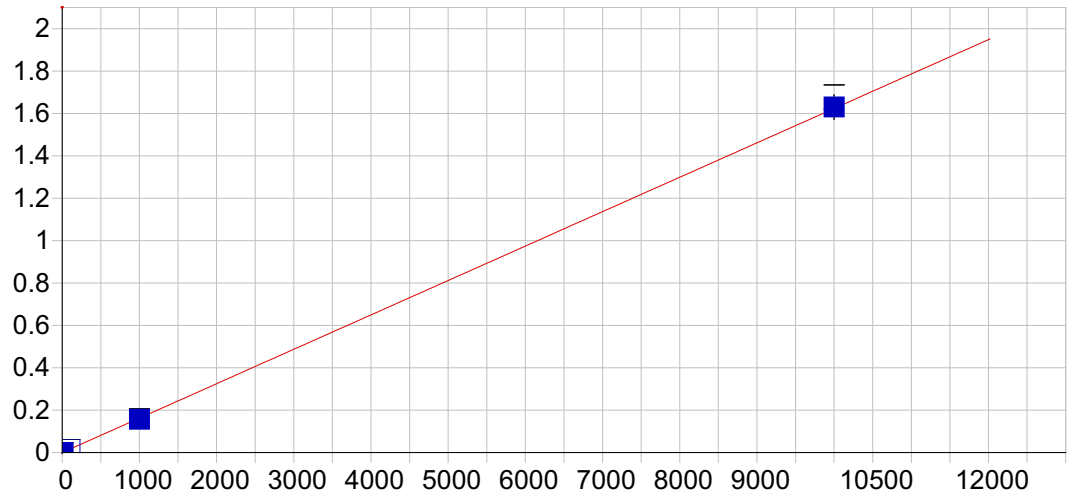


B 249.773 {135}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000005	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999895	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	2.652021		
Predicted MQL:	8.840071		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00044	.000	.000	.00000	.000	1
CalibStd=100	100.00	96.314	-3.69	-3.69	.00077	.000	1
CalibStd=10	10.000	11.195	1.19	11.9	.00009	.000	1
CalibStd=100	1000.0	957.01	-43.0	-4.30	.00762	.000	1
CalibStd=100	10000.	10045.	45.5	.455	.07990	.003	1



Li 670.784 { 50}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000083	Re-Slope:	1.000000
A1 (Gain):	0.000162	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999915	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	1.045958		
Predicted MQL:	3.486526		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00095	-.001	.000	.00008	.000	1
CalibStd=10	10.000	11.394	1.39	13.9	.00193	.000	1
CalibStd=100	100.00	99.139	-.861	-.861	.01618	.000	1
CalibStd=100	1000.0	960.75	-39.3	-3.93	.15607	.004	1
CalibStd=100	10000.	10039.	38.7	.387	1.6300	.057	1

Sample Name: Blank Acquired: 10/21/2013 13:56:02 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	Al1670	As1937	As1890	Ba4554	Ba4934	Be3130	Be2348	Ca3179	Ca3933
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	-.002	.000	.000	.000	.000	.000	-.004	.000	.000	.010	.001
Stddev	.00	.000	.00	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	30.3	2.04	102.	5.77	72.9	358.	22.3	4.13	19.2	333.	.125	2.25

Elem	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Cu3247	Fe2343	Fe2395	Fe2599	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000
Stddev	.00	.000	.000	.000	.00	.000	.00	.000	.000	.000	.000	.00
%RSD	20.5	15.7	275.	7.82	45.6	40.8	91.2	1.54	28.7	282.	30.1	7.26

Elem	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Stddev	.000	.000	.00	.000	.000	.00	.00	.000	.000	.00	.00	.000
%RSD	7.51	15.0	794.	57.2	150.	33.3	5.39	27.5	67.1	153.	33.1	43.7

Elem	Se1960	Se2062	Tl2767	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.000	.000	.000	.000	.000	.000	.000
Stddev	.000	.00	.00	.00	.00	.000	.00	.000
%RSD	127.	103.	52.4	135.	121.	382.	6770.	11.6

Int. Std.	Y_3600
Units	Cts/S
Avg	82043.
Stddev	485.
%RSD	.59171

Sample Name: CalibStd=0.25 Acquired: 10/21/2013 13:59:50 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Be3130
Units	Cts/S
Avg	.000
Stddev	.000
%RSD	2.55

Int. Std.	Y_3600
Units	Cts/S
Avg	82825.
Stddev	1306.
%RSD	1.5766

Sample Name: CalibStd=0.5 Acquired: 10/21/2013 14:03:40 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	.000	.000
Stddev	.000	.000
%RSD	20.4	6.02

Int. Std.	Y_3600
Units	Cts/S
Avg	83915.
Stddev	1352.
%RSD	1.6111

Sample Name: CalibStd=1 Acquired: 10/21/2013 14:07:30 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Cd2265
Units	Cts/S	Cts/S
Avg	.000	.000
Stddev	.000	.000
%RSD	517.	8.48

Int. Std.	Y_3600
Units	Cts/S
Avg	84135.
Stddev	653.
%RSD	.77569

Sample Name: CalibStd=5 Acquired: 10/21/2013 14:11:21 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cu2247	Mn2576	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.003	.001	.000	.000	.000	.000	.000	.000
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	3.27	4.81	1.98	2.80	5.99	8.02	9.65	5.61	12.3

Int. Std.	Y_3600
Units	Cts/S
Avg	84035.
Stddev	321.
%RSD	.38216

Sample Name: CalibStd=10 Acquired: 10/21/2013 14:15:12 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mn2576	Mo2020	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.001	.000	.000	.006	.003	.001	.001	.001	.000	.000	.000	.000
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	4.29	1.66	.619	1.24	2.23	1.40	1.74	3.47	3.09	1.40	1.95	1.06

Elem	Pb2203	Sb2068	Sb2175	Se1960	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.000	.000	.000	.000	.000	.001	.000
Stddev	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	9.55	7.99	11.9	23.6	15.2	10.5	4.34	2.62

Int. Std.	Y_3600
Units	Cts/S
Avg	83142.
Stddev	516.
%RSD	.62042

Sample Name: CalibStd=20 Acquired: 10/21/2013 14:19:02 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ba4554	Cr2677	Cu2247	Fe2599	Mn2576	Mo2020	Sb2175	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.011**	**.002**	**.000**	**.000**	**.001**	**.000**	**.000**	**.003**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.26	1.74	2.67	1.11	1.48	3.06	12.5	3.72

Int. Std.	Y_3600
Units	Cts/S
Avg	**83741.**
Stddev	231.
%RSD	.27555

Sample Name: CalibStd=50 Acquired: 10/21/2013 14:22:50 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al1670	As1937	Ba4554	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599	Mg2802	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.000	.027	.057	.004	.003	.004	.001	.001	.000	.006	.002
Stddev	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	3.21	3.53	1.20	1.01	2.47	2.10	2.31	3.37	3.70	4.92	1.02	2.32

Elem	Mo2020	Mo2045	Ni2316	Sb2068	Se1960	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.001	.000	.002	.000	.000	.000	.000	.006	.002
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	2.67	3.67	2.81	3.74	4.58	5.51	2.47	2.89	2.45

Int. Std.	Y_3600
Units	Cts/S
Avg	82518.
Stddev	863.
%RSD	1.0461

Sample Name: CalibStd=100 Acquired: 10/21/2013 14:26:34 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	As1937	As1890	Ba4554	Ba4934	Be3130	Be2348	Ca3933	Cd2265	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.007	.000	.000	.053	.043	.024	.002	.103	.009	.014	.005	.009
Stddev	.000	.000	.000	.001	.001	.000	.000	.001	.000	.000	.000	.000
%RSD	.911	1.55	3.88	.958	1.21	1.29	1.54	1.26	1.47	1.25	1.50	.103

Elem	Cr2835	Cu2247	Cu3247	Fe2599	Mg2802	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.002	.002	.004	.001	.012	.004	.001	.001	.003	.004	.000	.001
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.74	2.69	1.87	2.34	1.15	.851	1.47	1.13	1.89	1.93	1.76	1.23

Elem	Sb2175	Se1960	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.000	.000	.000	.013	.004
Stddev	.000	.000	.000	.000	.000	.000
%RSD	2.43	6.75	.579	3.15	.651	1.58

Int. Std.	Y_3600
Units	Cts/S
Avg	82686.
Stddev	397.
%RSD	.47979

Sample Name: CalibStd=1000 Acquired: 10/21/2013 14:30:11 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3092	Al1670	As1937	As1890	Ba4934	Be2348	Ca3179	Ca3933	Cd2265	Cd2288	Co2286	Co2388
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.004**	**.002**	**.001**	**.451**	**.019**	**.019**	**.906**	**.085**	**.137**	**.051**	**.004**
Stddev	.000	.000	.000	.000	.011	.001	.000	.021	.001	.002	.001	.000
%RSD	2.71	1.52	.769	1.67	2.37	2.59	1.34	2.35	1.17	1.27	1.44	1.86

Elem	Cr2677	Cr2835	Cu2247	Cu3247	Fe2343	Fe2395	Fe2599	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.088**	**.017**	**.017**	**.023**	**.001**	**.002**	**.007**	**.110**	**.038**	**.050**	**.014**	**.008**
Stddev	.001	.000	.000	.001	.000	.000	.000	.003	.001	.001	.000	.000
%RSD	1.01	2.55	1.76	2.46	2.18	2.11	2.46	2.40	2.39	2.20	1.41	1.54

Elem	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se1960	Se2062	Tl2767	Tl1908	V_2908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.033**	**.037**	**.003**	**.008**	**.004**	**.004**	**.001**	**.003**	**.000**	**.000**	**.002**	**.009**
Stddev	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.51	1.31	1.24	1.11	.877	1.19	1.65	1.18	1.16	8.66	.878	2.52

Elem	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S
Avg	**.123**	**.046**	**.037**
Stddev	.001	.001	.001
%RSD	.973	1.67	1.56

Int. Std.	Y_3600
Units	Cts/S
Avg	**82988.**
Stddev	333.
%RSD	.40090

Sample Name: CalibStd=10000 Acquired: 10/21/2013 14:33:32 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3092	Al3961	As1890	Ba4554	Ba4934	Ca3179	Co2388	Cr2835	Cu2247	Cu3247	Fe2343	Fe2395
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.040**	**.092**	**.007**	**5.06**	**4.57**	**.102**	**.045**	**.170**	**.159**	**.229**	**.009**	**.019**
Stddev	.001	.002	.000	.24	.15	.003	.001	.004	.001	.007	.000	.000
%RSD	2.94	2.60	.617	4.77	3.23	2.66	2.70	2.43	.430	3.01	2.73	2.25

Elem	Fe2599	Mg2025	Mg2802	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se1960	Se1960	Se2062	Tl2767
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.076**	**.042**	**1.10**	**.514**	**.074**	**.322**	**.029**	**.040**	**.012**	**.024**	**.005**	**.003**
Stddev	.002	.000	.03	.015	.000	.001	.000	.000	.000	.000	.000	.000
%RSD	2.64	.377	2.63	2.85	.393	.442	.498	.454	.252	.725	.401	2.96

Elem	V_2908	Zn2062
Units	Cts/S	Cts/S
Avg	**.097**	**.441**
Stddev	.002	.002
%RSD	2.53	.496

Int. Std.	Y_3600
Units	Cts/S
Avg	**82772.**
Stddev	509.
%RSD	.61518

Sample Name: CalibStd-100k Acquired: 10/21/2013 14:37:42 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	As1890	Cr2835	Cu3247	Mn2593	Pb2169	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.061**	**1.75**	**2.30**	**4.92**	**.300**	**3.87**
Stddev	.000	.02	.04	.12	.002	.03
%RSD	.306	1.22	1.66	2.49	.570	.832

Int. Std.	Y_3600
Units	Cts/S
Avg	**82902.**
Stddev	135.
%RSD	.16234

Sample Name: CalibStd-100000 Acquired: 10/21/2013 14:41:50 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343	Fe2395	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.404**	**.897**	**.918**	**.092**	**.190**	**.381**
Stddev	.006	.015	.017	.001	.003	.003
%RSD	1.57	1.71	1.82	1.61	1.63	.772

Int. Std.	Y_3600
Units	Cts/S
Avg	**83174.**
Stddev	448.
%RSD	.53900

Sample Name: CalibStd=500000 Acquired: 10/21/2013 14:45:48 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.50**	**3.68**	**.441**	**1.57**
Stddev	.14	.11	.012	.01
%RSD	3.18	2.95	2.80	.833

Int. Std.	Y_3600
Units	Cts/S
Avg	**80999.**
Stddev	286.
%RSD	.35299

Sample Name: CalibStd-1000k Acquired: 10/21/2013 14:49:59 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8.71**	**6.75**	**.801**	**2.72**
Stddev	.42	.26	.027	.03
%RSD	4.83	3.86	3.40	1.01

Int. Std.	Y_3600
Units	Cts/S
Avg	**79406.**
Stddev	608.
%RSD	.76590

Sample Name: icv Acquired: 10/21/2013 14:58:08 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2343	Mg2025
Avg	**50.1**	**11400.**	**2060.**	**2060.**	**50.2**	**10300.**	**50.1**	**507.**	**202.**	**257.**	**5110.**	**9180.**
Stddev	.2	153.	11.	41.	.7	153.	.6	6.	1.	4.	59.	141.
%RSD	.437	1.34	.520	2.00	1.43	1.48	1.25	1.16	.431	1.42	1.16	1.53
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se2062	Tl2767	V_2924	Zn2138
Avg	**507.**	**497.**	**508.**	**511.**	**502.**	**2090.**	**2130.**	**509.**	**507.**
Stddev	7.	6.	5.	6.	4.	42.	53.	5.	6.
%RSD	1.43	1.21	1.06	1.19	.734	2.01	2.50	1.00	1.21
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**84295.**
Stddev	321.
%RSD	.38072

Sample Name: ICVLL Acquired: 10/21/2013 15:01:55 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**48.2**	**1200.**	**63.9**	**31.7**	**13.0**	**1640.**	**15.5**	**31.7**	**30.2**	**31.5**	**974.**	**1550.**
Stddev	1.2	48.	2.6	1.0	.5	61.	.5	.9	.2	.5	31.	53.
%RSD	2.58	4.00	4.02	3.16	3.93	3.70	3.26	2.84	.638	1.54	3.17	3.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**29.5**	**30.4**	**32.1**	**32.0**	**60.4**	**57.1**	**65.0**	**31.3**	**31.6**
Stddev	.6	1.1	.6	1.0	1.2	1.1	3.2	.5	1.1
%RSD	1.88	3.62	1.91	3.05	1.91	1.89	4.96	1.50	3.45
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**84634.**
Stddev	1088.
%RSD	1.2852

Sample Name: icb Acquired: 10/21/2013 15:09:34 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	.843	2.74	-1.05	-1.44	-.068	8.29	-1.12	-.071	-.637	.175	14.4	4.20
Stddev	.458	.30	2.59	.17	.026	.27	.04	.055	.054	.440	1.5	.06
%RSD	54.4	11.1	248.	12.1	38.8	3.28	3.10	77.2	8.53	251.	10.2	1.39
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	-1.03	-.615	.256	.302	1.52	-10.4	-.718	.177	.258
Stddev	.16	.330	.202	.650	1.43	2.3	1.92	.639	.291
%RSD	15.4	53.6	78.8	215.	94.1	21.8	268.	360.	113.
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	84203.
Stddev	497.
%RSD	.59025

Sample Name: icsa Acquired: 10/21/2013 15:17:19 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2343
Avg	.000	482000.	-.901	.000	.000	556000.	.000	-.137	.000	.000	437000.
Stddev	.674	23800.	5.04	.059	.169	28800.	.643	.363	.56	.358	16200.
%RSD	911e15	4.93	560.	282000.	261e15	5.19	6420000.	264.	901000.	96300.	3.70
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit											
Low Limit											

Elem	Mg2025	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	504000.	-.131	-.058	.002	.000	.000	.001	.000	.000	.001
Stddev	5220.	.891	.820	.543	1.64	4.43	1.81	2.76	.184	2.63
%RSD	1.04	679.	1400.	21900.	733000.	1380000.	349000.	5590000.	2400000.	457000.
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_3600
Avg	79851.
Stddev	223.
%RSD	.27975

Sample Name: icsab Acquired: 10/21/2013 15:21:31 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2343
Avg	**489.**	**481000.**	**525.**	**529.**	**500.**	**558000.**	**551.**	**543.**	**546.**	**500.**	**441000.**
Stddev	1.	15500.	15.	21.	15.	23000.	3.	19.	17.	21.	12400.
%RSD	.219	3.22	2.88	4.00	2.94	4.12	.549	3.49	3.14	4.25	2.81
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Mg2025	Mn2576	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl2767	V_2908	Zn2062
Avg	**502000.**	**495.**	**530.**	**509.**	**482.**	**474.**	**447.**	**573.**	**538.**	**425.**
Stddev	2480.	15.	3.	4.	34.	4.	16.	----	19.	2.
%RSD	.493	3.05	.659	.749	7.07	.801	3.56	188.	3.54	.450
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**80035.**
Stddev	536.
%RSD	.66988

Sample Name: ccv1 Acquired: 10/21/2013 23:50:10 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2395	Fe2599
Avg	**492.**	**4300.**	**4260.**	**4510.**	**452.**	**4540.**	**417.**	**4340.**	**4220.**	**4330.**	**4350.**	**4260.**
Stddev	7.	104.	45.	121.	14.	135.	5.	121.	116.	109.	118.	118.
%RSD	1.43	2.42	1.07	2.68	3.21	2.98	1.16	2.79	2.74	2.53	2.72	2.77
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2802	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062	Tl2767	Tl1908	V_2908
Avg	**4330.**	**4330.**	**4330.**	**4330.**	**4280.**	**4320.**	**4200.**	**4240.**	**4390.**	**4350.**	**4090.**	**4280.**
Stddev	121.	131.	53.	51.	44.	39.	37.	73.	68.	262.	39.	121.
%RSD	2.78	3.03	1.22	1.17	1.02	.896	.875	1.73	1.55	6.04	.953	2.82
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Zn2062
Avg	**4250.**
Stddev	48.
%RSD	1.14
Check ?	None
Value	
Range	

Sample Name: ccv1 Acquired: 10/21/2013 23:50:10 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_3600
Avg	87159.
Stddev	416.
%RSD	.47675

Sample Name: ccv2 Acquired: 10/21/2013 23:54:00 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**48.0**	**487.**	**484.**	**500.**	**48.3**	**489.**	**47.6**	**478.**	**470.**	**492.**	**482.**	**482.**
Stddev	.2	8.	6.	5.	.4	4.	.5	7.	2.	8.	.	4.
%RSD	.440	1.59	1.23	.936	.920	.807	1.09	1.43	.392	1.69	.073	.798
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**485.**	**485.**	**478.**	**479.**	**471.**	**496.**	**477.**	**474.**	**472.**
Stddev	4.	4.	6.	6.	5.	7.	4.	3.	8.
%RSD	.923	.900	1.23	1.27	1.13	1.33	.822	.692	1.65
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**86438.**
Stddev	657.
%RSD	.75978

Sample Name: ccb Acquired: 10/21/2013 23:57:28 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	.708	-1.36	-1.68	-1.24	-.070	-5.19	-1.15	.279	-.262	.435	.561	-.752
Stddev	.273	.15	1.27	.21	.031	.14	.12	.034	.276	.652	1.20	.208
%RSD	38.5	10.9	75.3	17.1	45.3	2.62	10.5	12.1	105.	150.	213.	27.6
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	-.740	1.77	.653	-.292	1.54	-7.83	2.64	.758	.147
Stddev	.327	.52	.357	1.58	.59	2.20	.24	.358	.143
%RSD	44.1	29.2	54.6	540.	38.7	28.1	9.25	47.3	97.5
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	85770.
Stddev	605.
%RSD	.70583

Sample Name: lcsw46498 Acquired: 10/22/2013 00:33:09 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	As1890	Ba4554	Ba4934	Be3130	Ca3179	Ca3933	Cd2265	Co2286	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**19.8**	**785.**	**836.**	**799.**	**858.**	**851.**	**20.0**	**201.**	**200.**	**19.1**	**201.**	**79.7**
Stddev	.2	10.	12.	9.	8.	8.	.2	54.	56.	.3	3.	.3
%RSD	.809	1.31	1.41	1.07	.875	.947	.925	26.6	27.8	1.65	1.29	.383

Elem	Cu2247	Fe2599	Mg2802	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Sb2175	Se1960	Se1960	Se2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**104.**	**433.**	**85.7**	**203.**	**4.61**	**202.**	**200.**	**210.**	**200.**	**768.**	**822.**	**818.**
Stddev	1.	5.	24.0	2.	1.10	1.	3.	1.	4.	2.	8.	39.
%RSD	1.26	1.24	28.0	1.04	23.9	.678	1.60	.652	2.06	.283	1.00	4.72

Elem	Tl2767	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L
Avg	**913.**	**787.**	**200.**	**197.**
Stddev	105.	8.	.	3.
%RSD	11.6	1.04	.060	1.48

Int. Std.	Y_3600
Units	Cts/S
Avg	**88751.**
Stddev	832.
%RSD	.93784

Sample Name: mbw46498 Acquired: 10/22/2013 00:36:52 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.479	-.535	-1.17	-.643	-.111	-.225	-1.31	-.094	-.737	.198	4.34	.681
Stddev	.438	.364	.40	.503	.050	.574	.09	.197	.578	.483	2.35	.142
%RSD	91.4	68.0	34.0	78.3	45.0	255.	6.66	209.	78.5	244.	54.0	20.9

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-1.19	.179	.438	.031	1.80	-6.19	6.20	.329	.577
Stddev	.38	.150	.436	1.28	1.51	1.09	1.53	.524	.110
%RSD	31.6	83.7	99.5	4080.	83.7	17.7	24.7	159.	19.1

Int. Std.	Y_3600
Units	Cts/S
Avg	88962.
Stddev	762.
%RSD	.85697

Sample Name: ccv1 Acquired: 10/22/2013 00:40:44 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2395	Fe2599
Avg	**459.**	**3990.**	**4050.**	**4190.**	**416.**	**4190.**	**398.**	**3990.**	**3960.**	**4040.**	**4040.**	**3990.**
Stddev	11.	153.	93.	148.	15.	168.	10.	132.	130.	151.	146.	137.
%RSD	2.40	3.83	2.29	3.55	3.58	4.00	2.46	3.31	3.28	3.74	3.61	3.44
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2802	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062	Tl2767	Tl1908	V_2908
Avg	**4000.**	**4000.**	**4150.**	**4110.**	**4060.**	**4120.**	**4000.**	**3900.**	**4160.**	**3990.**	**4000.**	**3940.**
Stddev	142.	152.	108.	105.	104.	100.	94.	73.	102.	165.	111.	149.
%RSD	3.55	3.80	2.61	2.55	2.57	2.42	2.34	1.89	2.44	4.14	2.78	3.77
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Zn2062
Avg	**4090.**
Stddev	108.
%RSD	2.65
Check ?	None
Value	
Range	

Sample Name: ccv1 Acquired: 10/22/2013 00:40:44 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_3600
Avg	88021.
Stddev	579.
%RSD	.65786

Sample Name: ccv2 Acquired: 10/22/2013 00:44:31 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**47.9**	**473.**	**477.**	**511.**	**49.4**	**496.**	**47.0**	**472.**	**469.**	**474.**	**491.**	**490.**
Stddev	1.3	16.	12.	11.	1.0	10.	1.4	13.	7.	15.	11.	11.
%RSD	2.64	3.33	2.58	2.21	1.97	2.05	2.89	2.81	1.41	3.11	2.18	2.25
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**493.**	**474.**	**476.**	**472.**	**461.**	**477.**	**474.**	**468.**	**455.**
Stddev	8.	14.	13.	12.	10.	10.	10.	8.	14.
%RSD	1.68	2.98	2.72	2.62	2.20	2.11	2.17	1.64	3.12
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**88765.**
Stddev	1164.
%RSD	1.3116

Sample Name: ccb Acquired: 10/22/2013 00:48:01 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	.933	-1.11	-.411	-1.12	.000	-5.18	-1.21	.162	-.378	.466	.511	-.630
Stddev	.445	.44	1.98	.16	.03	.09	.11	.070	.418	.362	3.94	.029
%RSD	47.7	39.8	482.	13.9	9970.	1.66	9.24	43.3	111.	77.8	772.	4.61
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	-.942	1.87	.658	.440	1.49	-6.93	.696	.949	.136
Stddev	.288	.03	.269	.841	1.59	3.24	2.53	.313	.045
%RSD	30.6	1.82	40.8	191.	107.	46.8	364.	33.0	33.1
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	88389.
Stddev	108.
%RSD	.12182

Sample Name: 381290 Acquired: 10/22/2013 00:51:55 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.05**	**1.76**	**-2.62**	**-1.69**	**-.101**	**38.3**	**-1.10**	**-.024**	**-.934**	**-.031**	**1.18**	**2.14**
Stddev	.53	.83	.30	.12	.047	.6	.03	.197	.355	.305	.47	.18
%RSD	50.3	47.2	11.4	7.26	46.5	1.50	2.38	813.	38.1	984.	39.9	8.32

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.12**	**-.213**	**.481**	**.563**	**-.480**	**-9.67**	**.134**	**.174**	**.406**
Stddev	.46	.216	.091	.628	1.13	1.31	.803	.701	.050
%RSD	40.8	102.	18.9	112.	237.	13.5	601.	402.	12.3

Int. Std.	Y_3600
Units	Cts/S
Avg	**89145.**
Stddev	431.
%RSD	.48388

Sample Name: I381290 Acquired: 10/22/2013 00:55:48 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.703	-1.29	-.579	-1.70	-.048	4.31	-1.13	.082	-.736	.230	-3.81	-.601
Stddev	.262	.47	.349	.18	.022	.83	.06	.243	.593	.360	1.62	.041
%RSD	37.3	36.7	60.3	10.5	45.7	19.3	4.93	296.	80.5	156.	42.4	6.85

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-1.31	-.897	.884	.645	.368	-10.7	1.94	.182	-.342
Stddev	.23	.132	.193	1.18	1.68	2.9	.65	.652	.064
%RSD	17.9	14.7	21.9	182.	456.	27.1	33.6	359.	18.7

Int. Std.	Y_3600
Units	Cts/S
Avg	90356.
Stddev	4176.
%RSD	4.6215

Sample Name: dup381290 Acquired: 10/22/2013 00:59:40 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.841	1.78	-.668	-1.33	-.055	40.5	-1.23	.135	-.764	.037	.004	2.31
Stddev	.264	.98	.829	.21	.166	1.4	.05	.052	.210	.389	2.07	.06
%RSD	31.4	55.1	124.	15.5	299.	3.35	3.84	38.4	27.5	1040.	49700.	2.62

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-1.06	-.747	.365	-.863	1.06	-8.95	.825	.163	.611
Stddev	.25	.286	.140	1.01	2.05	3.57	1.54	.419	.178
%RSD	23.4	38.3	38.5	117.	192.	39.9	187.	257.	29.1

Int. Std.	Y_3600
Units	Cts/S
Avg	87923.
Stddev	494.
%RSD	.56215

Sample Name: msw381290 Acquired: 10/22/2013 01:03:32 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	As1890	Ba4554	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**20.5**	**810.**	**844.**	**811.**	**878.**	**870.**	**20.7**	**41.0**	**19.5**	**205.**	**81.2**	**105.**
Stddev	.3	14.	9.	14.	12.	11.	.2	.7	.3	3.	.3	2.
%RSD	1.45	1.72	1.09	1.69	1.35	1.30	.778	1.80	1.43	1.26	.411	1.89

Elem	Fe2599	Mg2802	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Sb2175	Se1960	Se1960	Se2062	Tl2767
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**422.**	**2.21**	**210.**	**-1.06**	**206.**	**204.**	**213.**	**204.**	**792.**	**824.**	**825.**	**893.**
Stddev	4.	.21	3.	.09	3.	2.	4.	2.	31.	8.	13.	46.
%RSD	.907	9.40	1.48	7.96	1.40	1.09	1.68	.941	3.96	1.02	1.61	5.14

Elem	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L
Avg	**807.**	**205.**	**201.**
Stddev	10.	2.	3.
%RSD	1.20	.880	1.65

Int. Std.	Y_3600
Units	Cts/S
Avg	**87862.**
Stddev	710.
%RSD	.80820

Sample Name: msdw381290 Acquired: 10/22/2013 01:07:16 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	As1890	Ba4554	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**21.2**	**868.**	**869.**	**781.**	**883.**	**898.**	**20.2**	**39.4**	**19.0**	**204.**	**79.8**	**105.**
Stddev	.5	48.	45.	119.	28.	37.	.2	1.2	2.2	19.	3.7	9.
%RSD	2.43	5.48	5.12	15.2	3.16	4.13	1.08	2.95	11.7	9.44	4.65	9.00

Elem	Fe2599	Mg2802	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Sb2175	Se1960	Se1960	Se2062	Tl2767
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**407.**	**3.05**	**208.**	**-3.42**	**204.**	**216.**	**190.**	**212.**	**1450.**	**806.**	**678.**	**803.**
Stddev	3.	.37	6.	3.43	18.	7.	56.	9.	261.	108.	348.	158.
%RSD	.676	12.0	2.98	100.	8.69	3.41	29.3	4.11	18.0	13.4	51.3	19.7

Elem	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L
Avg	**816.**	**205.**	**201.**
Stddev	56.	8.	18.
%RSD	6.88	3.70	9.01

Int. Std.	Y_3600
Units	Cts/S
Avg	**83366.**
Stddev	2052.
%RSD	2.4612

Sample Name: pdsw381290 Acquired: 10/22/2013 01:10:51 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2265	Cd2288	Co2286	Co2388	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	102.	4850.	3970.	4440.	110.	449000.	91.2	109.	907.	1010.	385.
Stddev	2.	142.	39.	144.	5.	15600.	1.0	1.	8.	29.	.
%RSD	2.17	2.93	.979	3.25	4.59	3.47	1.09	.874	.839	2.92	.106

Elem	Cr2835	Cu2247	Cu3247	Fe2395	Fe2599	Mg2025	Mn2576	Mn2593	Mo2045	Ni2216	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	455.	466.	531.	2010.	2020.	189000.	1030.	632.	1740.	968.	901.
Stddev	9.	5.	14.	41.	46.	1770.	25.	27.	16.	13.	8.
%RSD	2.00	1.02	2.66	2.03	2.27	.938	2.43	4.30	.918	1.29	.848

Elem	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se2062	Tl2767	Tl1908	V_2908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	965.	880.	992.	971.	3870.	3890.	5560.	3300.	1020.	998.	895.
Stddev	6.	8.	5.	5.	54.	39.	851.	23.	25.	9.	10.
%RSD	.619	.890	.462	.484	1.39	1.000	15.3	.680	2.47	.870	1.08

Elem	Zn2138
Units	ug/L
Avg	950.
Stddev	11.
%RSD	1.13

Int. Std.	Y_3600
Units	Cts/S
Avg	84581.
Stddev	596.
%RSD	.70485

Sample Name: 381293 Acquired: 10/22/2013 01:14:36 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.459	2.22	1.99	-.579	-.020	125.	-1.17	.021	-.203	.452	6.24	41.8
Stddev	.391	.92	1.24	.289	.028	25.	.04	.042	.143	.534	1.75	11.9
%RSD	85.2	41.7	62.1	50.0	135.	20.2	3.71	203.	70.5	118.	28.0	28.5

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-1.21	2.86	.750	.016	.521	-2.54	-2.28	.431	.607
Stddev	.13	.90	.065	.299	1.91	3.19	1.07	.229	.246
%RSD	10.5	31.4	8.70	1840.	366.	125.	46.7	53.2	40.5

Int. Std.	Y_3600
Units	Cts/S
Avg	88996.
Stddev	784.
%RSD	.88049

Sample Name: ccv1 Acquired: 10/22/2013 01:30:17 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2343	Fe2395
Avg	**489.**	**4280.**	**4200.**	**4480.**	**452.**	**4520.**	**414.**	**4290.**	**4210.**	**4330.**	**4510.**	**4330.**
Stddev	4.	150.	37.	160.	15.	124.	4.	140.	113.	144.	115.	115.
%RSD	.728	3.51	.873	3.57	3.35	2.74	.918	3.27	2.67	3.32	2.55	2.65
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Fe2599	Mg2802	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062	Tl2767	Tl1908
Avg	**4250.**	**4300.**	**4290.**	**4300.**	**4280.**	**4220.**	**4260.**	**4140.**	**4150.**	**4310.**	**4460.**	**4120.**
Stddev	118.	127.	138.	40.	44.	34.	27.	26.	38.	47.	322.	29.
%RSD	2.78	2.96	3.21	.932	1.03	.793	.622	.638	.904	1.09	7.22	.705
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	V_2908	Zn2062
Avg	**4240.**	**4250.**
Stddev	124.	45.
%RSD	2.92	1.05
Check ?	None	None
Value		
Range		

Sample Name: ccv1 Acquired: 10/22/2013 01:30:17 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_3600
Avg	87252.
Stddev	179.
%RSD	.20516

Sample Name: ccv2 Acquired: 10/22/2013 01:34:07 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**48.2**	**482.**	**479.**	**493.**	**47.8**	**479.**	**47.4**	**475.**	**469.**	**488.**	**477.**	**479.**
Stddev	.1	10.	5.	6.	.4	6.	.8	9.	3.	11.	9.	7.
%RSD	.220	2.10	1.01	1.26	.860	1.19	1.59	1.85	.714	2.28	1.85	1.37
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**480.**	**482.**	**475.**	**476.**	**469.**	**483.**	**476.**	**470.**	**466.**
Stddev	5.	10.	8.	5.	8.	8.	3.	4.	10.
%RSD	.981	1.97	1.69	1.04	1.80	1.67	.588	.833	2.19
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**87043.**
Stddev	544.
%RSD	.62468

Sample Name: ccb Acquired: 10/22/2013 01:37:37 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	.936	-.382	-.741	-.929	.062	-5.03	-1.13	.292	-.360	.488	2.44	-.651
Stddev	.309	.640	1.95	.172	.066	.08	.05	.165	.343	.063	2.30	.054
%RSD	33.0	168.	264.	18.5	107.	1.51	4.51	56.5	95.3	12.8	94.3	8.34
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	-.530	2.37	.693	.420	1.02	-7.24	.724	.717	.189
Stddev	.141	.35	.375	1.84	.83	.87	1.48	.301	.070
%RSD	26.6	14.7	54.0	440.	81.4	12.0	204.	42.0	37.0
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

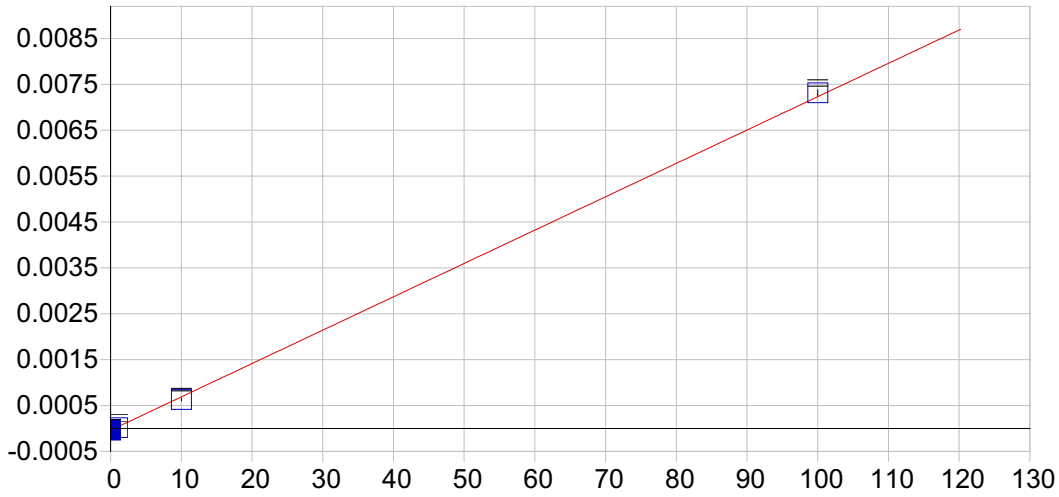
Int. Std.	Y_3600
Avg	88244.
Stddev	162.
%RSD	.18392

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
Ag 328.068 {103}	10/22/2013 08:52:15	10/21/2013 14:30:05	Linear	1/Conc	-0.000039	0.000073	0.000000	1.000000	0.999265	0.000001	0.751270	2.504232
Al 309.271 {109}	10/22/2013 08:52:15	10/21/2013 14:45:41	Curvilin	1/Conc	-0.001709	0.000004	0.000000	1.000000	0.999995	0.000009	20.787664	69.292214
Al 396.152 { 85}	10/22/2013 08:52:15	10/21/2013 14:54:07	Curvilin	1/Conc	-0.000112	0.000009	0.000000	1.000000	0.999985	0.000302	10.228443	34.094809
Al 167.079 {502}	10/22/2013 08:52:15	10/21/2013 14:33:25	Linear	None	0.000038	0.000004	0.000000	1.000000	0.999992	0.000009	0.852024	2.840079
As 193.759 {474}	10/22/2013 08:52:15	10/21/2013 14:33:25	Linear	None	0.000008	0.000002	0.000000	1.000000	0.999991	0.000005	2.933852	9.779507
As 189.042 {479}	10/22/2013 08:52:15	10/21/2013 14:41:44	Curvilin	1/Conc	0.000002	0.000001	0.000000	1.000000	0.999998	0.000000	7.438489	24.794964
Ba 455.403 { 74}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	None	0.001022	0.000506	0.000000	1.000000	1.000000	0.000757	0.231781	0.772605
Ba 493.409 { 68}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	None	-0.004579	0.000457	0.000000	1.000000	1.000000	0.001638	0.546403	1.821344
Be 313.042 {108}	10/22/2013 08:52:15	10/21/2013 14:30:05	Linear	None	0.000055	0.000244	0.000000	1.000000	0.999990	0.000047	0.127027	0.423424
Be 234.861 {144}	10/22/2013 08:52:15	10/21/2013 14:33:25	Linear	1/Conc	0.000003	0.000019	0.000000	1.000000	0.999996	0.000001	0.750740	2.502466
Ca 317.933 {106}	10/22/2013 08:52:15	10/21/2013 14:54:07	Curvilin	1/Conc	0.010269	0.000009	-0.000000	1.000000	0.999406	0.000440	3.650608	12.168695
Ca 393.366 { 86}	10/22/2013 08:52:15	10/21/2013 14:33:25	Linear	None	0.008493	0.000898	0.000000	1.000000	0.999922	0.006538	0.074711	0.249037
Ca 396.847 { 85}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	None	0.003536	0.000485	0.000000	1.000000	0.999999	0.003422	0.111332	0.371106
Cd 226.502 {449}	10/22/2013 08:52:15	10/21/2013 14:33:25	Linear	None	0.000080	0.000085	0.000000	1.000000	0.999989	0.000153	0.149923	0.499742
Cd 228.802 {447}	10/22/2013 08:52:15	10/21/2013 14:33:25	Linear	1/Conc	0.000033	0.000138	0.000000	1.000000	0.999958	0.000023	0.120519	0.401731
Co 228.616 {447}	10/22/2013 08:52:15	10/21/2013 14:33:25	Linear	1/Conc	0.000002	0.000051	0.000000	1.000000	0.999889	0.000002	0.266504	0.888347
Co 238.892 {141}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	0.000039	0.000004	0.000000	1.000000	0.999953	0.000008	5.005645	16.685484
Cr 267.716 {126}	10/22/2013 08:52:15	10/21/2013 14:33:25	Linear	None	0.000027	0.000088	0.000000	1.000000	0.999998	0.000077	0.605987	2.019955
Cr 283.563 {119}	10/22/2013 08:52:15	10/21/2013 14:41:44	Linear	None	-0.001031	0.000017	0.000000	1.000000	0.999997	0.002034	1.926353	6.421177
Cu 224.700 {450}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	-0.000012	0.000016	0.000000	1.000000	0.999897	0.000002	0.797937	2.659790
Cu 324.754 {104}	10/22/2013 08:52:15	10/21/2013 14:41:44	Curvilin	1/Conc	0.001277	0.000023	0.000000	1.000000	0.999997	0.000010	2.335076	7.783585
Cu 327.396 {103}	10/22/2013 08:52:15	10/21/2013 14:41:44	Linear	1/Conc	-0.000136	0.000002	0.000000	1.000000	0.998669	0.000006	29.679525	98.931748
Fe 234.349 {144}	10/22/2013 08:52:15	10/21/2013 14:54:07	Full Fit	1/Conc	0.000013	0.000001	0.000000	1.010000	0.999993	0.000007	11.453850	38.179500
Fe 239.562 {141}	10/22/2013 08:52:15	10/21/2013 14:45:41	Linear	None	0.000139	0.000002	0.000000	1.000000	0.999998	0.000243	6.063066	20.210219
Fe 259.940 {130}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	None	0.000033	0.000008	0.000000	1.000000	0.999991	0.000145	3.097974	10.326580
Mg 202.582 {466}	10/22/2013 08:52:15	10/21/2013 14:54:07	Full Fit	1/Conc	-0.000058	0.000008	-0.000000	0.940000	0.999974	0.000189	1.225627	4.085422
Mg 279.079 {121}	10/22/2013 08:52:15	10/21/2013 14:54:07	Linear	1/Conc	0.000004	0.000000	0.000000	1.000000	0.999914	0.000025	39.302296	131.007653
Mg 280.270 {120}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	None	0.000457	0.000110	0.000000	1.000000	1.000000	0.000255	0.156215	0.520717
Mn 257.610 {131}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	None	0.000049	0.000038	0.000000	1.000000	0.999996	0.000041	0.449832	1.499439
Mn 259.373 {130}	10/22/2013 08:52:15	10/21/2013 14:41:44	Linear	None	0.007360	0.000049	0.000000	1.000000	0.999991	0.012640	0.585772	1.952574
Mo 203.844 {465}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	1/Conc	0.000014	0.000017	0.000000	1.000000	0.999790	0.000000	0.600447	2.001490
Mo 202.030 {467}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	None	0.000023	0.000014	0.000000	1.000000	0.999998	0.000012	0.500512	1.668373
Mo 204.598 {465}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	None	0.000032	0.000007	0.000000	1.000000	1.000000	0.000036	1.009798	3.365994
Ni 221.647 {452}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	None	0.000442	0.000032	0.000000	1.000000	0.999994	0.000673	0.489158	1.630528
Ni 231.604 {445}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	1/Conc	-0.000054	0.000037	0.000000	1.000000	0.999681	0.000003	0.569068	1.896894
Pb 216.999 {455}	10/22/2013 08:52:15	10/21/2013 14:41:44	Curvilin	1/Conc	0.000012	0.000003	0.000000	1.000000	0.999986	0.000003	4.125054	13.750178
Pb 220.353 {453}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	1/Conc	0.000007	0.000008	0.000000	1.000000	0.999903	0.000000	1.631813	5.439375
Sb 206.833 {463}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	-0.000002	0.000004	0.000000	1.000000	0.999952	0.000001	2.223921	7.413070
Sb 217.581 {455}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	1/Conc	-0.000020	0.000004	0.000000	1.000000	0.998961	0.000001	3.018554	10.061847
Se 196.090 {172}	10/22/2013 08:52:15	10/21/2013 14:37:36	Curvilin	1/Conc	0.000020	0.000001	-0.000000	1.000000	0.999684	0.000000	12.417225	41.390749
Se 196.090 {472}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	None	0.000028	0.000002	0.000000	1.000000	0.999991	0.000047	3.286910	10.956368
Se 206.279 {463}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	-0.000007	0.000000	0.000000	1.000000	0.999950	0.000001	27.364770	91.215900
Tl 276.787 {122}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	None	0.000002	0.000000	0.000000	1.000000	0.999968	0.000016	122.436933	408.123110
Tl 190.856 {477}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	1/Conc	-0.000003	0.000002	0.000000	1.000000	0.999220	0.000000	2.741669	9.138896

	Element, Wavelength and Order	Status	Reslope		QC Norm	
			Slope	Y-int	Slope factor	Offset
	Ag 328.068 {103}	OK.	1.000000	0.000000	1	0
	Al 309.271 {109}	OK.	1.000000	0.000000	1	0
	Al 396.152 { 85}	OK.	1.000000	0.000000	1	0
	Al 167.079 {502}	OK.	1.000000	0.000000	1	0
	As 193.759 {474}	OK.	1.000000	0.000000	1	0
	As 189.042 {479}	OK.	1.000000	0.000000	1	0
	Ba 455.403 { 74}	OK.	1.000000	0.000000	1	0
	Ba 493.409 { 68}	OK.	1.000000	0.000000	1	0
	Be 313.042 {108}	OK.	1.000000	0.000000	1	0
	Be 234.861 {144}	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	OK.	1.000000	0.000000	1	0
	Ca 393.366 { 86}	OK.	1.000000	0.000000	1	0
	Ca 396.847 { 85}	OK.	1.000000	0.000000	1	0
	Cd 226.502 {449}	OK.	1.000000	0.000000	1	0
	Cd 228.802 {447}	OK.	1.000000	0.000000	1	0
	Co 228.616 {447}	OK.	1.000000	0.000000	1	0
	Co 238.892 {141}	OK.	1.000000	0.000000	1	0
	Cr 267.716 {126}	OK.	1.000000	0.000000	1	0
	Cr 283.563 {119}	OK.	1.000000	0.000000	1	0
	Cu 224.700 {450}	OK.	1.000000	0.000000	1	0
	Cu 324.754 {104}	Warnin	1.000000	0.000000	1	0
	Cu 327.396 {103}	OK.	1.000000	0.000000	1	0
	Fe 234.349 {144}	OK.	1.000000	0.000000	1	0
	Fe 239.562 {141}	OK.	1.000000	0.000000	1	0
	Fe 259.940 {130}	OK.	1.000000	0.000000	1	0
	Mg 202.582 {466}	OK.	1.000000	0.000000	1	0
	Mg 279.079 {121}	OK.	1.000000	0.000000	1	0
	Mg 280.270 {120}	OK.	1.000000	0.000000	1	0
	Mn 257.610 {131}	OK.	1.000000	0.000000	1	0
	Mn 259.373 {130}	OK.	1.000000	0.000000	1	0
	Mo 203.844 {465}	OK.	1.000000	0.000000	1	0
	Mo 202.030 {467}	OK.	1.000000	0.000000	1	0
	Mo 204.598 {465}	OK.	1.000000	0.000000	1	0
	Ni 221.647 {452}	OK.	1.000000	0.000000	1	0
	Ni 231.604 {445}	OK.	1.000000	0.000000	1	0
	Pb 216.999 {455}	OK.	1.000000	0.000000	1	0
	Pb 220.353 {453}	OK.	1.000000	0.000000	1	0
	Sb 206.833 {463}	OK.	1.000000	0.000000	1	0
	Sb 217.581 {455}	OK.	1.000000	0.000000	1	0
	Se 196.090 {172}	OK.	1.000000	0.000000	1	0
	Se 196.090 {472}	OK.	1.000000	0.000000	1	0
	Se 206.279 {463}	OK.	1.000000	0.000000	1	0
	Tl 276.787 {122}	OK.	1.000000	0.000000	1	0
	Tl 190.856 {477}	OK.	1.000000	0.000000	1	0

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
	V 290.882 {116}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	-0.000045	0.000010	0.000000	1.000000	0.999952	0.000017	4.896160	16.320534
	V 292.402 {115}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	1/Conc	0.000014	0.000124	0.000000	1.000000	0.999892	0.000008	0.711690	2.372299
	Zn 206.200 {463}	10/22/2013 08:52:15	10/21/2013 14:41:44	Full Fit	None	0.000101	0.000049	-0.000000	0.990000	1.000000	0.000000	0.202327	0.674423
	Zn 213.856 {458}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	1/Conc	0.000032	0.000037	0.000000	1.000000	0.999776	0.000003	0.208341	0.694470
	Y 360.073 { 94}*	10/22/2013 08:52:15	10/21/2013 13:59:44	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
	Na 330.298 {102}	10/22/2013 08:52:15	10/21/2013 14:41:44	Linear	1/Conc	-0.000002	0.000000	0.000000	1.000000	1.000000	0.000000	461.592582	1538.64194
	Si 251.611 {134}	10/22/2013 08:52:15	10/21/2013 14:33:26	Linear	None	0.000130	0.000000	0.000000	1.000000	1.000000	0.000000	406.783135	1355.94378
	Ti 334.941 {101}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	0.000040	0.000029	0.000000	1.000000	0.999902	0.000002	1.376795	4.589317
	Ti 337.280 {100}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	-0.000102	0.000036	0.000000	1.000000	0.999884	0.000002	1.572133	5.240442
	Sr 407.771 { 83}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	-0.003630	0.000773	0.000000	1.000000	0.999983	0.000018	0.104756	0.349186
	Sr 421.552 { 80}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	-0.000524	0.000716	0.000000	1.000000	0.999981	0.000017	0.127499	0.424995
	Sn 189.989 {477}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	0.000001	0.000007	0.000000	1.000000	0.999888	0.000001	0.894786	2.982619
	Sn 283.999 {119}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	-0.000019	0.000001	0.000000	1.000000	0.999979	0.000000	40.197105	133.990350
	B 249.773 {135}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	0.000005	0.000008	0.000000	1.000000	0.999895	0.000002	2.652021	8.840071
	Li 670.784 { 50}	10/22/2013 08:52:15	10/21/2013 14:37:36	Linear	1/Conc	0.000083	0.000162	0.000000	1.000000	0.999915	0.000029	1.045958	3.486526

	Element, Wavelength and Order	Status	Reslope		QC Norm	
			Slope	Y-int	Slope factor	Offset
	V 290.882 {116}	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	OK.	1.000000	0.000000	1	0
	Zn 206.200 {463}	OK.	1.000000	0.000000	1	0
	Zn 213.856 {458}	OK.	1.000000	0.000000	1	0
	Y 360.073 { 94}*	Warnin	1.000000	0.000000	1	0
	Na 330.298 {102}	OK.	1.000000	0.000000	1	0
	Si 251.611 {134}	OK.	1.000000	0.000000	1	0
	Ti 334.941 {101}	OK.	1.000000	0.000000	1	0
	Ti 337.280 {100}	OK.	1.000000	0.000000	1	0
	Sr 407.771 { 83}	OK.	1.000000	0.000000	1	0
	Sr 421.552 { 80}	OK.	1.000000	0.000000	1	0
	Sn 189.989 {477}	OK.	1.000000	0.000000	1	0
	Sn 283.999 {119}	OK.	1.000000	0.000000	1	0
	B 249.773 {135}	OK.	1.000000	0.000000	1	0
	Li 670.784 { 50}	OK.	1.000000	0.000000	1	0

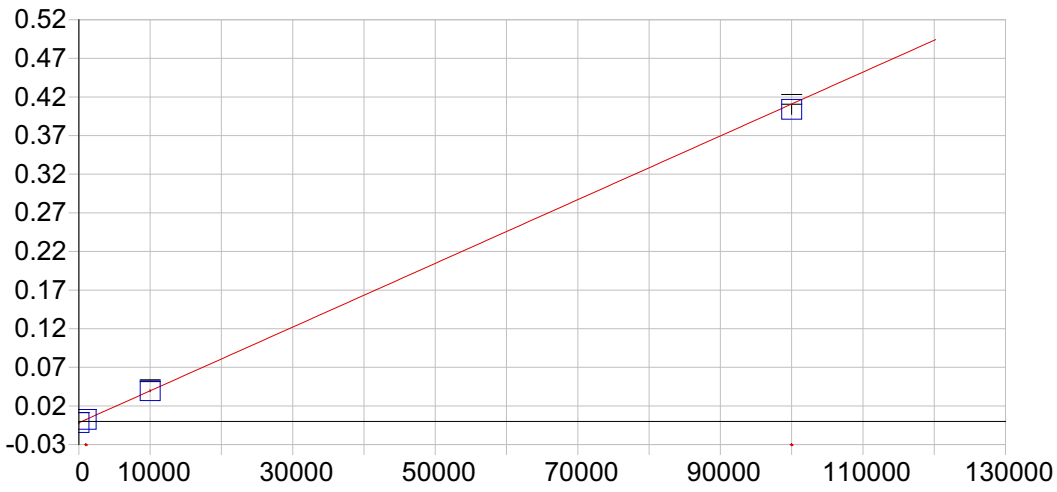


Ag 328.068 {103}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000039	Re-Slope:	1.000000
A1 (Gain):	0.000073	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999265	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.751270		
Predicted MQL:	2.504232		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00036	.000	.000	-.00004	.000	1
CalibStd=10	10.000	9.1717	-.828	-8.28	.00063	.000	1
CalibStd=1	1.0000	.71321	-.287	-28.7	.00001	.000	1
CalibStd=100	100.00	101.12	1.12	1.12	.00731	.000	1

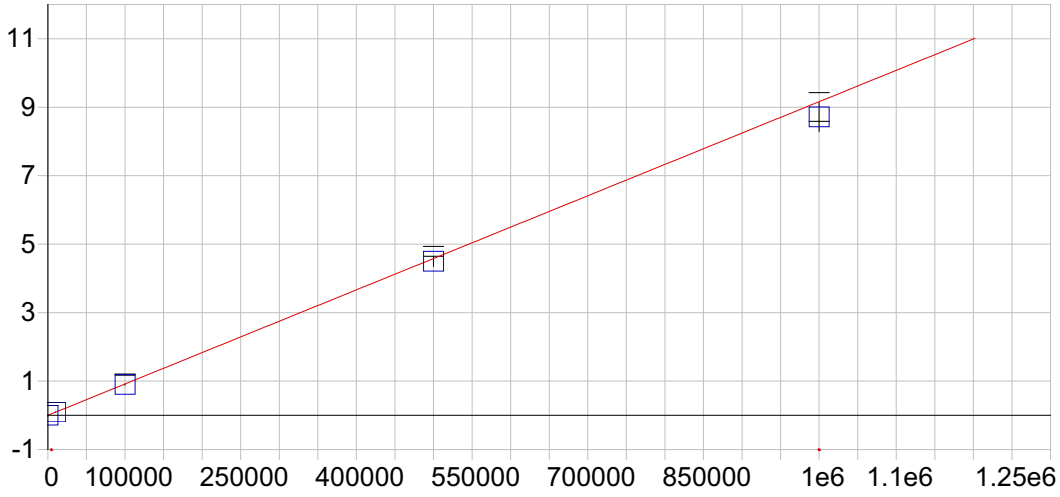


Al 309.271 {109}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	-0.001709	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	20.787664		
Predicted MQL:	69.292214		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.02815	.028	.000	-.00171	.000	1
CalibStd=100	10000.	10018.	17.8	.178	.03963	.001	1
CalibStd=100	1000.0	968.24	-31.8	-3.18	.00229	.000	1
CalibStd-100	100000.	98303.	-1700.	-1.70	.40389	.006	1

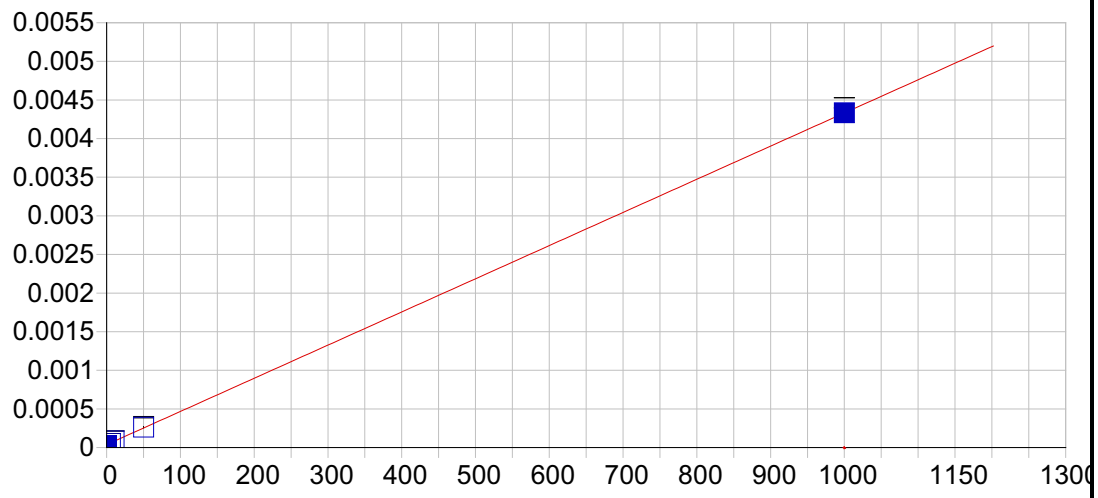


Al 396.152 { 85}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	-0.000112	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000302		
Predicted MDL:	10.228443		
Predicted MQL:	34.094809		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.06790	.068	.000	-.00011	.000	1
CalibStd-100	1000000.	951160.	-48800.	-4.88	8.7138	.421	1
CalibStd=500	500000.	490910.	-9090.	-1.82	4.4973	.143	1
CalibStd=100	10000.	10045.	45.1	.451	.09192	.002	1
CalibStd-100	100000.	97909.	-2090.	-2.09	.89687	.015	1

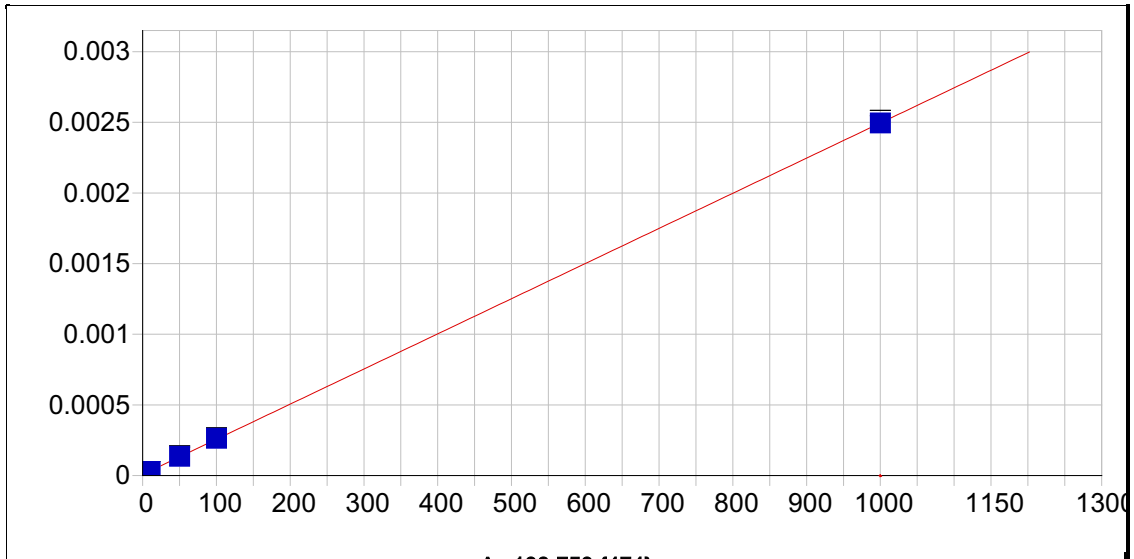


Al 167.079 {502}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000038	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	0.852024		
Predicted MQL:	2.840079		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-2.2800	-2.28	.000	.00003	.000	1
CalibStd=100	1000.0	999.88	-.123	-.012	.00433	.000	1
CalibStd=10	10.000	10.801	.801	8.01	.00008	.000	1
CalibStd=5	5.0000	4.2224	-.778	-15.6	.00006	.000	1
CalibStd=50	50.000	52.379	2.38	4.76	.00026	.000	1

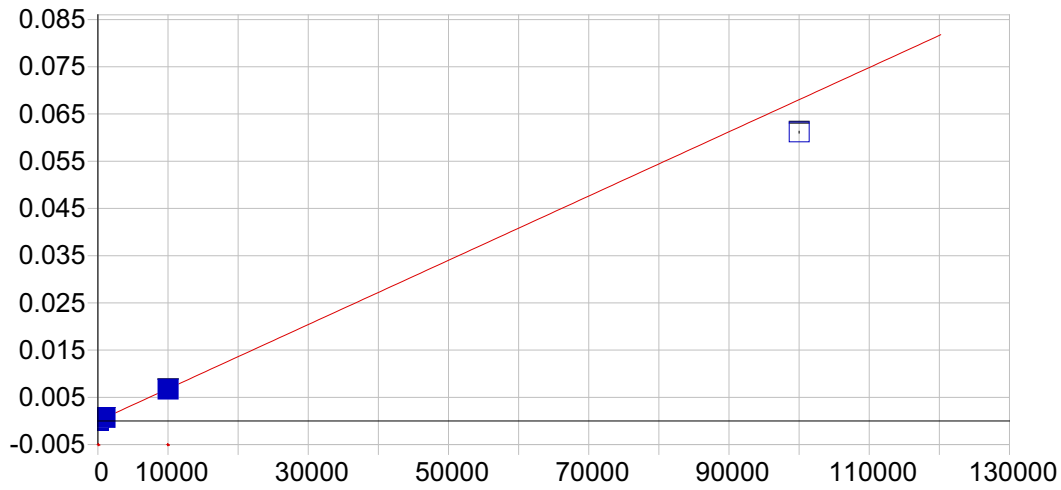


As 193.759 {474}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000008	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	2.933852		
Predicted MQL:	9.779507		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.2922	-1.29	.000	.00000	.000	1
CalibStd=100	1000.0	999.71	-.288	-.029	.00249	.000	1
CalibStd=50	50.000	51.108	1.11	2.22	.00013	.000	1
CalibStd=10	10.000	7.9423	-2.06	-20.6	.00003	.000	1
CalibStd=100	100.00	102.53	2.53	2.53	.00026	.000	1

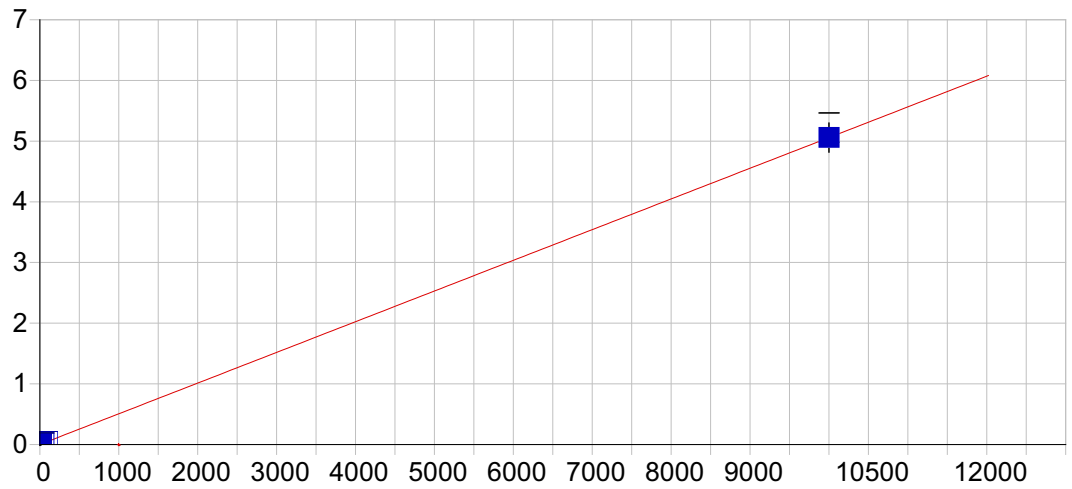


As 189.042 {479}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	7.438489		
Predicted MQL:	24.794964		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00559	-.006	.000	.00000	.000	1
CalibStd=100	1000.0	1012.6	12.6	1.26	.00069	.000	1
CalibStd=100	10000.	9879.1	-121.	-1.21	.00672	.000	1
CalibStd=100	100.00	104.42	4.42	4.42	.00007	.000	1
CalibStd-100	100000.	89898.	-10100.	-10.1	.06116	.000	1

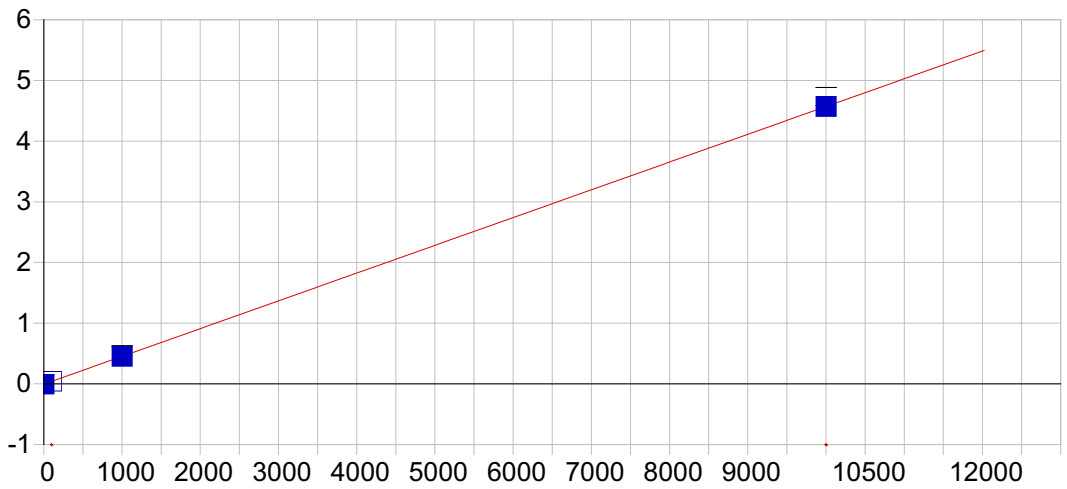


Ba 455.403 { 74}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.001022	Re-Slope:	1.000000
A1 (Gain):	0.000506	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000757		
Predicted MDL:	0.231781		
Predicted MQL:	0.772605		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.5682	-1.57	.000	.00023	.000	1
CalibStd=50	50.000	50.459	.459	.918	.02654	.000	1
CalibStd=10	10.000	9.2474	-.753	-7.53	.00570	.000	1
CalibStd=20	20.000	20.619	.619	3.10	.01145	.000	1
CalibStd=100	100.00	102.47	2.47	2.47	.05285	.001	1
CalibStd=5	5.0000	3.7949	-1.21	-24.1	.00294	.000	1
CalibStd=100	10000.	10000.0	-.027	.000	5.0585	.241	1

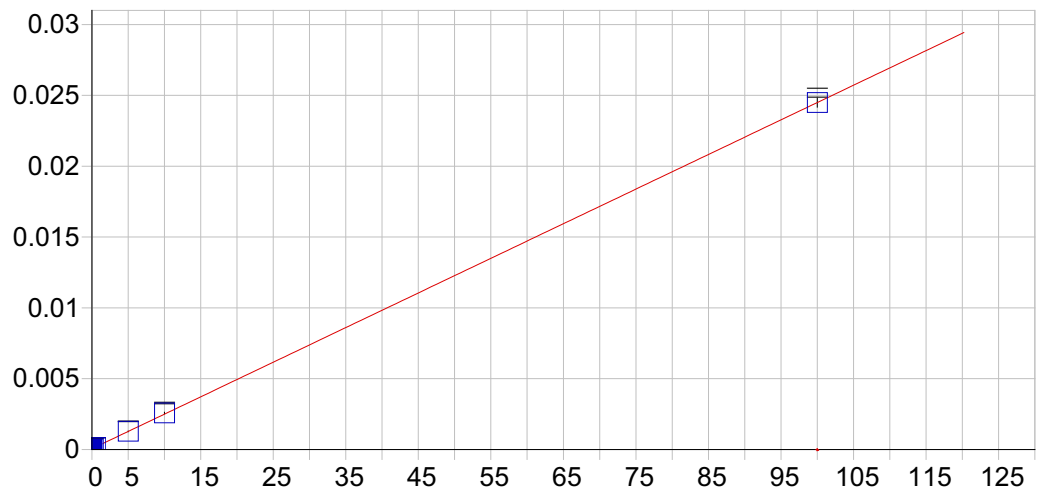


Ba 493.409 { 68}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.004579	Re-Slope:	1.000000
A1 (Gain):	0.000457	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.001638		
Predicted MDL:	0.546403		
Predicted MQL:	1.821344		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.54978	.550	.000	-.00433	.000	1
CalibStd=100	1000.0	996.02	-3.98	-.398	.45107	.011	1
CalibStd=100	10000.	10000.	.367	.004	4.5703	.148	1
CalibStd=100	100.00	103.06	3.06	3.06	.04257	.001	1

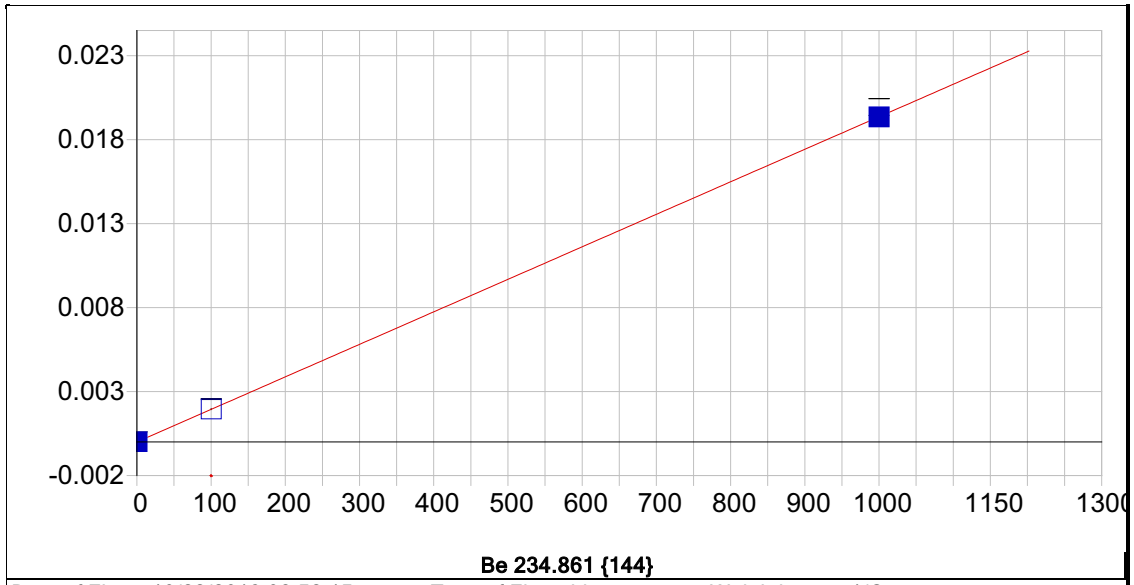


Be 313.042 {108}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000055	Re-Slope:	1.000000
A1 (Gain):	0.000244	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999990	Status:	OK.
Std Error of Est:	0.000047		
Predicted MDL:	0.127027		
Predicted MQL:	0.423424		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.09349	-.093	.000	.00003	.000	1
CalibStd=10	10.000	10.327	.327	3.27	.00258	.000	1
CalibStd=100	100.00	99.967	-.033	-.033	.02449	.000	1
CalibStd=0.5	.50000	.32550	-.175	-34.9	.00014	.000	1
CalibStd=5	5.0000	5.0254	.025	.508	.00128	.000	1
CalibStd=0.2	.25000	.19880	-.051	-20.5	.00010	.000	1

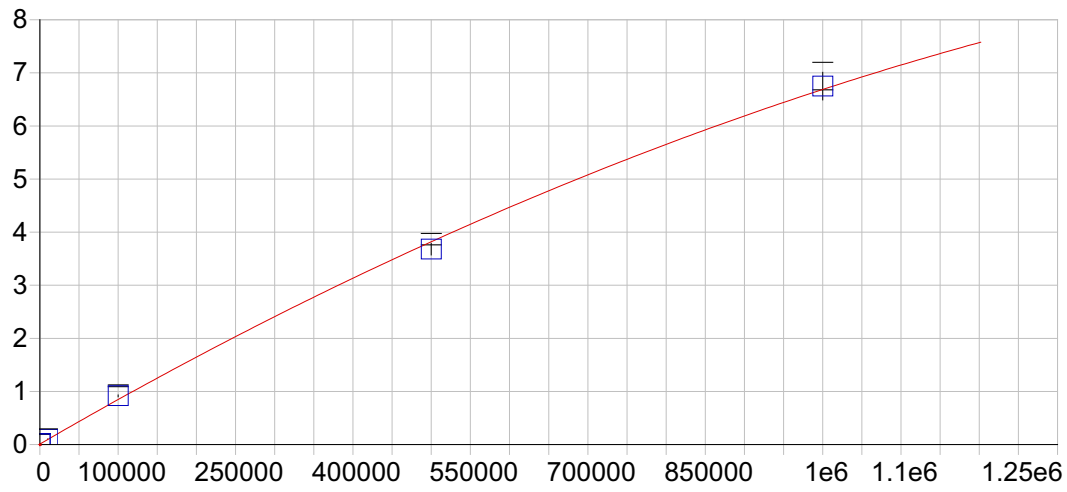


Be 234.861 {144}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000019	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.750740		
Predicted MQL:	2.502466		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00085	-.001	.000	.00000	.000	1
CalibStd=100	1000.0	999.06	-.940	-.094	.01934	.001	1
CalibStd=100	100.00	100.94	.940	.940	.00196	.000	1

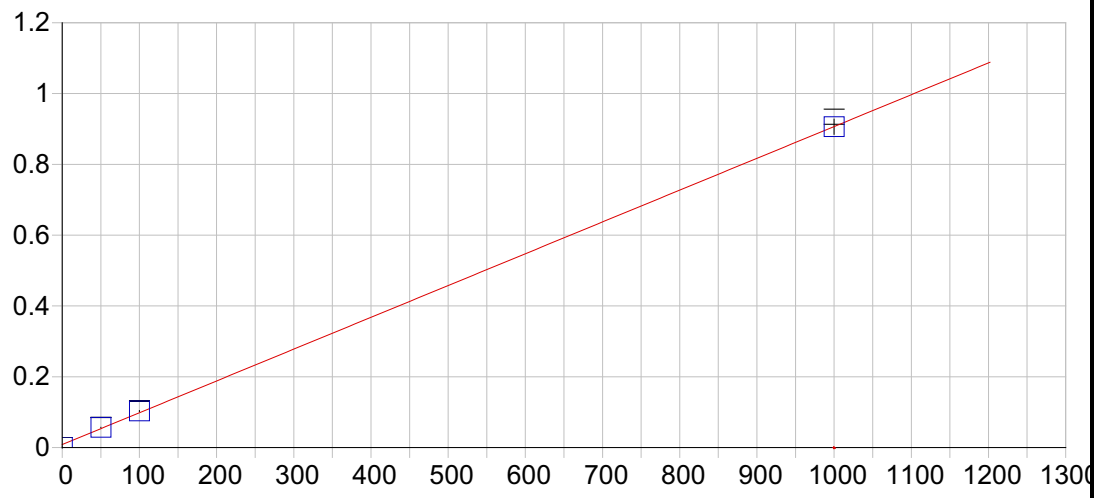


Ca 317.933 {106}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.010269	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	0.999406	Status:	OK.
Std Error of Est:	0.000440		
Predicted MDL:	3.650608		
Predicted MQL:	12.168695		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.17611	-.176	.000	.01027	.000	1
CalibStd=100	10000.	10719.	719.	7.19	.10180	.003	1
CalibStd=500	500000.	479170.	-20800.	-4.17	3.6795	.109	1
CalibStd-100	1000000.	1013200.	13200.	1.32	6.7497	.260	1
CalibStd=100	1000.0	1047.5	47.5	4.75	.01923	.000	1
CalibStd-100	100000.	108640.	8640.	8.64	.91797	.017	1

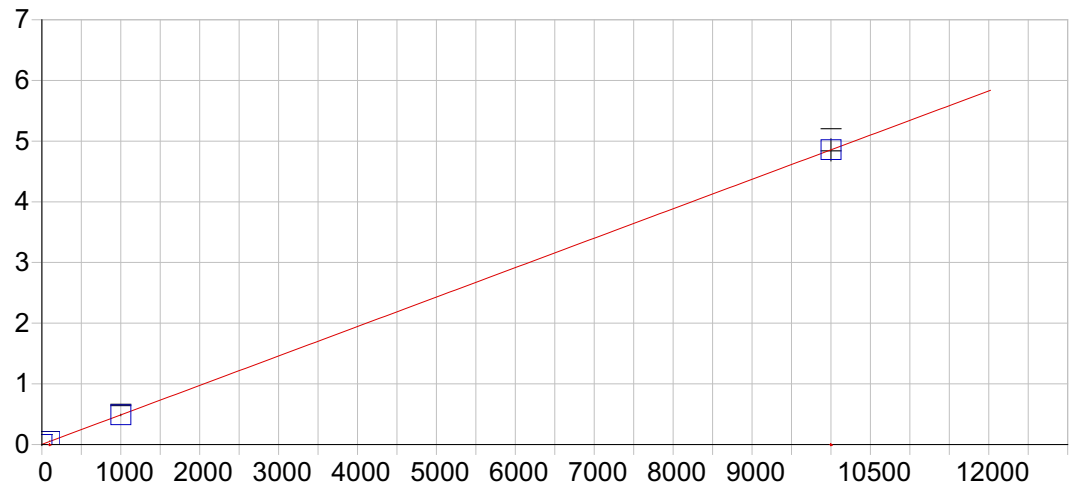


Ca 393.366 { 86}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.008493	Re-Slope:	1.000000
A1 (Gain):	0.000898	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999922	Status:	OK.
Std Error of Est:	0.006538		
Predicted MDL:	0.074711		
Predicted MQL:	0.249037		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-8.1075	-8.11	.000	.00121	.000	1
CalibStd=50	50.000	53.702	3.70	7.40	.05674	.001	1
CalibStd=100	1000.0	999.30	-.695	-.070	.90623	.021	1
CalibStd=100	100.00	105.10	5.10	5.10	.10291	.001	1

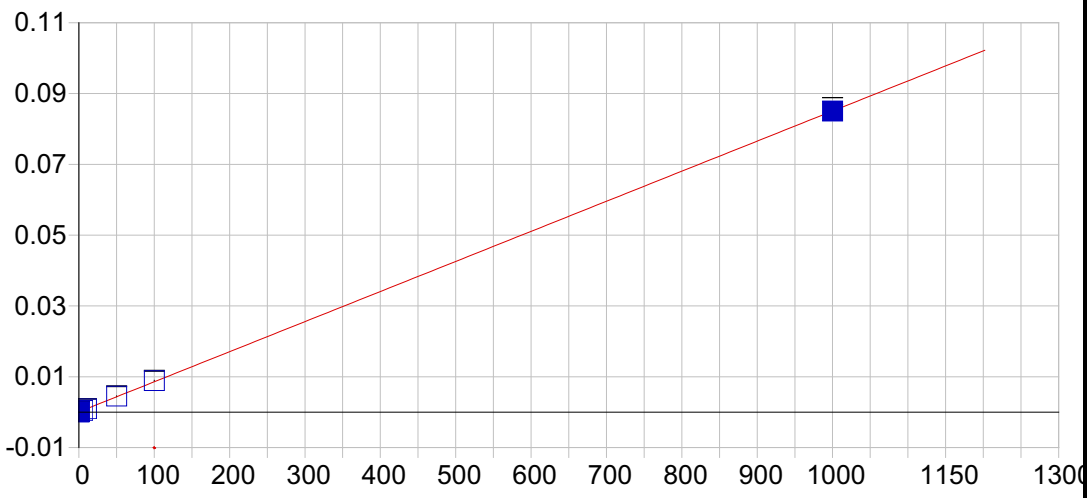


Ca 396.847 { 85}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.003536	Re-Slope:	1.000000
A1 (Gain):	0.000485	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.003422		
Predicted MDL:	0.111332		
Predicted MQL:	0.371106		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-6.0570	-6.06	.000	.00060	.000	1
CalibStd=100	10000.	10000.	.099	.001	4.8565	.183	1
CalibStd=100	100.00	107.72	7.72	7.72	.05581	.001	1
CalibStd=100	1000.0	998.24	-1.76	-.176	.48797	.012	1

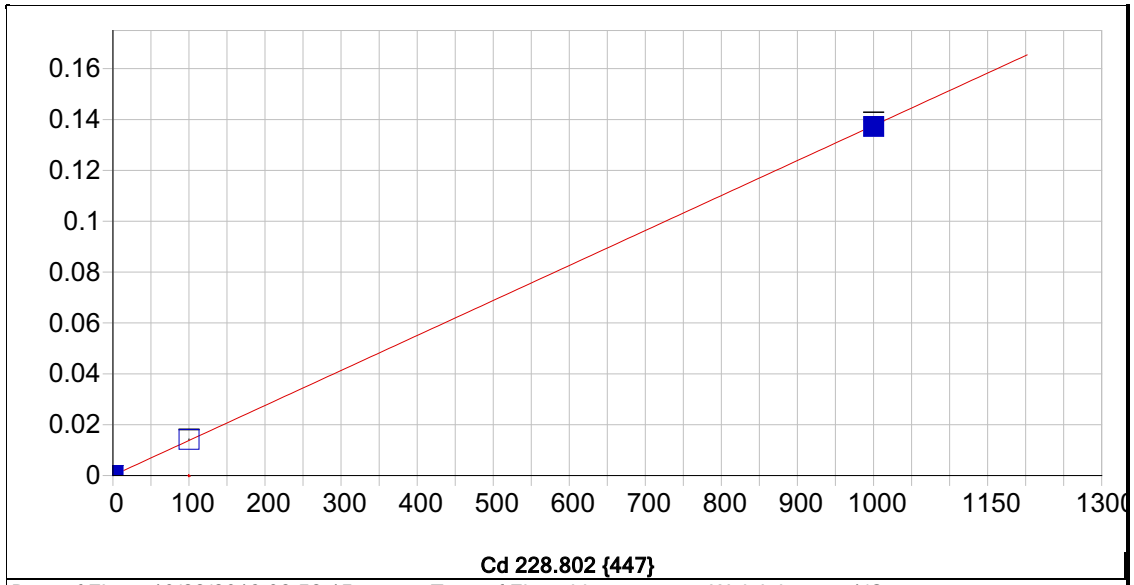


Cd 226.502 {449}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000080	Re-Slope:	1.000000
A1 (Gain):	0.000085	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000153		
Predicted MDL:	0.149923		
Predicted MQL:	0.499742		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.1667	-1.17	.000	-.00002	.000	1
CalibStd=50	50.000	51.906	1.91	3.81	.00449	.000	1
CalibStd=1	1.0000	-.23021	-1.23	-123.	.00006	.000	1
CalibStd=0.5	.50000	-.59525	-1.10	-219.	.00003	.000	1
CalibStd=5	5.0000	4.1414	-.859	-17.2	.00043	.000	1
CalibStd=100	100.00	103.25	3.25	3.25	.00885	.000	1
CalibStd=10	10.000	9.6057	-.394	-3.94	.00090	.000	1
CalibStd=100	1000.0	999.59	-.410	-.041	.08504	.001	1

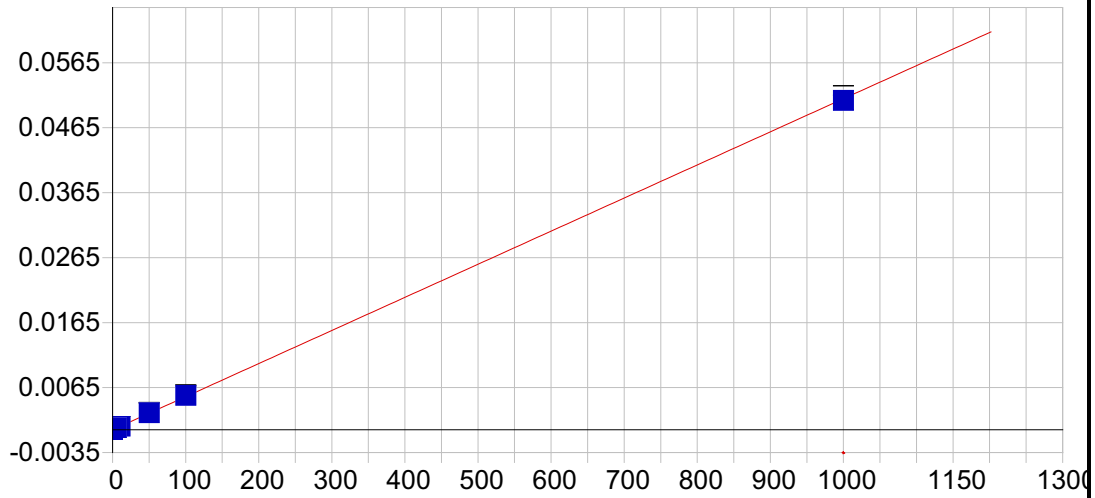


Cd 228.802 {447}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000033	Re-Slope:	1.000000
A1 (Gain):	0.000138	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999958	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.120519		
Predicted MQL:	0.401731		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00261	-.003	.000	.00003	.000	1
CalibStd=100	1000.0	997.10	-2.90	-.290	.13720	.002	1
CalibStd=100	100.00	102.90	2.90	2.90	.01419	.000	1

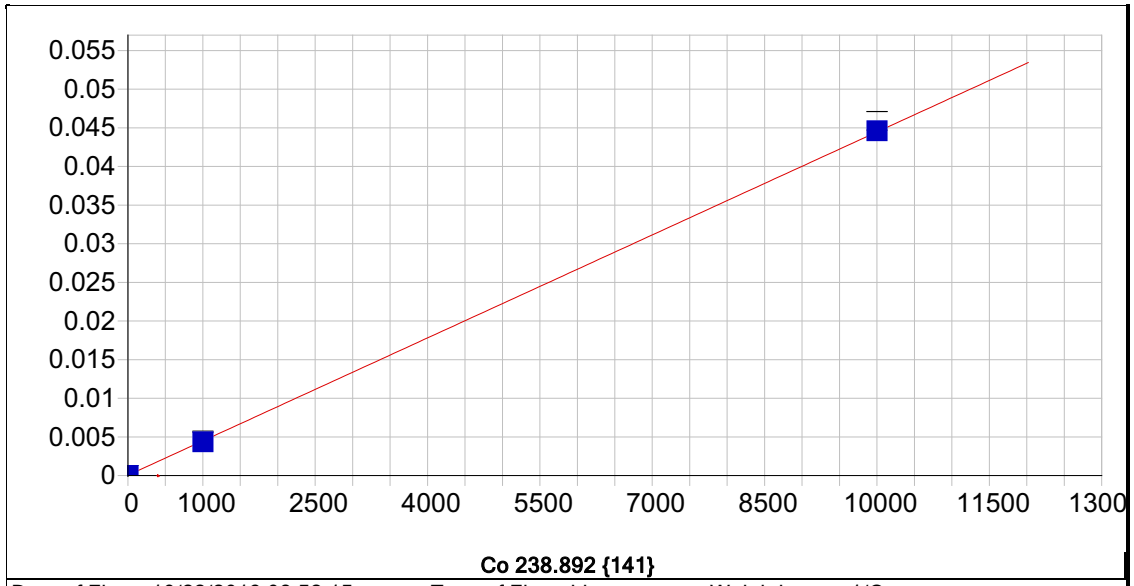


Co 228.616 {447}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000051	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999889	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.266504		
Predicted MQL:	0.888347		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00095	-.001	.000	.00000	.000	1
CalibStd=50	50.000	51.224	1.22	2.45	.00261	.000	1
CalibStd=10	10.000	10.736	.736	7.36	.00055	.000	1
CalibStd=5	5.0000	5.3155	.316	6.31	.00027	.000	1
CalibStd=100	100.00	103.49	3.49	3.49	.00528	.000	1
CalibStd=100	1000.0	994.23	-5.77	-.577	.05072	.001	1

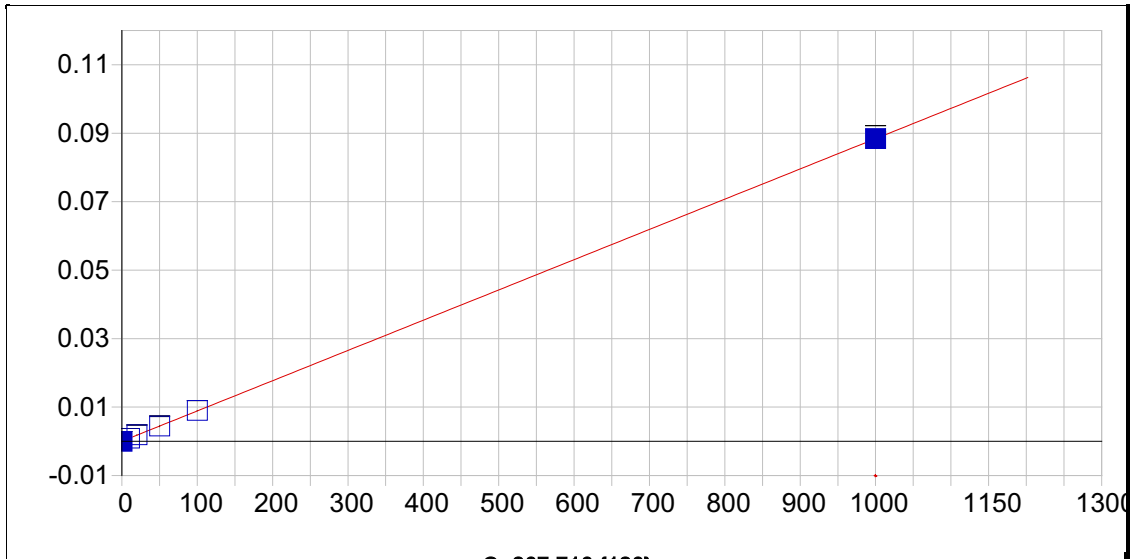


Co 238.892 {141}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000039	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999953	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	5.005645		
Predicted MQL:	16.685484		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.02747	.027	.000	.00004	.000	1
CalibStd=100	1000.0	969.48	-30.5	-3.05	.00435	.000	1
CalibStd=100	10000.	10031.	30.5	.305	.04461	.001	1

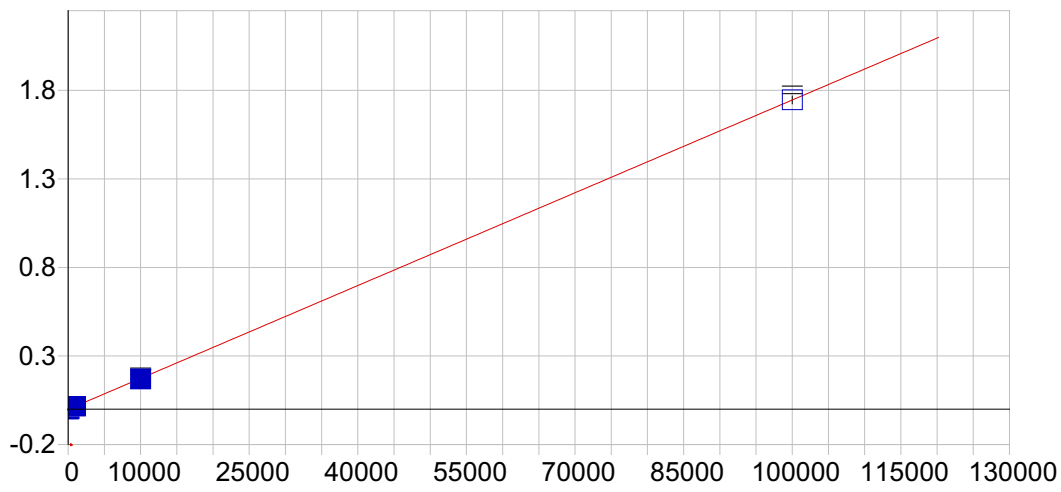


Cr 267.716 {126}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000027	Re-Slope:	1.000000
A1 (Gain):	0.000088	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000077		
Predicted MDL:	0.605987		
Predicted MQL:	2.019955		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.0018	-1.00	.000	-.00006	.000	1
CalibStd=10	10.000	9.7212	-.279	-2.79	.00089	.000	1
CalibStd=50	50.000	49.594	-.406	-.811	.00441	.000	1
CalibStd=100	1000.0	999.89	-.108	-.011	.08840	.001	1
CalibStd=20	20.000	20.599	.599	3.00	.00185	.000	1
CalibStd=100	100.00	101.20	1.20	1.20	.00897	.000	1

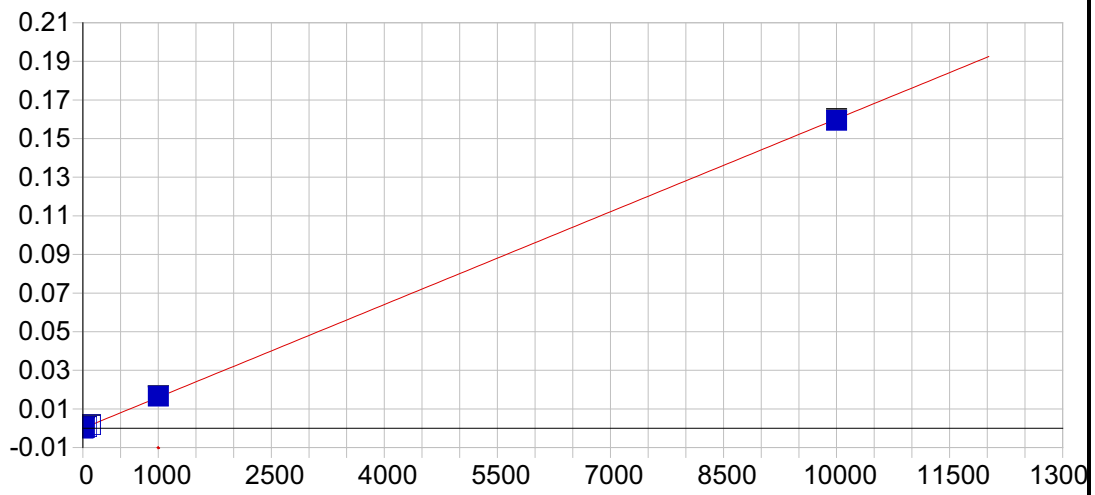


Cr 283.563 {119}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.001031	Re-Slope:	1.000000
A1 (Gain):	0.000017	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.002034		
Predicted MDL:	1.926353		
Predicted MQL:	6.421177		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	61.497	61.5	.000	.00004	.000	1
CalibStd=50	50.000	110.26	60.3	121.	.00089	.000	1
CalibStd=100	100.00	157.29	57.3	57.3	.00172	.000	1
CalibStd=100	1000.0	1007.8	7.81	.781	.01659	.000	1
CalibStd=100	10000.	9792.5	-207.	-2.07	.17019	.004	1
CalibStd-100	100000.	100020.	20.6	.021	1.7461	.021	1

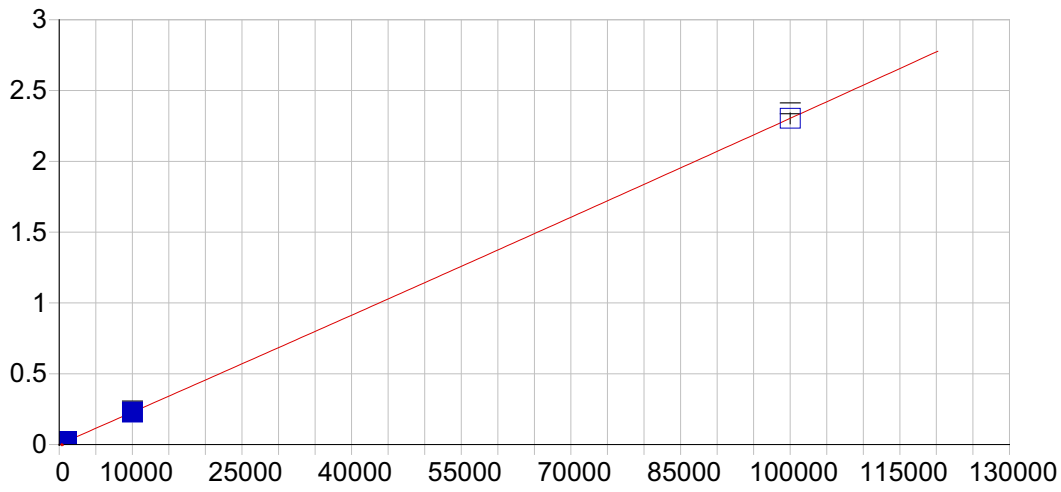


Cu 224.700 {450}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000012	Re-Slope:	1.000000
A1 (Gain):	0.000016	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999897	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.797937		
Predicted MQL:	2.659790		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00233	-.002	.000	-.00001	.000	1
CalibStd=100	1000.0	1033.1	33.1	3.31	.01654	.000	1
CalibStd=50	50.000	52.175	2.17	4.35	.00082	.000	1
CalibStd=100	100.00	106.35	6.35	6.35	.00169	.000	1
CalibStd=10	10.000	11.263	1.26	12.6	.00017	.000	1
CalibStd=100	10000.	9954.2	-45.8	-.458	.15944	.001	1
CalibStd=5	5.0000	5.4013	.401	8.03	.00007	.000	1
CalibStd=20	20.000	22.462	2.46	12.3	.00035	.000	1

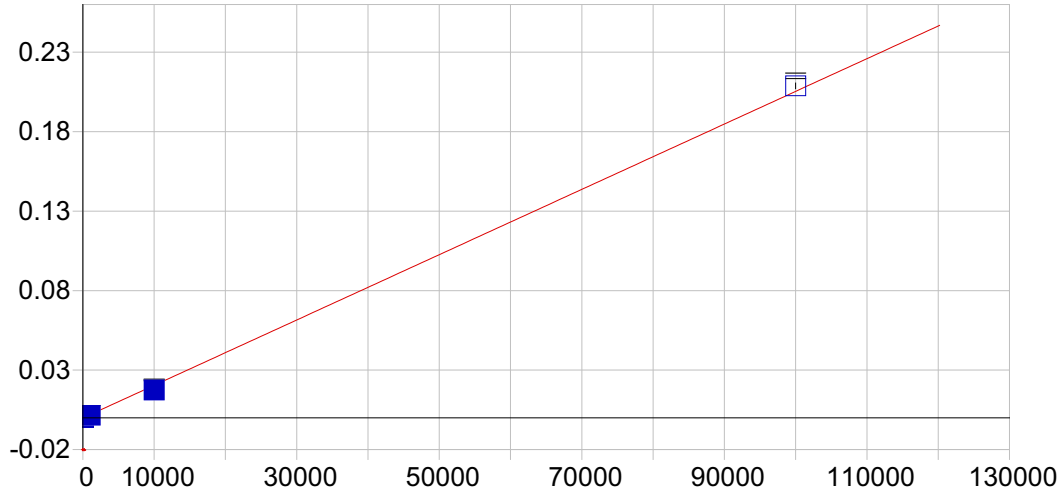


Cu 324.754 {104}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.001277	Re-Slope:	1.000000
A1 (Gain):	0.000023	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	Warning Positive Curvature
Std Error of Est:	0.000010		
Predicted MDL:	2.335076		
Predicted MQL:	7.783585		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00244	.002	.000	.00128	.000	1
CalibStd=100	1000.0	973.52	-26.5	-2.65	.02333	.001	1
CalibStd=100	100.00	99.918	-.082	-.082	.00354	.000	1
CalibStd=100	10000.	10029.	29.1	.291	.22881	.007	1
CalibStd-100	100000.	99997.	-2.57	-.003	2.3036	.038	1

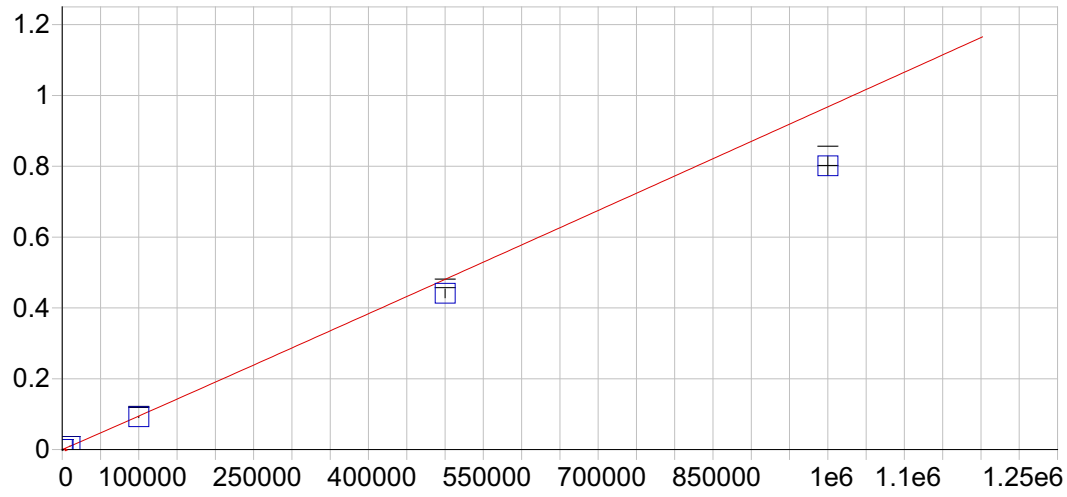


Cu 327.396 {103}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000136	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998669	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	29.679525		
Predicted MQL:	98.931748		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.03721	.037	.000	-.00014	.000	1
CalibStd=20	20.000	1.6729	-18.3	-91.6	-.00013	.000	1
CalibStd=50	50.000	25.121	-24.9	-49.8	-.00008	.000	1
CalibStd=100	100.00	84.798	-15.2	-15.2	.00004	.000	1
CalibStd=100	1000.0	833.21	-167.	-16.7	.00158	.000	1
CalibStd=100	10000.	8553.6	-1450.	-14.5	.01744	.000	1
CalibStd-100	100000.	101670.	1670.	1.67	.20879	.002	1

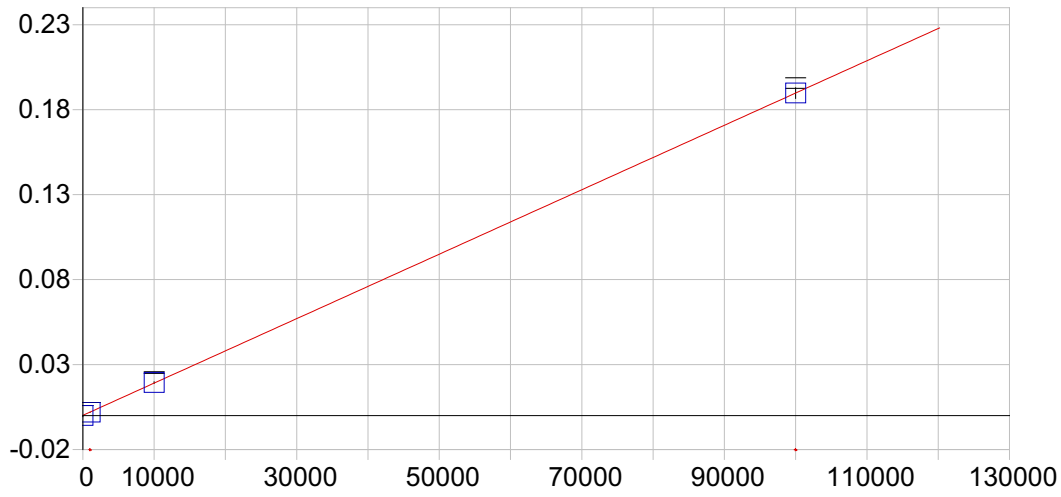


Fe 234.349 {144}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000013	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.010000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	11.453850		
Predicted MQL:	38.179500		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1
CalibStd=100	10000.	10137.	137.	1.37	.00938	.000	1
CalibStd=500	500000.	459160.	-40800.	-8.17	.44093	.012	1
CalibStd-100	1000000.	829290.	-171000.	-17.1	.80108	.027	1
CalibStd=100	1000.0	1023.8	23.8	2.38	.00094	.000	1
CalibStd-100	100000.	97361.	-2640.	-2.64	.09207	.001	1

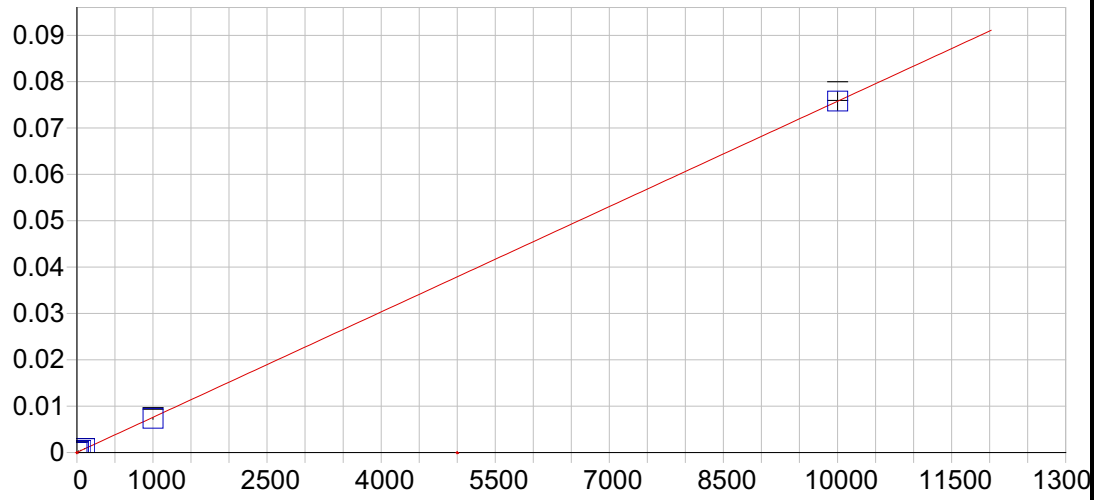


Fe 239.562 {141}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000139	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000243		
Predicted MDL:	6.063066		
Predicted MQL:	20.210219		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-71.267	-71.3	.000	.00000	.000	1
CalibStd=100	1000.0	933.88	-66.1	-6.61	.00191	.000	1
CalibStd=100	10000.	10152.	152.	1.52	.01939	.000	1
CalibStd-100	100000.	99985.	-14.5	-.015	.18977	.003	1

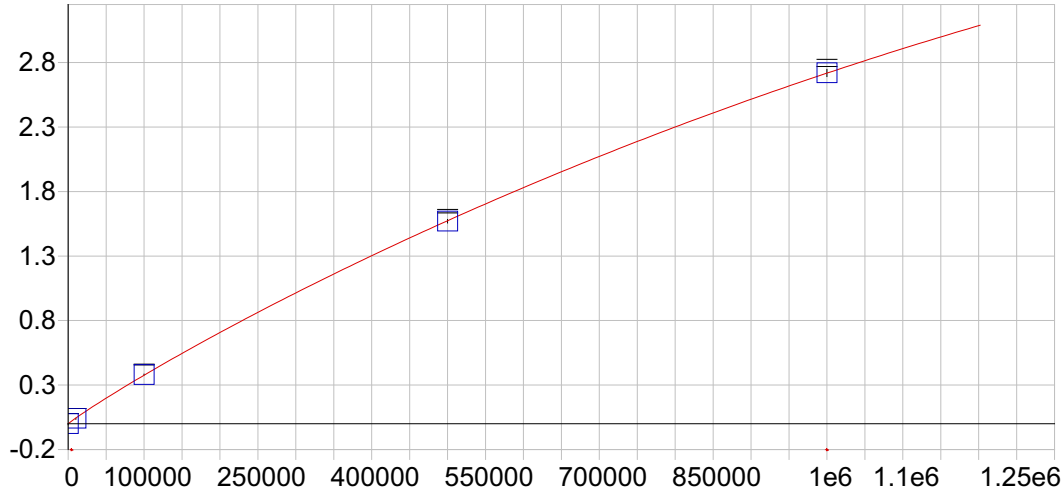


Fe 259.940 {130}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000033	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000145		
Predicted MDL:	3.097974		
Predicted MQL:	10.326580		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	1.3376	1.34	.000	.00004	.000	1
CalibStd=100	1000.0	967.33	-32.7	-3.27	.00736	.000	1
CalibStd=50	50.000	54.454	4.45	8.91	.00045	.000	1
CalibStd=100	100.00	105.23	5.23	5.23	.00083	.000	1
CalibStd=20	20.000	38.486	18.5	92.4	.00032	.000	1
CalibStd=100	10000.	10003.	3.15	.032	.07580	.002	1

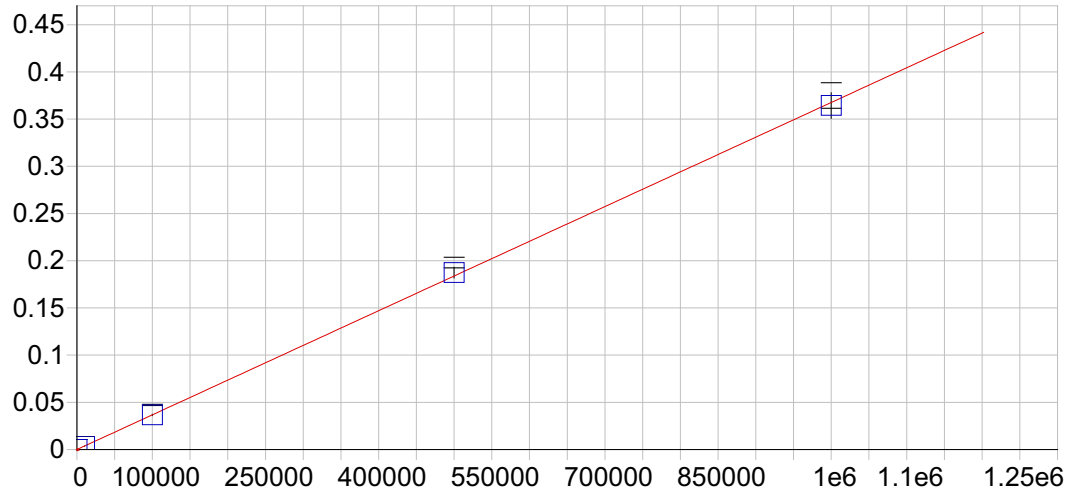


Mg 202.582 {466}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	-0.000058	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.940000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.000189		
Predicted MDL:	1.225627		
Predicted MQL:	4.085422		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.20545	.205	.000	-.00006	.000	1
CalibStd=500	500000.	498470.	-1530.	-.306	1.5700	.013	1
CalibStd=100	10000.	9482.4	-518.	-5.18	.04184	.000	1
CalibStd-100	1000000.	1000800.	820.	.082	2.7195	.028	1
CalibStd-100	100000.	101370.	1370.	1.37	.38083	.003	1

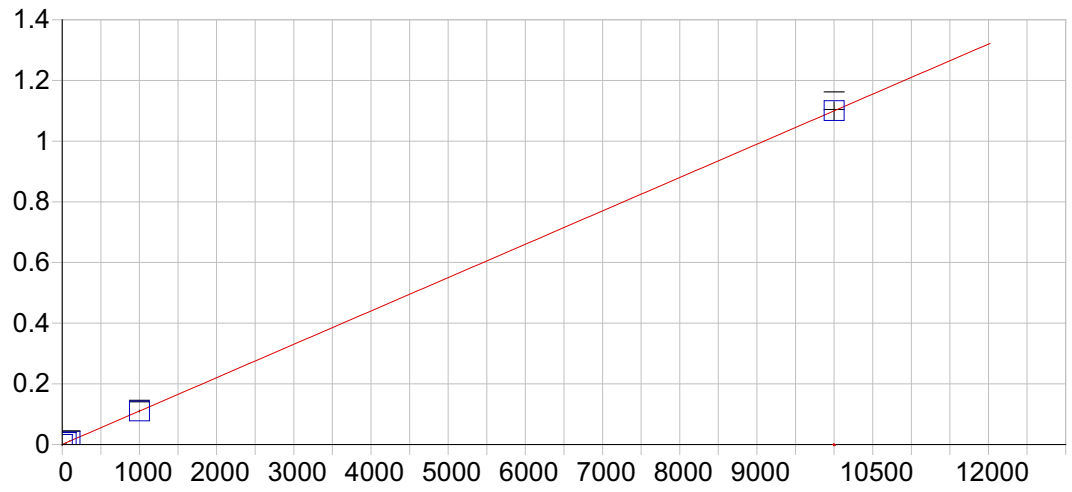


Mg 279.079 {121}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999914	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	39.302296		
Predicted MQL:	131.007653		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.18422	.184	.000	.00000	.000	1
CalibStd=500	500000.	509680.	9680.	1.94	.18736	.006	1
CalibStd=100	10000.	9758.6	-241.	-2.41	.00359	.000	1
CalibStd-100	1000000.	991030.	-8970.	-.897	.36430	.013	1
CalibStd-100	100000.	99532.	-468.	-.468	.03659	.001	1

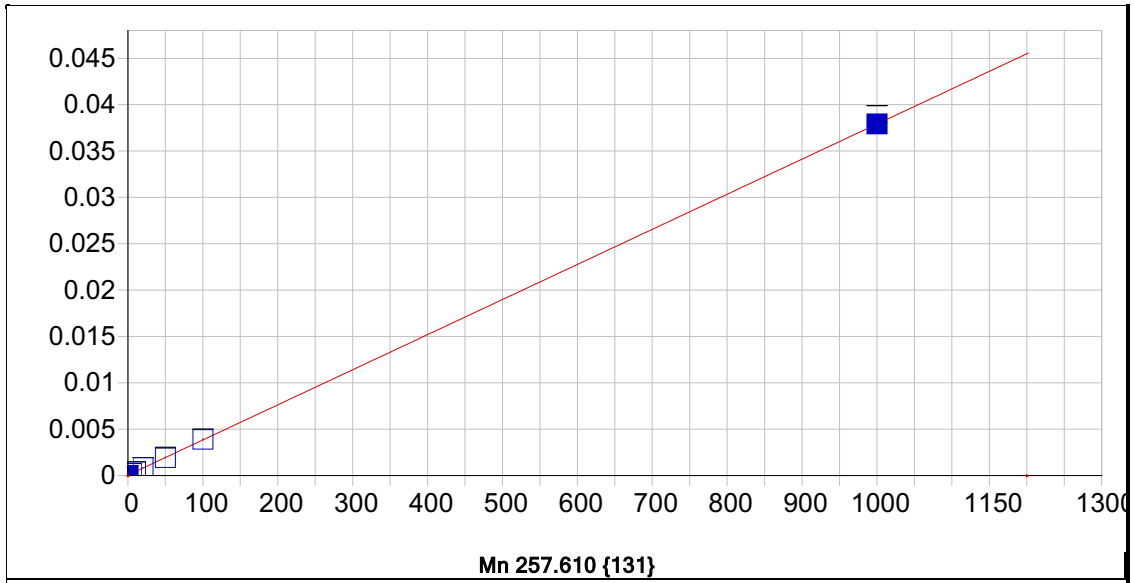


Mg 280.270 {120}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000457	Re-Slope:	1.000000
A1 (Gain):	0.000110	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000255		
Predicted MDL:	0.156215		
Predicted MQL:	0.520717		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.4173	-1.42	.000	.00030	.000	1
CalibStd=100	1000.0	997.41	-2.59	-.259	.11012	.003	1
CalibStd=100	10000.	10000.	.229	.002	1.1000	.029	1
CalibStd=100	100.00	102.23	2.23	2.23	.01170	.000	1
CalibStd=50	50.000	51.551	1.55	3.10	.00612	.000	1

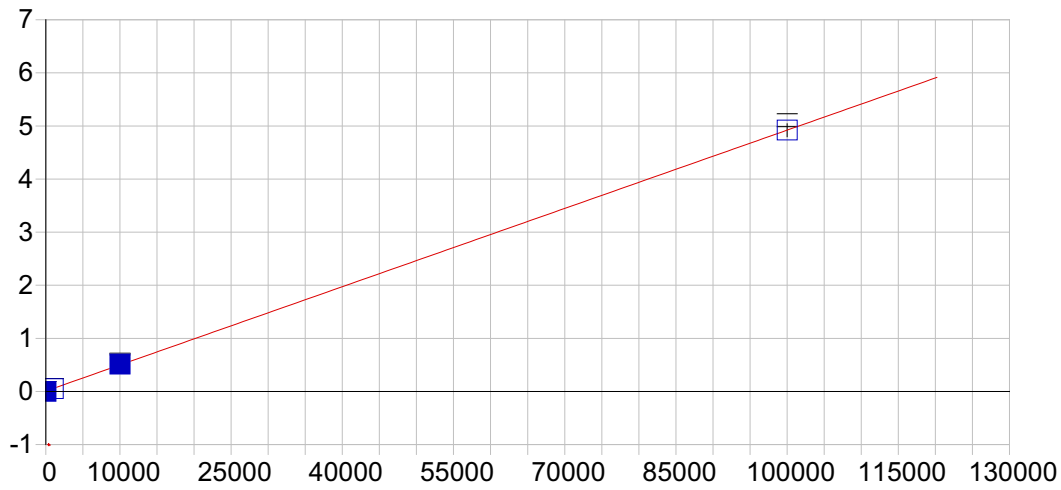


Mn 257.610 {131}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000049	Re-Slope:	1.000000
A1 (Gain):	0.000038	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	0.449832		
Predicted MQL:	1.499439		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.0083	-1.01	.000	.00001	.000	1
CalibStd=10	10.000	9.3542	-.646	-6.46	.00040	.000	1
CalibStd=50	50.000	49.758	-.242	-.485	.00193	.000	1
CalibStd=20	20.000	21.173	1.17	5.87	.00085	.000	1
CalibStd=100	100.00	101.59	1.59	1.59	.00390	.000	1
CalibStd=5	5.0000	4.2930	-.707	-14.1	.00021	.000	1
CalibStd=100	1000.0	999.84	-.160	-.016	.03791	.001	1

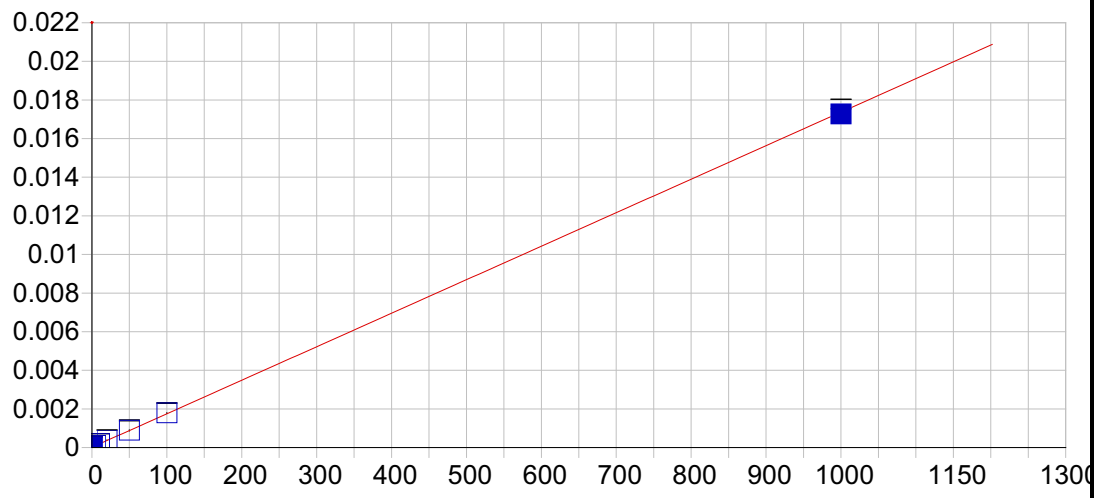


Mn 259.373 {130}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.007360	Re-Slope:	1.000000
A1 (Gain):	0.000049	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.012640		
Predicted MDL:	0.585772		
Predicted MQL:	1.952574		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-149.87	-150.	.000	.00000	.000	1
CalibStd=100	10000.	10305.	305.	3.05	.51443	.015	1
CalibStd-100	100000.	99971.	-29.3	-.029	4.9193	.123	1
CalibStd=100	1000.0	873.95	-126.	-12.6	.05030	.001	1

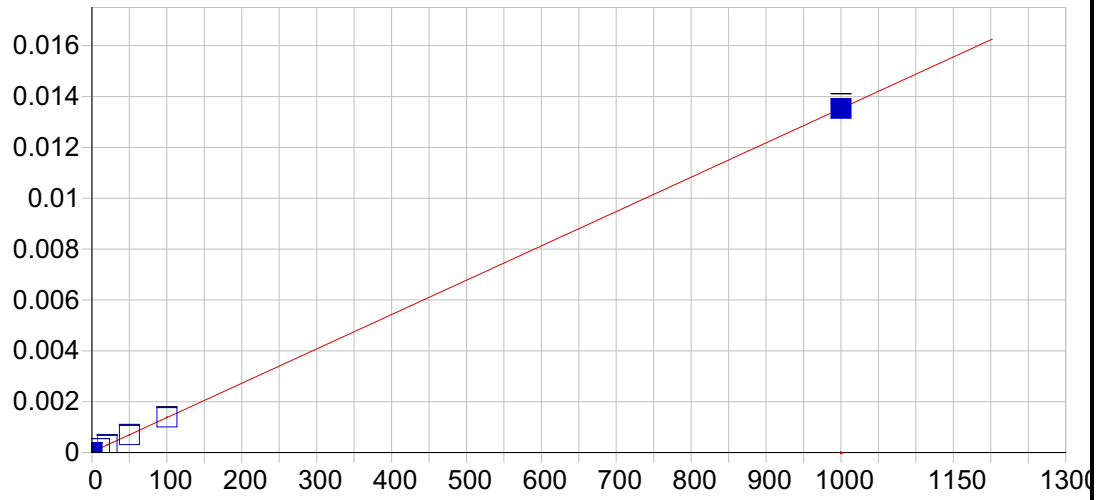


Mo 203.844 {465}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000017	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999790	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.600447		
Predicted MQL:	2.001490		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00072	-.001	.000	.00001	.000	1
CalibStd=50	50.000	50.364	.364	.727	.00089	.000	1
CalibStd=1	1.0000	1.4856	.486	48.6	.00004	.000	1
CalibStd=20	20.000	21.530	1.53	7.65	.00039	.000	1
CalibStd=10	10.000	10.594	.594	5.94	.00020	.000	1
CalibStd=100	100.00	102.27	2.27	2.27	.00179	.000	1
CalibStd=5	5.0000	5.3486	.349	6.97	.00011	.000	1
CalibStd=100	1000.0	994.41	-5.59	-.559	.01727	.000	1

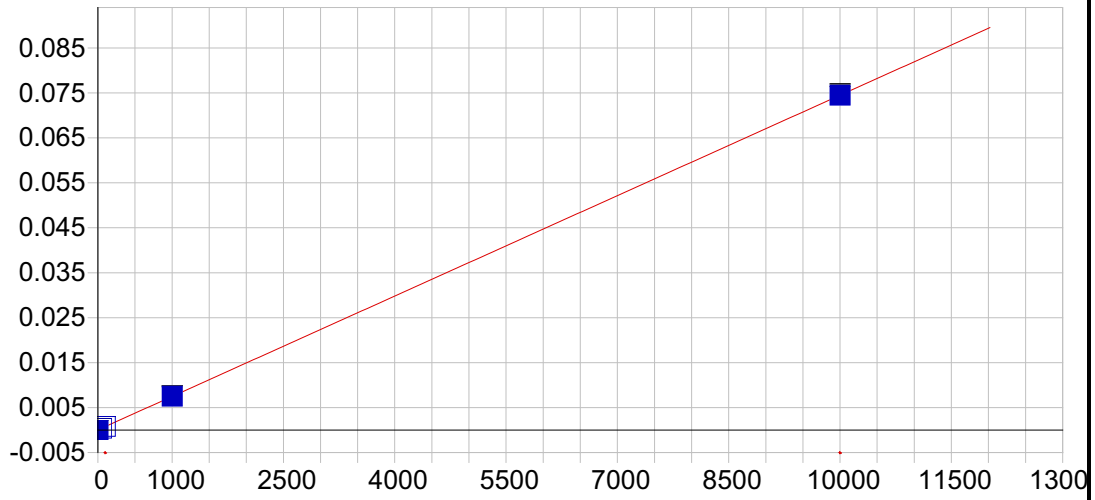


Mo 202.030 {467}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000023	Re-Slope:	1.000000
A1 (Gain):	0.000014	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.500512		
Predicted MQL:	1.668373		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.1013	-1.10	.000	.00001	.000	1
CalibStd=50	50.000	49.986	-.014	-.027	.00070	.000	1
CalibStd=20	20.000	20.497	.497	2.49	.00030	.000	1
CalibStd=10	10.000	9.4808	-.519	-5.19	.00015	.000	1
CalibStd=100	100.00	101.27	1.27	1.27	.00139	.000	1
CalibStd=100	1000.0	999.87	-.131	-.013	.01353	.000	1

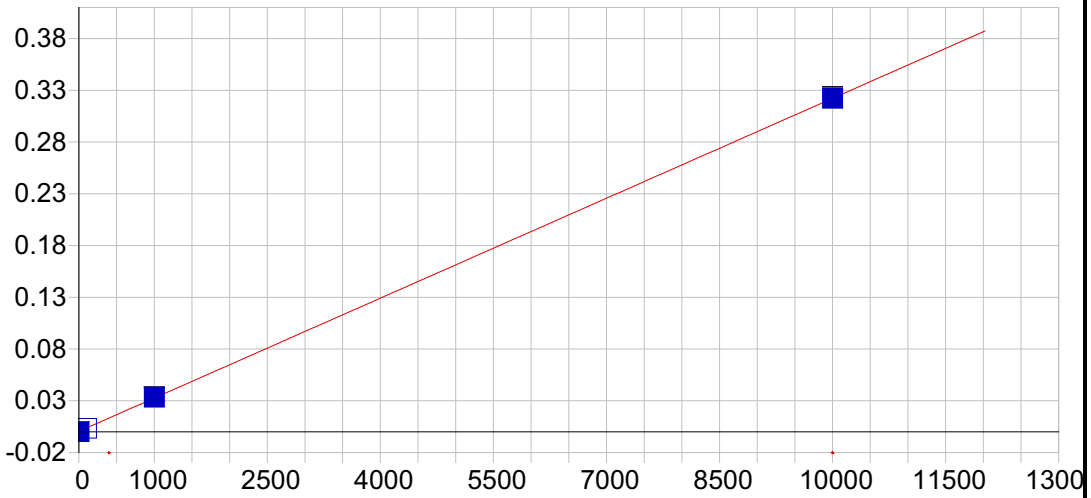


Mo 204.598 {465}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000032	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000036		
Predicted MDL:	1.009798		
Predicted MQL:	3.365994		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.7987	-3.80	.000	.00000	.000	1
CalibStd=100	1000.0	1007.1	7.06	.706	.00753	.000	1
CalibStd=100	10000.	9999.3	-.692	-.007	.07448	.000	1
CalibStd=50	50.000	47.651	-2.35	-4.70	.00039	.000	1
CalibStd=100	100.00	99.776	-.224	-.224	.00077	.000	1

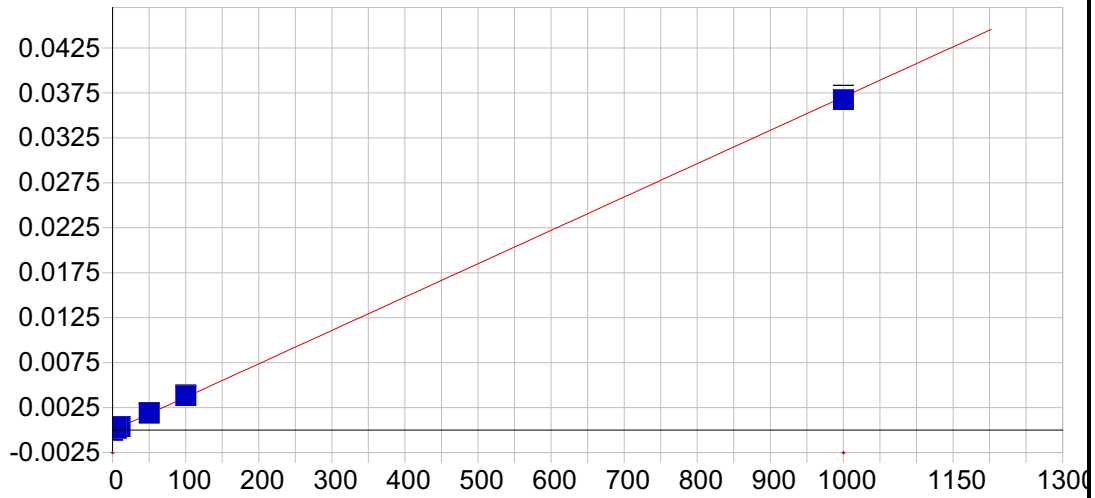


Ni 221.647 {452}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000442	Re-Slope:	1.000000
A1 (Gain):	0.000032	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000673		
Predicted MDL:	0.489158		
Predicted MQL:	1.630528		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-14.345	-14.3	.000	-.00002	.000	1
CalibStd=100	10000.	9997.6	-2.38	-.024	.32213	.001	1
CalibStd=100	100.00	92.175	-7.83	-7.83	.00341	.000	1
CalibStd=100	1000.0	1024.5	24.5	2.45	.03341	.001	1

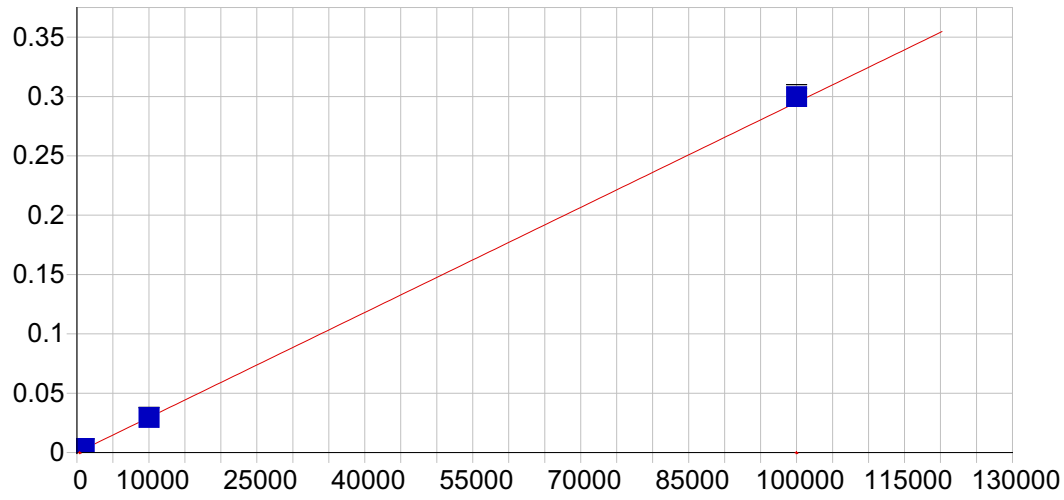


Ni 231.604 {445}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000054	Re-Slope:	1.000000
A1 (Gain):	0.000037	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999681	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.569068		
Predicted MQL:	1.896894		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00212	-.002	.000	-.00005	.000	1
CalibStd=50	50.000	51.740	1.74	3.48	.00187	.000	1
CalibStd=10	10.000	11.596	1.60	16.0	.00038	.000	1
CalibStd=100	100.00	104.03	4.03	4.03	.00381	.000	1
CalibStd=5	5.0000	5.9853	.985	19.7	.00017	.000	1
CalibStd=100	1000.0	991.64	-8.36	-.836	.03674	.000	1

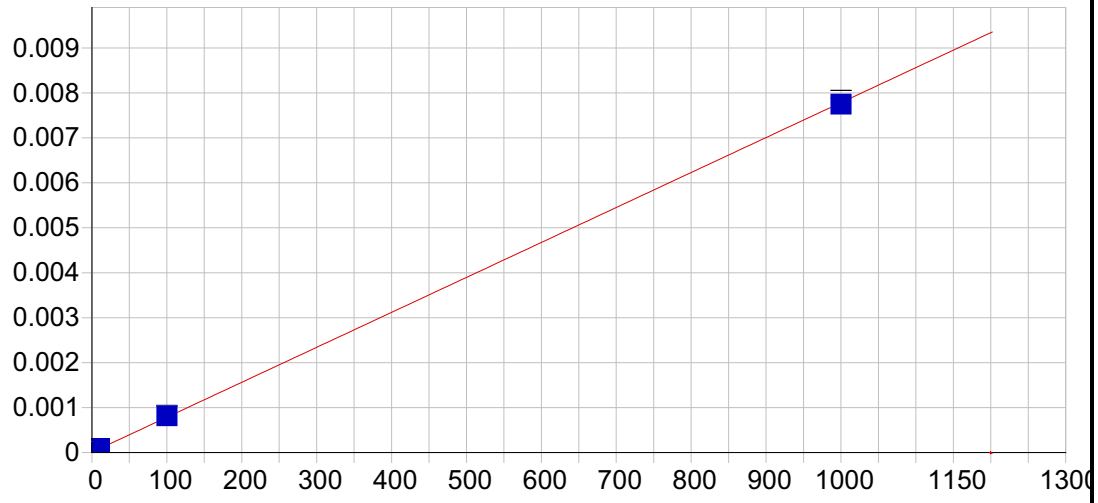


Pb 216.999 {455}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.000012	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	4.125054		
Predicted MQL:	13.750178		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01398	-.014	.000	.00001	.000	1
CalibStd=100	1000.0	1041.4	41.4	4.14	.00309	.000	1
CalibStd=100	10000.	9959.2	-40.8	-.408	.02948	.000	1
CalibStd-100	100000.	101610.	1610.	1.61	.29984	.002	1
CalibStd=100	100.00	110.42	10.4	10.4	.00034	.000	1

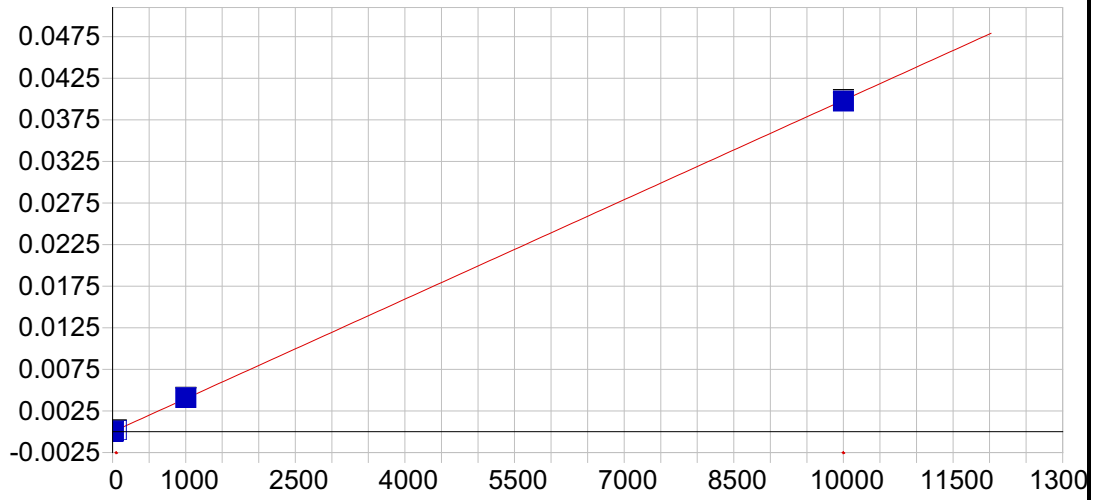


Pb 220.353 {453}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999903	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	1.631813		
Predicted MQL:	5.439375		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00063	-.001	.000	.00001	.000	1
CalibStd=10	10.000	10.451	.451	4.51	.00009	.000	1
CalibStd=100	100.00	104.04	4.04	4.04	.00082	.000	1
CalibStd=5	5.0000	5.2212	.221	4.42	.00005	.000	1
CalibStd=100	1000.0	995.28	-4.72	-.472	.00775	.000	1

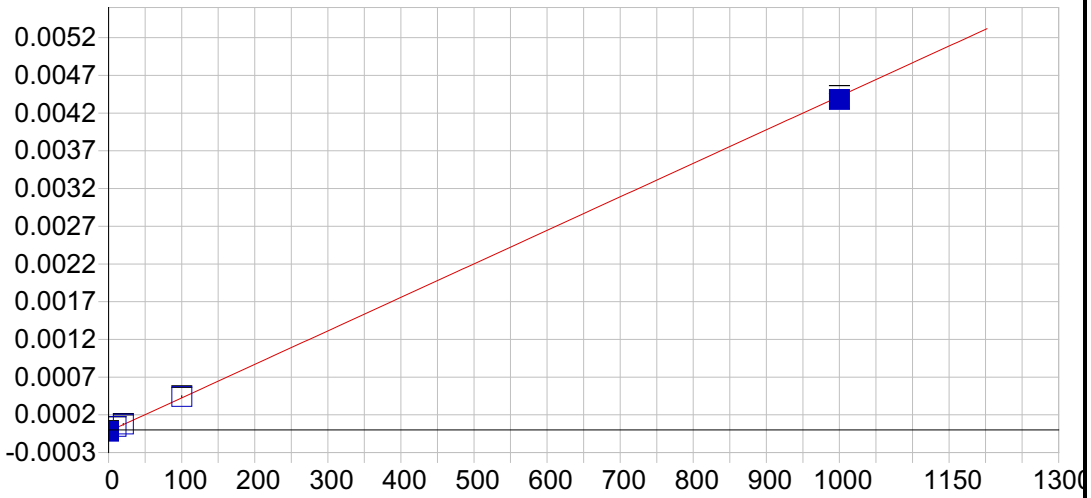


Sb 206.833 {463}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	2.223921		
Predicted MQL:	7.413070		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00160	-.002	.000	.00000	.000	1
CalibStd=100	1000.0	1027.0	27.0	2.70	.00409	.000	1
CalibStd=10	10.000	10.772	.772	7.72	.00004	.000	1
CalibStd=50	50.000	52.954	2.95	5.91	.00021	.000	1
CalibStd=100	10000.	9969.3	-30.7	-.307	.03973	.000	1

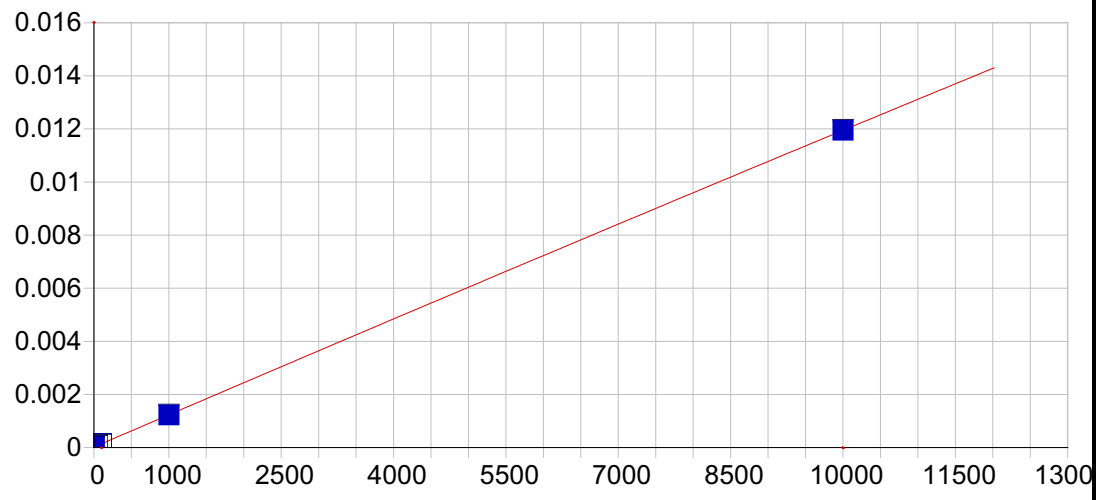


Sb 217.581 {455}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000020	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998961	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	3.018554		
Predicted MQL:	10.061847		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00548	-.005	.000	-.00002	.000	1
CalibStd=100	1000.0	990.30	-9.70	-.970	.00438	.000	1
CalibStd=20	20.000	21.430	1.43	7.15	.00008	.000	1
CalibStd=10	10.000	14.482	4.48	44.8	.00004	.000	1
CalibStd=100	100.00	103.79	3.79	3.79	.00044	.000	1

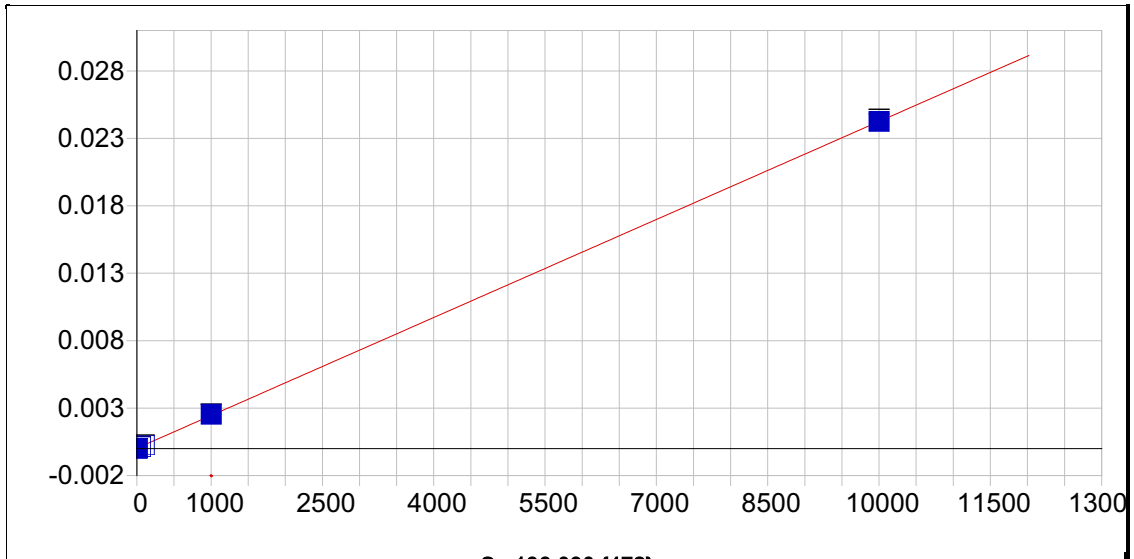


Se 196.090 {172}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.000020	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	0.999684	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	12.417225		
Predicted MQL:	41.390749		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00475	.005	.000	.00002	.000	1
CalibStd=50	50.000	59.972	9.97	19.9	.00009	.000	1
CalibStd=100	1000.0	994.34	-5.66	-.566	.00123	.000	1
CalibStd=10	10.000	3.1073	-6.89	-68.9	.00002	.000	1
CalibStd=100	100.00	102.06	2.06	2.06	.00014	.000	1
CalibStd=100	10000.	10001.	.519	.005	.01195	.000	1

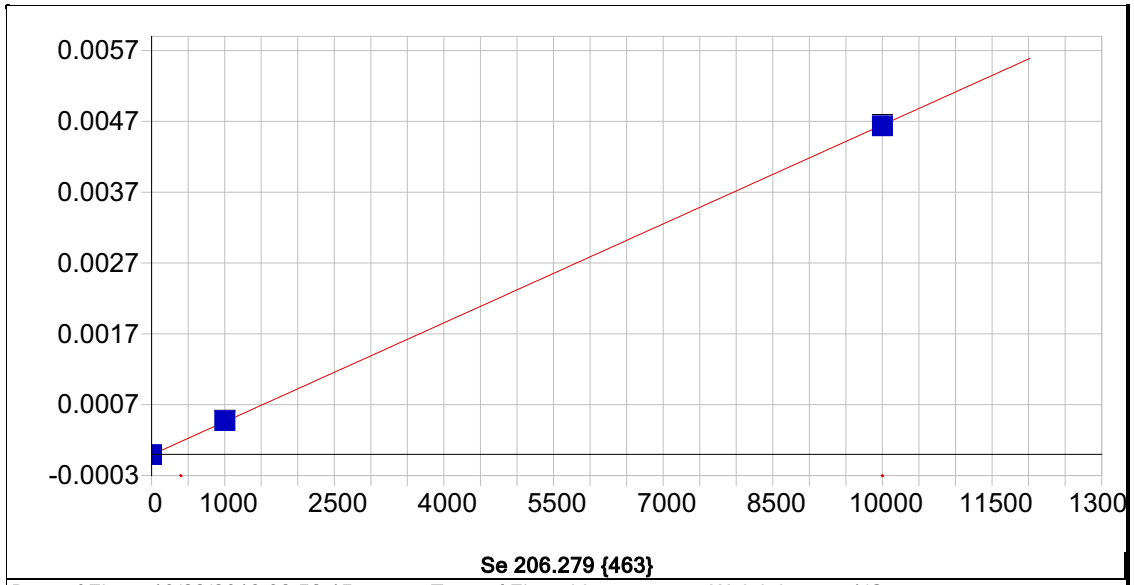


Se 196.090 {472}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000028	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000047		
Predicted MDL:	3.286910		
Predicted MQL:	10.956368		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-9.8405	-9.84	.000	.00000	.000	1
CalibStd=50	50.000	41.760	-8.24	-16.5	.00013	.000	1
CalibStd=100	1000.0	1034.6	34.6	3.46	.00253	.000	1
CalibStd=10	10.000	.36708	-9.63	-96.3	.00003	.000	1
CalibStd=100	100.00	96.492	-3.51	-3.51	.00026	.000	1
CalibStd=100	10000.	9996.6	-3.37	-.034	.02425	.000	1

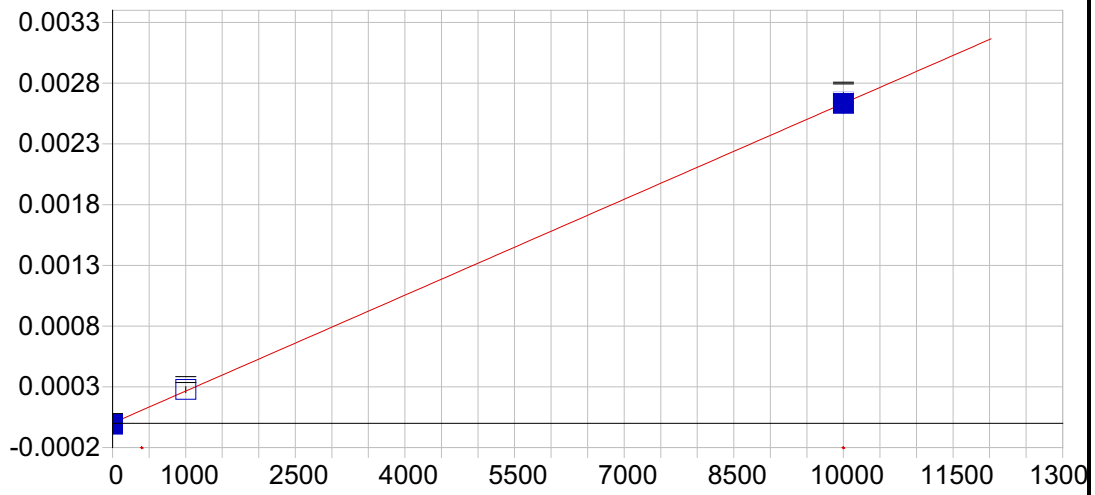


Se 206.279 {463}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999950	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	27.364770		
Predicted MQL:	91.215900		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.02843	-.028	.000	-.00001	.000	1
CalibStd=100	1000.0	1031.6	31.6	3.16	.00047	.000	1
CalibStd=100	10000.	9968.4	-31.6	-.316	.00464	.000	1

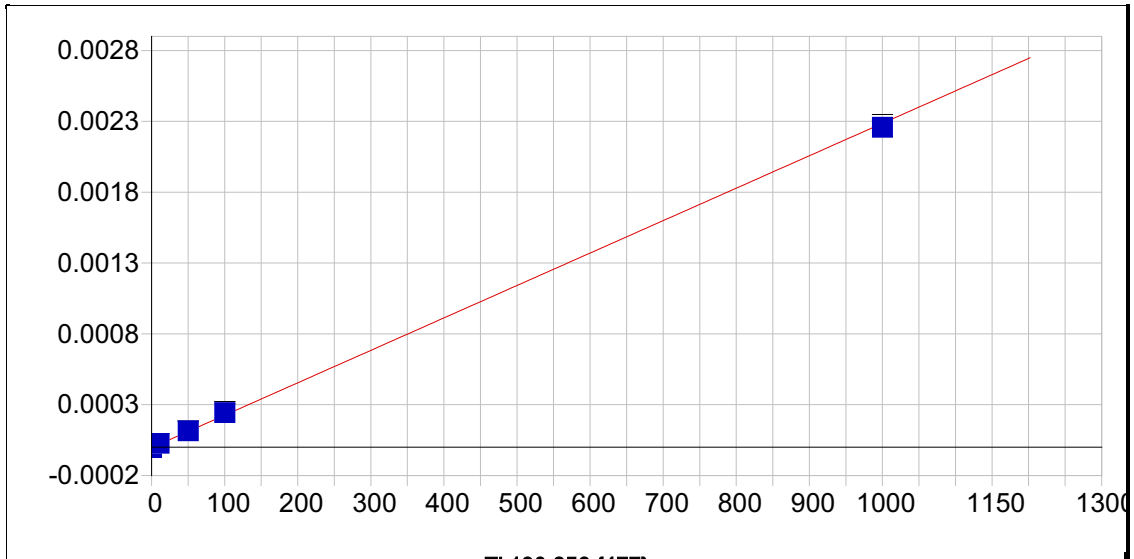


Tl 276.787 {122}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000016		
Predicted MDL:	122.436933		
Predicted MQL:	408.123110		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-41.546	-41.5	.000	-.00001	.000	1
CalibStd=100	1000.0	1046.1	46.1	4.61	.00028	.000	1
CalibStd=100	10000.	9995.4	-4.59	-.046	.00265	.000	1

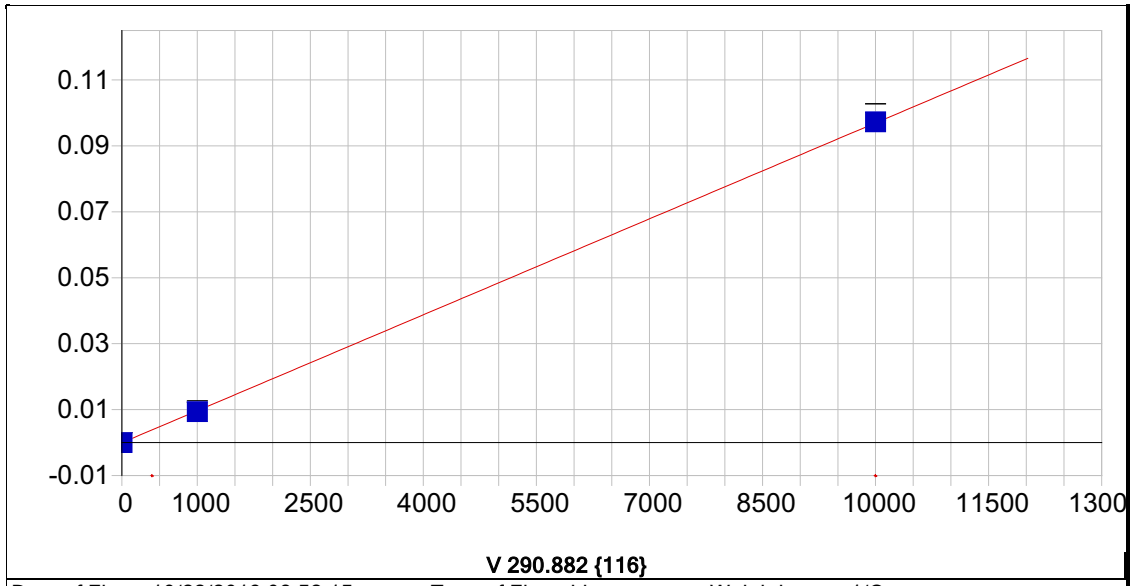


Tl 190.856 {477}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999220	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	2.741669		
Predicted MQL:	9.138896		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00412	-.004	.000	.00000	.000	1
CalibStd=50	50.000	51.399	1.40	2.80	.00011	.000	1
CalibStd=100	1000.0	987.65	-12.4	-1.24	.00226	.000	1
CalibStd=100	100.00	107.77	7.77	7.77	.00024	.000	1
CalibStd=10	10.000	13.183	3.18	31.8	.00003	.000	1

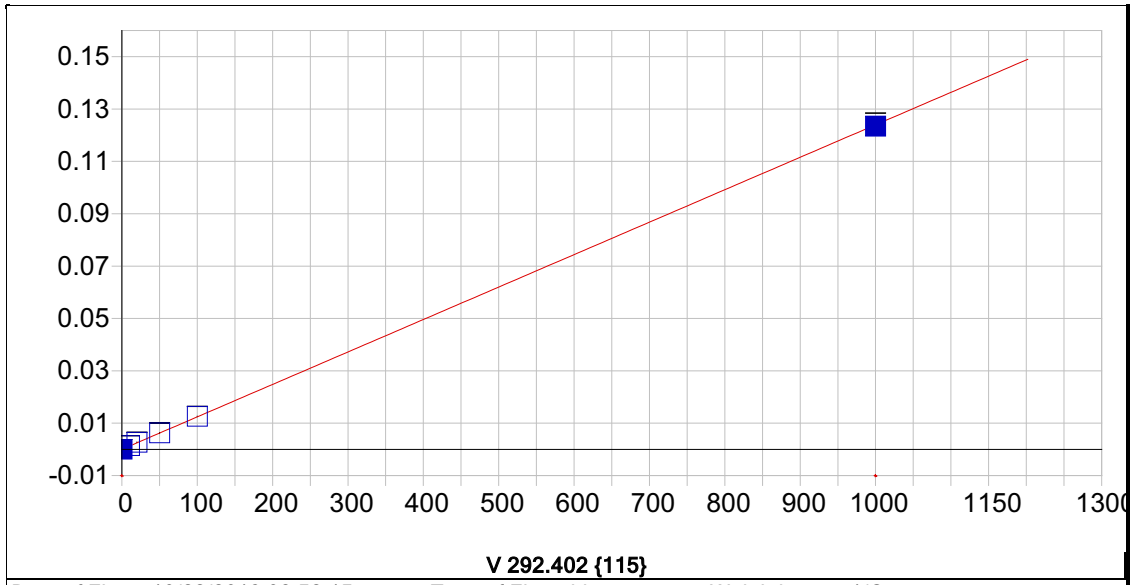


V 290.882 {116}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000045	Re-Slope:	1.000000
A1 (Gain):	0.000010	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	4.896160		
Predicted MQL:	16.320534		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.02779	.028	.000	-.00004	.000	1
CalibStd=100	1000.0	969.12	-30.9	-3.09	.00936	.000	1
CalibStd=100	10000.	10031.	30.9	.309	.09727	.002	1

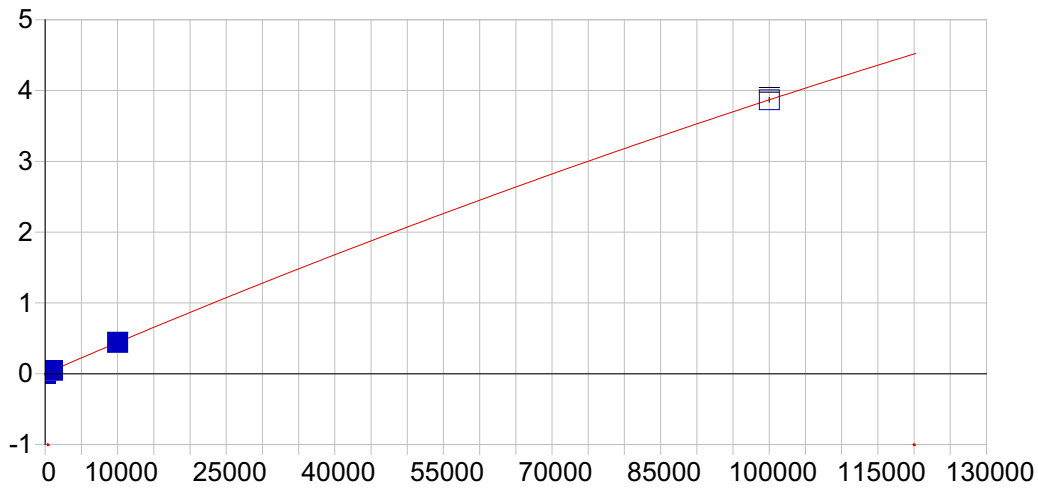


V 292.402 {115}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000124	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999892	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.711690		
Predicted MQL:	2.372299		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00192	-.002	.000	.00001	.000	1
CalibStd=50	50.000	50.462	.462	.924	.00627	.000	1
CalibStd=100	1000.0	995.69	-4.31	-.431	.12345	.001	1
CalibStd=20	20.000	21.582	1.58	7.91	.00269	.000	1
CalibStd=10	10.000	10.943	.943	9.43	.00137	.000	1
CalibStd=100	100.00	101.33	1.33	1.33	.01258	.000	1

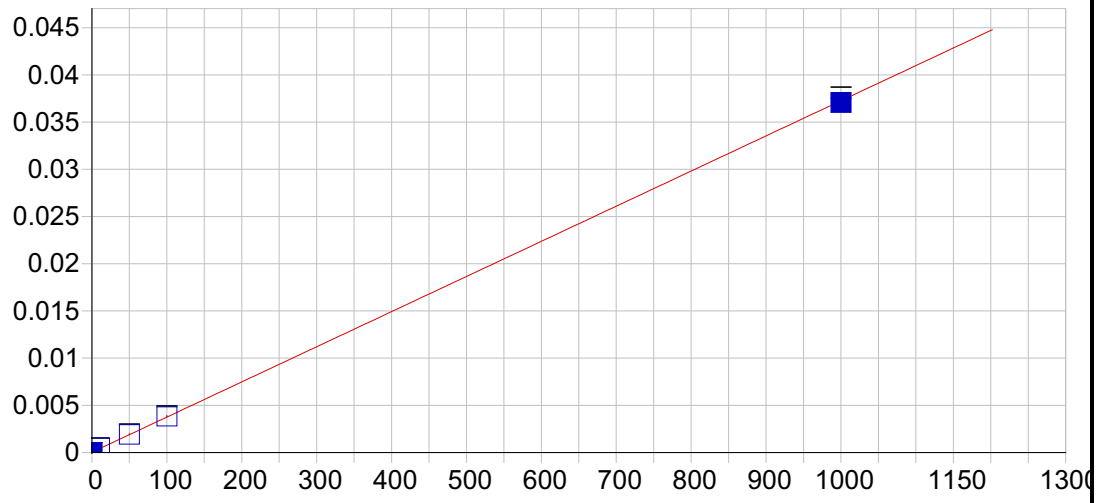


Zn 206.200 {463}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	0.000101	Re-Slope:	1.000000
A1 (Gain):	0.000049	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.990000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.202327		
Predicted MQL:	0.674423		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
CalibStd=100	10000.	9999.7	-.296	-.003	.44135	.002	1
Blank	.00000	.00000	.000	.000	.00000	.000	1
CalibStd=100	1000.0	1002.5	2.51	.251	.04584	.001	1
CalibStd-100	100000.	100000.	.004	.000	3.8685	.032	1

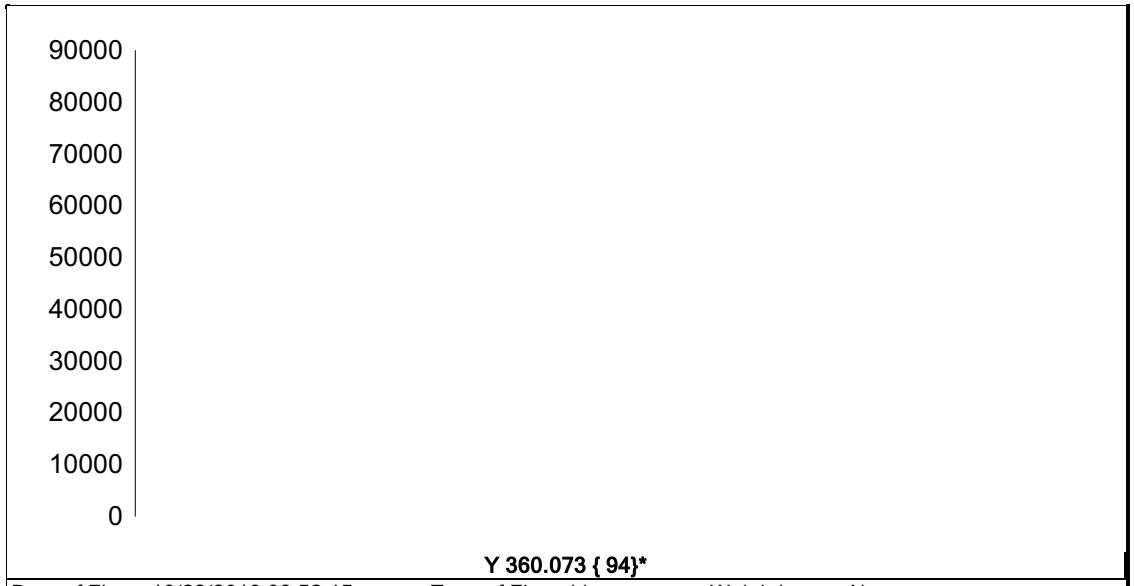


Zn 213.856 {458}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000032	Re-Slope:	1.000000
A1 (Gain):	0.000037	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999776	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.208341		
Predicted MQL:	0.694470		

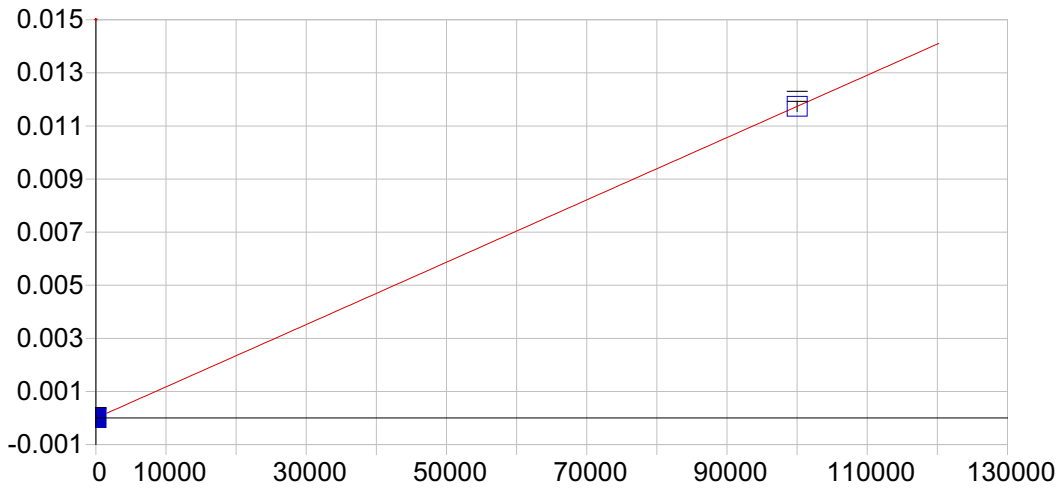
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00242	-.002	.000	.00003	.000	1
CalibStd=100	100.00	102.26	2.26	2.26	.00384	.000	1
CalibStd=50	50.000	50.970	.970	1.94	.00193	.000	1
CalibStd=10	10.000	12.052	2.05	20.5	.00048	.000	1
CalibStd=100	1000.0	994.72	-5.28	-.528	.03707	.001	1



Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	82043.	485.	1

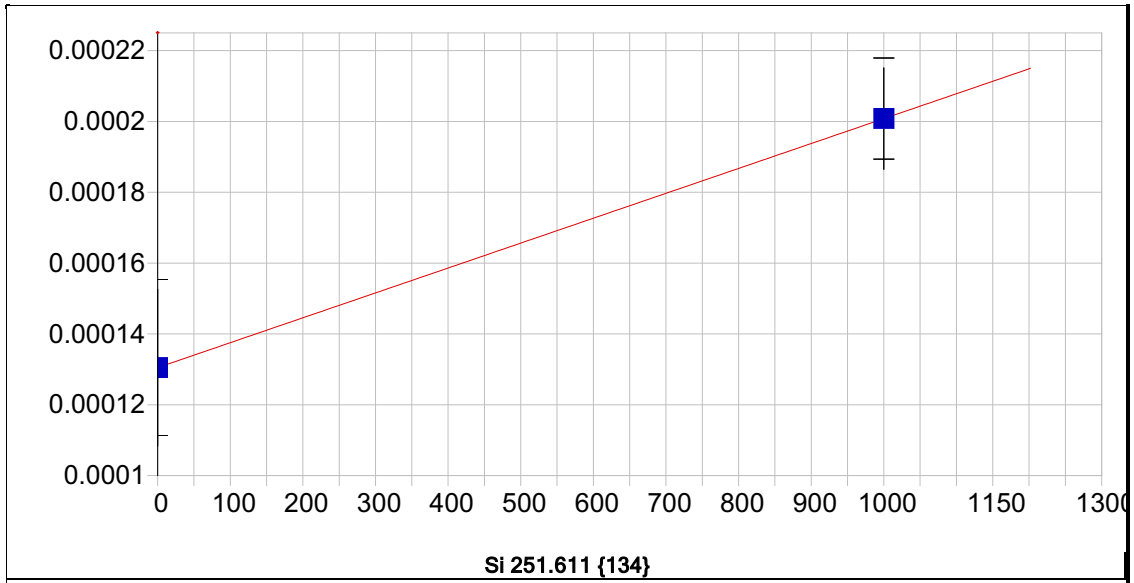


Na 330.298 {102}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	461.592582		
Predicted MQL:	1538.641941		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00000	.000	1
CalibStd-100	100000.	100000.	.000	.000	.01174	.000	1

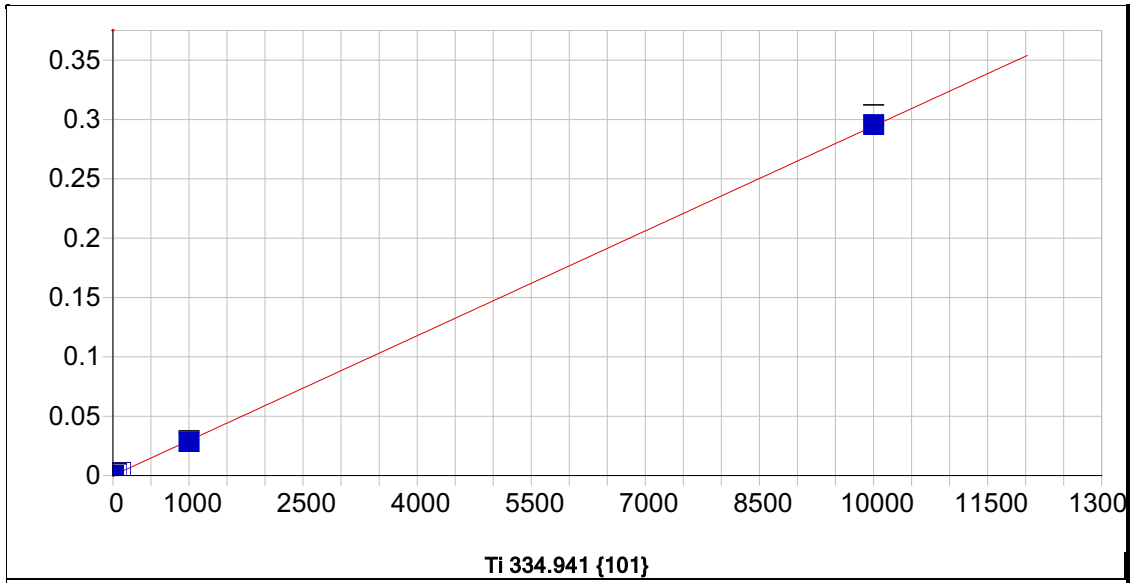


Si 251.611 {134}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000130	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	406.783135		
Predicted MQL:	1355.943785		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00013	.000	1
CalibStd=100	1000.0	1000.0	.000	.000	.00020	.000	1

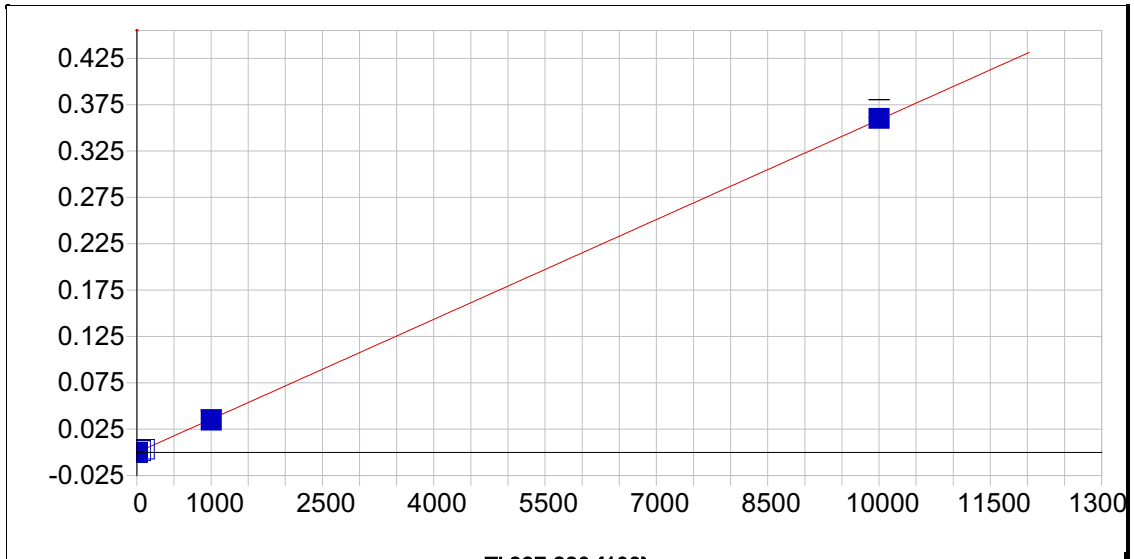


Ti 334.941 {101}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000040	Re-Slope:	1.000000
A1 (Gain):	0.000029	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999902	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.376795		
Predicted MQL:	4.589317		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00100	.001	.000	.00004	.000	1
CalibStd=10	10.000	9.2962	-.704	-7.04	.00031	.000	1
CalibStd=100	100.00	99.720	-.280	-.280	.00298	.000	1
CalibStd=100	1000.0	965.02	-35.0	-3.50	.02846	.001	1
CalibStd=100	10000.	10040.	40.1	.401	.29568	.008	1
CalibStd=50	50.000	47.246	-2.75	-5.51	.00143	.000	1
CalibStd=1	1.0000	.29540	-.705	-70.5	.00005	.000	1
CalibStd=5	5.0000	4.3107	-.689	-13.8	.00017	.000	1

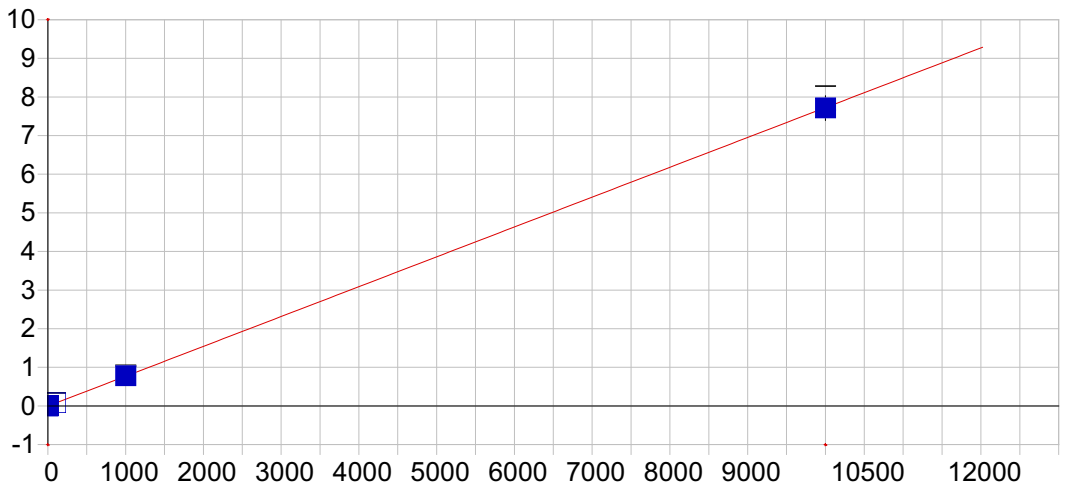


Ti 337.280 {100}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000102	Re-Slope:	1.000000
A1 (Gain):	0.000036	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999884	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	1.572133		
Predicted MQL:	5.240442		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00125	.001	.000	-.00010	.000	1
CalibStd=10	10.000	10.083	.083	.834	.00026	.000	1
CalibStd=100	100.00	97.803	-2.20	-2.20	.00341	.000	1
CalibStd=100	1000.0	966.20	-33.8	-3.38	.03457	.001	1
CalibStd=100	10000.	10038.	38.5	.385	.36015	.010	1
CalibStd=50	50.000	49.068	-.932	-1.86	.00166	.000	1
CalibStd=1	1.0000	-.07583	-1.08	-108.	-.00010	.000	1
CalibStd=5	5.0000	4.4349	-.565	-11.3	.00006	.000	1

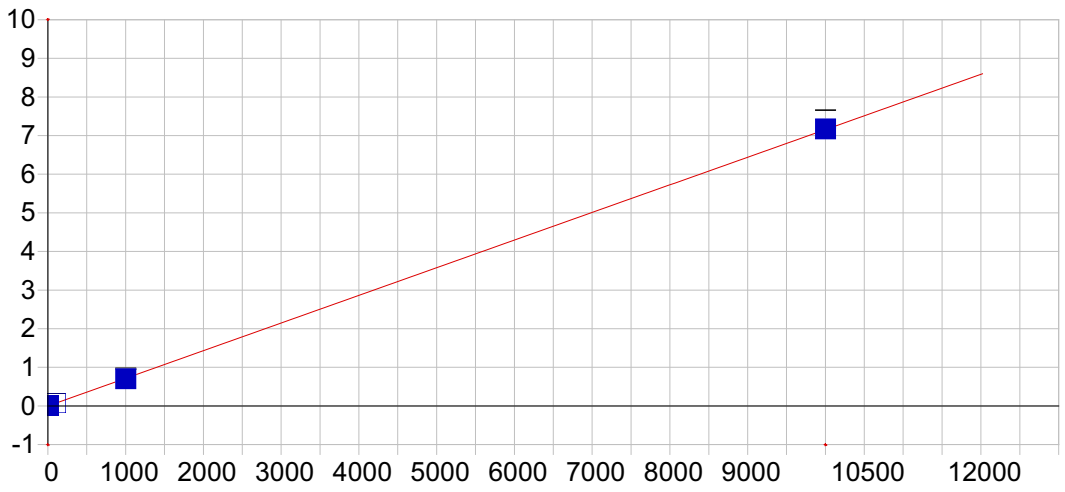


Sr 407.771 { 83}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003630	Re-Slope:	1.000000
A1 (Gain):	0.000773	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999983	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.104756		
Predicted MQL:	0.349186		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00030	.000	.000	-.00363	.000	1
CalibStd=1	1.0000	1.1071	.107	10.7	-.00277	.000	1
CalibStd=5	5.0000	5.3604	.360	7.21	.00051	.000	1
CalibStd=10	10.000	10.779	.779	7.79	.00470	.000	1
CalibStd=100	100.00	103.78	3.78	3.78	.07658	.001	1
CalibStd=100	1000.0	1010.2	10.2	1.02	.77712	.019	1
CalibStd=100	10000.	9984.8	-15.2	-.152	7.7134	.312	1

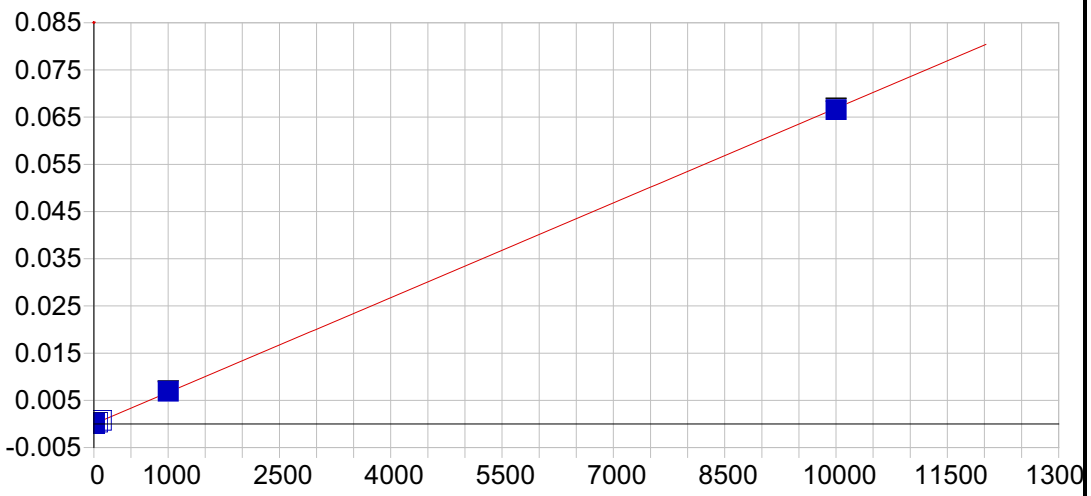


Sr 421.552 { 80}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000524	Re-Slope:	1.000000
A1 (Gain):	0.000716	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.127499		
Predicted MQL:	0.424995		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00004	.000	.000	-.00052	.000	1
CalibStd=1	1.0000	.98666	-.013	-1.33	.00018	.000	1
CalibStd=5	5.0000	5.1534	.153	3.07	.00316	.000	1
CalibStd=10	10.000	10.434	.434	4.34	.00694	.000	1
CalibStd=100	100.00	100.12	.123	.123	.07114	.001	1
CalibStd=100	1000.0	980.85	-19.2	-1.92	.70149	.017	1
CalibStd=100	10000.	10018.	18.5	.185	7.1698	.229	1

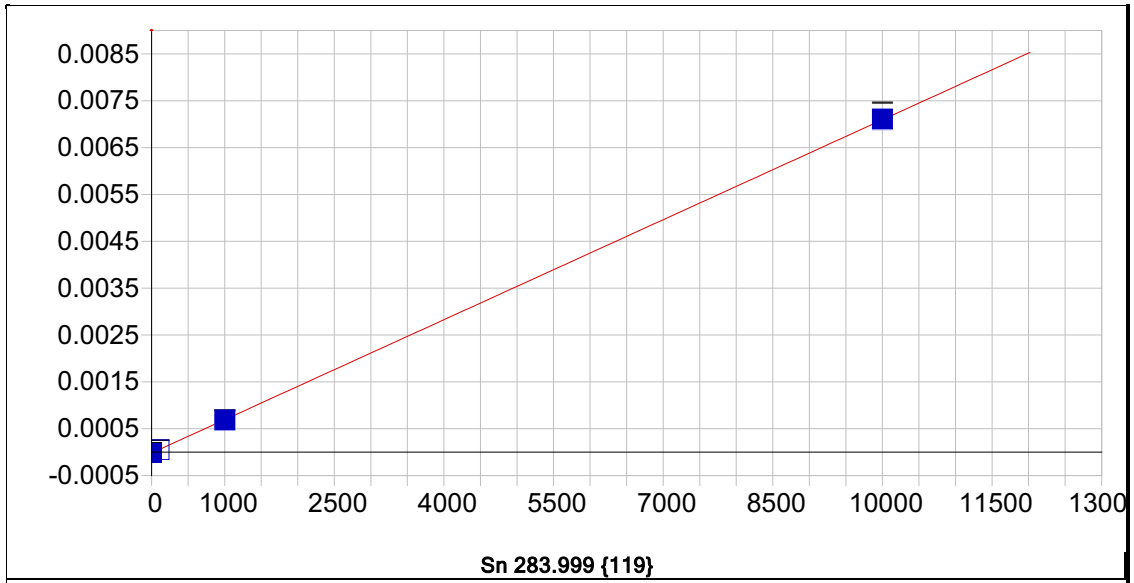


Sn 189.989 {477}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999888	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.894786		
Predicted MQL:	2.982619		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00232	-.002	.000	.00000	.000	1
CalibStd=100	10000.	9953.3	-46.7	-.467	.06657	.000	1
CalibStd=100	1000.0	1033.4	33.4	3.34	.00691	.000	1
CalibStd=100	100.00	108.05	8.05	8.05	.00072	.000	1
CalibStd=10	10.000	10.780	.780	7.80	.00007	.000	1
CalibStd=50	50.000	53.370	3.37	6.74	.00036	.000	1
CalibStd=5	5.0000	6.0464	1.05	20.9	.00004	.000	1

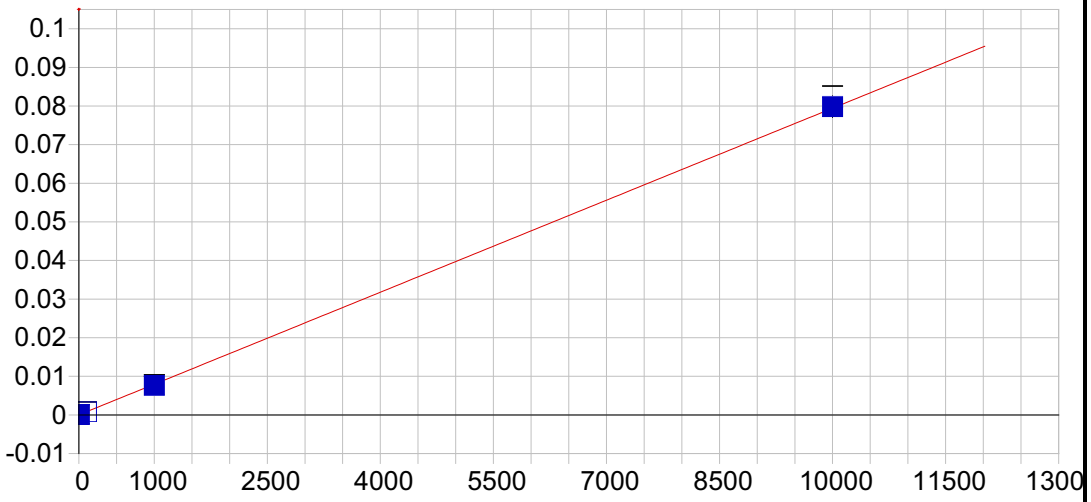


Sn 283.999 {119}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000019	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	40.197105		
Predicted MQL:	133.990350		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00641	.006	.000	-.00002	.000	1
CalibStd=100	10000.	10017.	17.4	.174	.00709	.000	1
CalibStd=100	1000.0	987.98	-12.0	-1.20	.00068	.000	1
CalibStd=100	100.00	94.617	-5.38	-5.38	.00005	.000	1

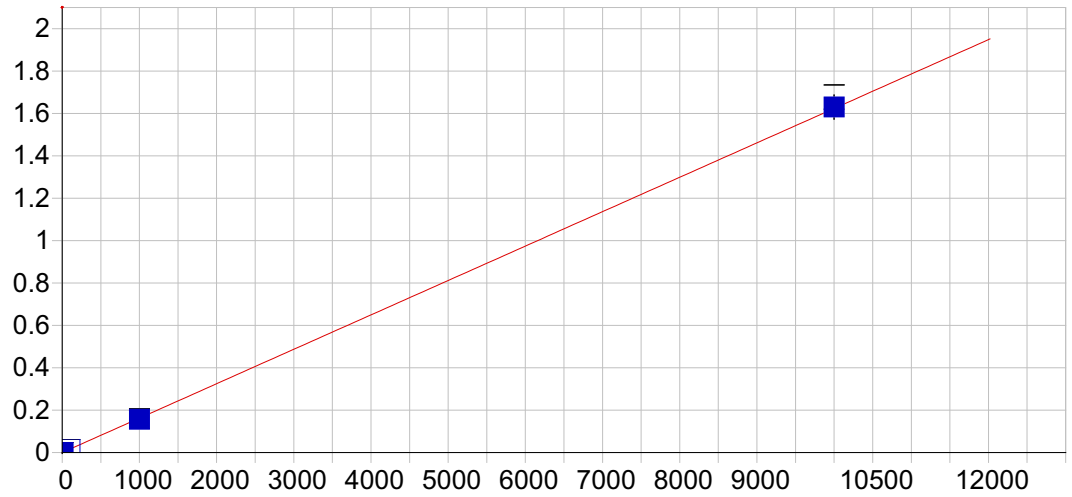


B 249.773 {135}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000005	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999895	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	2.652021		
Predicted MQL:	8.840071		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00044	.000	.000	.00000	.000	1
CalibStd=100	100.00	96.314	-3.69	-3.69	.00077	.000	1
CalibStd=10	10.000	11.195	1.19	11.9	.00009	.000	1
CalibStd=100	1000.0	957.01	-43.0	-4.30	.00762	.000	1
CalibStd=100	10000.	10045.	45.5	.455	.07990	.003	1



Li 670.784 { 50}

Date of Fit:	10/22/2013 08:52:15	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000083	Re-Slope:	1.000000
A1 (Gain):	0.000162	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999915	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	1.045958		
Predicted MQL:	3.486526		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00095	-.001	.000	.00008	.000	1
CalibStd=10	10.000	11.394	1.39	13.9	.00193	.000	1
CalibStd=100	100.00	99.139	-.861	-.861	.01618	.000	1
CalibStd=100	1000.0	960.75	-39.3	-3.93	.15607	.004	1
CalibStd=100	10000.	10039.	38.7	.387	1.6300	.057	1

Sample Name: Blank Acquired: 10/21/2013 13:56:02 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	Al1670	As1937	As1890	Ba4554	Ba4934	Be3130	Be2348	Ca3179	Ca3933
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	-.002	.000	.000	.000	.000	.000	-.004	.000	.000	.010	.001
Stddev	.00	.000	.00	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	30.3	2.04	102.	5.77	72.9	358.	22.3	4.13	19.2	333.	.125	2.25

Elem	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Cu3247	Fe2343	Fe2395	Fe2599	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000
Stddev	.00	.000	.000	.000	.00	.000	.00	.000	.000	.000	.000	.00
%RSD	20.5	15.7	275.	7.82	45.6	40.8	91.2	1.54	28.7	282.	30.1	7.26

Elem	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Stddev	.000	.000	.00	.000	.000	.00	.00	.000	.000	.00	.00	.000
%RSD	7.51	15.0	794.	57.2	150.	33.3	5.39	27.5	67.1	153.	33.1	43.7

Elem	Se1960	Se2062	Tl2767	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.000	.000	.000	.000	.000	.000	.000
Stddev	.000	.00	.00	.00	.00	.000	.00	.000
%RSD	127.	103.	52.4	135.	121.	382.	6770.	11.6

Int. Std.	Y_3600
Units	Cts/S
Avg	82043.
Stddev	485.
%RSD	.59171

Sample Name: CalibStd=0.25 Acquired: 10/21/2013 13:59:50 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Be3130
Units	Cts/S
Avg	.000
Stddev	.000
%RSD	2.55

Int. Std.	Y_3600
Units	Cts/S
Avg	82825.
Stddev	1306.
%RSD	1.5766

Sample Name: CalibStd=0.5 Acquired: 10/21/2013 14:03:40 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	.000	.000
Stddev	.000	.000
%RSD	20.4	6.02

Int. Std.	Y_3600
Units	Cts/S
Avg	83915.
Stddev	1352.
%RSD	1.6111

Sample Name: CalibStd=1 Acquired: 10/21/2013 14:07:30 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Cd2265
Units	Cts/S	Cts/S
Avg	.000	.000
Stddev	.000	.000
%RSD	517.	8.48

Int. Std.	Y_3600
Units	Cts/S
Avg	84135.
Stddev	653.
%RSD	.77569

Sample Name: CalibStd=5 Acquired: 10/21/2013 14:11:21 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cu2247	Mn2576	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.003**	**.001**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	3.27	4.81	1.98	2.80	5.99	8.02	9.65	5.61	12.3

Int. Std.	Y_3600
Units	Cts/S
Avg	**84035.**
Stddev	321.
%RSD	.38216

Sample Name: CalibStd=10 Acquired: 10/21/2013 14:15:12 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mn2576	Mo2020	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.001	.000	.000	.006	.003	.001	.001	.001	.000	.000	.000	.000
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	4.29	1.66	.619	1.24	2.23	1.40	1.74	3.47	3.09	1.40	1.95	1.06

Elem	Pb2203	Sb2068	Sb2175	Se1960	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.000	.000	.000	.000	.000	.001	.000
Stddev	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	9.55	7.99	11.9	23.6	15.2	10.5	4.34	2.62

Int. Std.	Y_3600
Units	Cts/S
Avg	83142.
Stddev	516.
%RSD	.62042

Sample Name: CalibStd=20 Acquired: 10/21/2013 14:19:02 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ba4554	Cr2677	Cu2247	Fe2599	Mn2576	Mo2020	Sb2175	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.011**	**.002**	**.000**	**.000**	**.001**	**.000**	**.000**	**.003**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.26	1.74	2.67	1.11	1.48	3.06	12.5	3.72

Int. Std.	Y_3600
Units	Cts/S
Avg	**83741.**
Stddev	231.
%RSD	.27555

Sample Name: CalibStd=50 Acquired: 10/21/2013 14:22:50 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al1670	As1937	Ba4554	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599	Mg2802	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.000	.027	.057	.004	.003	.004	.001	.001	.000	.006	.002
Stddev	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	3.21	3.53	1.20	1.01	2.47	2.10	2.31	3.37	3.70	4.92	1.02	2.32

Elem	Mo2020	Mo2045	Ni2316	Sb2068	Se1960	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.001	.000	.002	.000	.000	.000	.000	.006	.002
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	2.67	3.67	2.81	3.74	4.58	5.51	2.47	2.89	2.45

Int. Std.	Y_3600
Units	Cts/S
Avg	82518.
Stddev	863.
%RSD	1.0461

Sample Name: CalibStd=100 Acquired: 10/21/2013 14:26:34 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	As1937	As1890	Ba4554	Ba4934	Be3130	Be2348	Ca3933	Cd2265	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.007	.000	.000	.053	.043	.024	.002	.103	.009	.014	.005	.009
Stddev	.000	.000	.000	.001	.001	.000	.000	.001	.000	.000	.000	.000
%RSD	.911	1.55	3.88	.958	1.21	1.29	1.54	1.26	1.47	1.25	1.50	.103

Elem	Cr2835	Cu2247	Cu3247	Fe2599	Mg2802	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.002	.002	.004	.001	.012	.004	.001	.001	.003	.004	.000	.001
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.74	2.69	1.87	2.34	1.15	.851	1.47	1.13	1.89	1.93	1.76	1.23

Elem	Sb2175	Se1960	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.000	.000	.000	.013	.004
Stddev	.000	.000	.000	.000	.000	.000
%RSD	2.43	6.75	.579	3.15	.651	1.58

Int. Std.	Y_3600
Units	Cts/S
Avg	82686.
Stddev	397.
%RSD	.47979

Sample Name: CalibStd=1000 Acquired: 10/21/2013 14:30:11 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3092	Al1670	As1937	As1890	Ba4934	Be2348	Ca3179	Ca3933	Cd2265	Cd2288	Co2286	Co2388
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.004**	**.002**	**.001**	**.451**	**.019**	**.019**	**.906**	**.085**	**.137**	**.051**	**.004**
Stddev	.000	.000	.000	.000	.011	.001	.000	.021	.001	.002	.001	.000
%RSD	2.71	1.52	.769	1.67	2.37	2.59	1.34	2.35	1.17	1.27	1.44	1.86

Elem	Cr2677	Cr2835	Cu2247	Cu3247	Fe2343	Fe2395	Fe2599	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.088**	**.017**	**.017**	**.023**	**.001**	**.002**	**.007**	**.110**	**.038**	**.050**	**.014**	**.008**
Stddev	.001	.000	.000	.001	.000	.000	.000	.003	.001	.001	.000	.000
%RSD	1.01	2.55	1.76	2.46	2.18	2.11	2.46	2.40	2.39	2.20	1.41	1.54

Elem	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se1960	Se2062	Tl2767	Tl1908	V_2908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.033**	**.037**	**.003**	**.008**	**.004**	**.004**	**.001**	**.003**	**.000**	**.000**	**.002**	**.009**
Stddev	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.51	1.31	1.24	1.11	.877	1.19	1.65	1.18	1.16	8.66	.878	2.52

Elem	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S
Avg	**.123**	**.046**	**.037**
Stddev	.001	.001	.001
%RSD	.973	1.67	1.56

Int. Std.	Y_3600
Units	Cts/S
Avg	**82988.**
Stddev	333.
%RSD	.40090

Sample Name: CalibStd=10000 Acquired: 10/21/2013 14:33:32 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3092	Al3961	As1890	Ba4554	Ba4934	Ca3179	Co2388	Cr2835	Cu2247	Cu3247	Fe2343	Fe2395
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.040**	**.092**	**.007**	**5.06**	**4.57**	**.102**	**.045**	**.170**	**.159**	**.229**	**.009**	**.019**
Stddev	.001	.002	.000	.24	.15	.003	.001	.004	.001	.007	.000	.000
%RSD	2.94	2.60	.617	4.77	3.23	2.66	2.70	2.43	.430	3.01	2.73	2.25

Elem	Fe2599	Mg2025	Mg2802	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se1960	Se1960	Se2062	Tl2767
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.076**	**.042**	**1.10**	**.514**	**.074**	**.322**	**.029**	**.040**	**.012**	**.024**	**.005**	**.003**
Stddev	.002	.000	.03	.015	.000	.001	.000	.000	.000	.000	.000	.000
%RSD	2.64	.377	2.63	2.85	.393	.442	.498	.454	.252	.725	.401	2.96

Elem	V_2908	Zn2062
Units	Cts/S	Cts/S
Avg	**.097**	**.441**
Stddev	.002	.002
%RSD	2.53	.496

Int. Std.	Y_3600
Units	Cts/S
Avg	**82772.**
Stddev	509.
%RSD	.61518

Sample Name: CalibStd-100k Acquired: 10/21/2013 14:37:42 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	As1890	Cr2835	Cu3247	Mn2593	Pb2169	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.061**	**1.75**	**2.30**	**4.92**	**.300**	**3.87**
Stddev	.000	.02	.04	.12	.002	.03
%RSD	.306	1.22	1.66	2.49	.570	.832

Int. Std.	Y_3600
Units	Cts/S
Avg	**82902.**
Stddev	135.
%RSD	.16234

Sample Name: CalibStd-100000 Acquired: 10/21/2013 14:41:50 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343	Fe2395	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.404**	**.897**	**.918**	**.092**	**.190**	**.381**
Stddev	.006	.015	.017	.001	.003	.003
%RSD	1.57	1.71	1.82	1.61	1.63	.772

Int. Std.	Y_3600
Units	Cts/S
Avg	**83174.**
Stddev	448.
%RSD	.53900

Sample Name: CalibStd=500000 Acquired: 10/21/2013 14:45:48 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.50**	**3.68**	**.441**	**1.57**
Stddev	.14	.11	.012	.01
%RSD	3.18	2.95	2.80	.833

Int. Std.	Y_3600
Units	Cts/S
Avg	**80999.**
Stddev	286.
%RSD	.35299

Sample Name: CalibStd-1000k Acquired: 10/21/2013 14:49:59 Type: Cal
Method: DOD Calibration 1(v1495) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8.71**	**6.75**	**.801**	**2.72**
Stddev	.42	.26	.027	.03
%RSD	4.83	3.86	3.40	1.01

Int. Std.	Y_3600
Units	Cts/S
Avg	**79406.**
Stddev	608.
%RSD	.76590

Sample Name: icv Acquired: 10/21/2013 14:58:08 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2343	Mg2025
Avg	**50.1**	**11400.**	**2060.**	**2060.**	**50.2**	**10300.**	**50.1**	**507.**	**202.**	**257.**	**5110.**	**9180.**
Stddev	.2	153.	11.	41.	.7	153.	.6	6.	1.	4.	59.	141.
%RSD	.437	1.34	.520	2.00	1.43	1.48	1.25	1.16	.431	1.42	1.16	1.53
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se2062	Tl2767	V_2924	Zn2138
Avg	**507.**	**497.**	**508.**	**511.**	**502.**	**2090.**	**2130.**	**509.**	**507.**
Stddev	7.	6.	5.	6.	4.	42.	53.	5.	6.
%RSD	1.43	1.21	1.06	1.19	.734	2.01	2.50	1.00	1.21
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**84295.**
Stddev	321.
%RSD	.38072

Sample Name: ICVLL Acquired: 10/21/2013 15:01:55 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**48.2**	**1200.**	**63.9**	**31.7**	**13.0**	**1640.**	**15.5**	**31.7**	**30.2**	**31.5**	**974.**	**1550.**
Stddev	1.2	48.	2.6	1.0	.5	61.	.5	.9	.2	.5	31.	53.
%RSD	2.58	4.00	4.02	3.16	3.93	3.70	3.26	2.84	.638	1.54	3.17	3.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**29.5**	**30.4**	**32.1**	**32.0**	**60.4**	**57.1**	**65.0**	**31.3**	**31.6**
Stddev	.6	1.1	.6	1.0	1.2	1.1	3.2	.5	1.1
%RSD	1.88	3.62	1.91	3.05	1.91	1.89	4.96	1.50	3.45
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**84634.**
Stddev	1088.
%RSD	1.2852

Sample Name: icb Acquired: 10/21/2013 15:09:34 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	.843	2.74	-1.05	-1.44	-.068	8.29	-1.12	-.071	-.637	.175	14.4	4.20
Stddev	.458	.30	2.59	.17	.026	.27	.04	.055	.054	.440	1.5	.06
%RSD	54.4	11.1	248.	12.1	38.8	3.28	3.10	77.2	8.53	251.	10.2	1.39
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	-1.03	-.615	.256	.302	1.52	-10.4	-.718	.177	.258
Stddev	.16	.330	.202	.650	1.43	2.3	1.92	.639	.291
%RSD	15.4	53.6	78.8	215.	94.1	21.8	268.	360.	113.
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	84203.
Stddev	497.
%RSD	.59025

Sample Name: MRL Acquired: 10/21/2013 15:13:24 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**29.8**	**412.**	**20.2**	**9.48**	**4.38**	**529.**	**4.35**	**10.5**	**9.79**	**10.6**	**316.**	**519.**
Stddev	.8	9.	.6	.23	.03	8.	.01	.1	.39	.4	3.	9.
%RSD	2.66	2.11	2.92	2.40	.757	1.51	.290	1.39	3.97	3.58	.805	1.67
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**9.31**	**9.07**	**11.3**	**9.34**	**18.8**	**11.1**	**22.7**	**10.5**	**10.6**
Stddev	.11	.31	.1	.76	2.3	2.8	2.8	.2	.3
%RSD	1.18	3.45	.902	8.15	12.4	25.2	12.4	1.60	2.58
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**83246.**
Stddev	406.
%RSD	.48788

Sample Name: icsa Acquired: 10/21/2013 15:17:19 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2343
Avg	.000	482000.	-.901	.000	.000	556000.	.000	-.137	.000	.000	437000.
Stddev	.674	23800.	5.04	.059	.169	28800.	.643	.363	.56	.358	16200.
%RSD	911e15	4.93	560.	282000.	261e15	5.19	6420000.	264.	901000.	96300.	3.70
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit											
Low Limit											

Elem	Mg2025	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	504000.	-.131	-.058	.002	.000	.000	.001	.000	.000	.001
Stddev	5220.	.891	.820	.543	1.64	4.43	1.81	2.76	.184	2.63
%RSD	1.04	679.	1400.	21900.	733000.	1380000.	349000.	5590000.	2400000.	457000.
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_3600
Avg	79851.
Stddev	223.
%RSD	.27975

Sample Name: icsab Acquired: 10/21/2013 15:21:31 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2343
Avg	**489.**	**481000.**	**525.**	**529.**	**500.**	**558000.**	**551.**	**543.**	**546.**	**500.**	**441000.**
Stddev	1.	15500.	15.	21.	15.	23000.	3.	19.	17.	21.	12400.
%RSD	.219	3.22	2.88	4.00	2.94	4.12	.549	3.49	3.14	4.25	2.81
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Mg2025	Mn2576	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl2767	V_2908	Zn2062
Avg	**502000.**	**495.**	**530.**	**509.**	**482.**	**474.**	**447.**	**573.**	**538.**	**425.**
Stddev	2480.	15.	3.	4.	34.	4.	16.	----	19.	2.
%RSD	.493	3.05	.659	.749	7.07	.801	3.56	188.	3.54	.450
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**80035.**
Stddev	536.
%RSD	.66988

Sample Name: ccv1 Acquired: 10/22/2013 03:12:21 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2343
Avg	**552.**	**4870.**	**4870.**	**4740.**	**4870.**	**530.**	**5160.**	**468.**	**4990.**	**4760.**	**4840.**	**5350.**
Stddev	2.	110.	115.	7.	104.	13.	111.	.	138.	116.	142.	89.
%RSD	.301	2.25	2.36	.147	2.14	2.48	2.15	.035	2.77	2.43	2.94	1.67
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Fe2395	Fe2599	Mg2802	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062	Tl2767
Avg	**5130.**	**4940.**	**4880.**	**4900.**	**4850.**	**4850.**	**4730.**	**4780.**	**4640.**	**4730.**	**4840.**	**4760.**
Stddev	78.	101.	121.	127.	16.	7.	9.	11.	9.	21.	2.	188.
%RSD	1.52	2.04	2.47	2.59	.330	.150	.194	.220	.194	.434	.033	3.96
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Tl1908	V_2908	Zn2062
Avg	**4570.**	**4770.**	**4830.**
Stddev	20.	117.	11.
%RSD	.440	2.45	.231
Check ?	None	None	None
Value			
Range			

Sample Name: ccv1 Acquired: 10/22/2013 03:12:21 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_3600
Avg	88060.
Stddev	191.
%RSD	.21656

Sample Name: ccv2 Acquired: 10/22/2013 03:16:17 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**48.7**	**498.**	**490.**	**514.**	**49.8**	**505.**	**48.7**	**487.**	**488.**	**499.**	**505.**	**500.**
Stddev	.1	6.	4.	6.	.5	6.	.4	6.	5.	6.	1.	5.
%RSD	.172	1.25	.915	1.17	.957	1.22	.910	1.16	.960	1.20	.237	1.05
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**502.**	**494.**	**489.**	**486.**	**478.**	**494.**	**484.**	**489.**	**477.**
Stddev	5.	6.	5.	7.	3.	6.	3.	3.	6.
%RSD	1.02	1.19	.932	1.37	.678	1.25	.611	.712	1.34
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**87524.**
Stddev	33.
%RSD	.03763

Sample Name: ccb Acquired: 10/22/2013 03:19:49 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	.845	-.055	-.305	-1.37	.013	-5.80	-1.21	.238	-.101	-.036	4.24	-.587
Stddev	.501	.380	1.43	.09	.079	.04	.30	.142	.293	.444	1.14	.012
%RSD	59.3	689.	469.	6.79	608.	.603	24.7	59.5	292.	1250.	26.8	2.00
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	-.771	1.91	.657	-.851	1.56	-8.16	.236	.648	-.140
Stddev	.538	.20	.506	.758	2.35	1.77	.894	.298	.146
%RSD	69.7	10.5	77.0	89.1	150.	21.7	378.	46.0	104.
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	89012.
Stddev	384.
%RSD	.43180

Sample Name: lcss46442 Acquired: 10/22/2013 03:27:30 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Co2388	Cr2677	Cr2835	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**85.1**	**3440.**	**3380.**	**3770.**	**89.6**	**81.8**	**88.3**	**896.**	**904.**	**363.**	**414.**	**442.**
Stddev	1.6	39.	73.	92.	1.9	7.3	1.6	18.	17.	6.	7.	11.
%RSD	1.91	1.14	2.15	2.45	2.08	8.89	1.80	2.03	1.91	1.69	1.65	2.39

Elem	Cu3247	Fe2395	Fe2599	Mg2802	Mn2576	Mn2593	Mo2020	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**452.**	**2030.**	**2020.**	**35.9**	**899.**	**771.**	**1.06**	**894.**	**889.**	**871.**	**868.**	**880.**
Stddev	10.	19.	16.	4.6	21.	21.	.52	20.	18.	15.	17.	18.
%RSD	2.25	.951	.810	12.7	2.28	2.74	49.2	2.23	2.07	1.67	1.97	2.06

Elem	Sb2175	Se1960	Se2062	Tl2767	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**842.**	**3150.**	**3240.**	**3770.**	**3340.**	**875.**	**906.**	**870.**	**833.**
Stddev	14.	35.	64.	105.	50.	22.	14.	18.	17.
%RSD	1.67	1.12	1.99	2.79	1.50	2.50	1.56	2.12	2.06

Int. Std.	Y_3600
Units	Cts/S
Avg	**89425.**
Stddev	878.
%RSD	.98178

Sample Name: mbs46442 Acquired: 10/22/2013 03:30:57 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.328	15.5	.682	.331	-.027	17.5	-1.36	-.160	-.121	-.378	42.3	4.73
Stddev	.513	.3	1.94	.457	.091	.7	.07	.185	.411	.341	1.4	.13
%RSD	157.	1.89	285.	138.	332.	4.21	5.52	116.	341.	90.1	3.34	2.66

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.471	-.054	-.351	.017	-.680	-7.01	5.82	.592	4.22
Stddev	.560	.102	.692	.979	.238	1.65	4.29	.323	.08
%RSD	119.	190.	197.	5800.	35.1	23.5	73.7	54.5	2.00

Int. Std.	Y_3600
Units	Cts/S
Avg	88913.
Stddev	70.
%RSD	.07833

Sample Name: 381281 Acquired: 10/22/2013 03:34:50 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1937	As1890	Ba4934	Be3130	Ca3179	Cd2265	Cd2288	Co2286	Co2388
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.677	215000.	412.	377.	2540.	23.9	65400.	-.027	140.	422.	525.
Stddev	.208	6320.	10.	15.	72.	.8	2140.	1.14	4.	5.	12.
%RSD	30.8	2.94	2.46	3.97	2.86	3.15	3.27	4230.	2.88	1.30	2.22

Elem	Cr2677	Cr2835	Cu3247	Fe2343	Mg2025	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169
Units	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	369.	461.	10400.	697000.	28900.	27500.	40.3	117.	486.	442.	75100.
Stddev	4.	21.	297.	20800.	525.	859.	.6	3.	6.	5.	844.
%RSD	1.09	4.56	2.85	2.99	1.82	3.12	1.39	2.82	1.26	1.14	1.12

Elem	Sb2068	Sb2175	Se1960	Tl1908	V_2908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	477.	423.	66.0	37.8	653.	560.	2650.
Stddev	5.	6.	1.5	5.2	17.	6.	26.
%RSD	.998	1.46	2.24	13.8	2.55	1.03	.985

Int. Std.	Y_3600
Units	Cts/S
Avg	89237.
Stddev	418.
%RSD	.46828

Sample Name: 381282 Acquired: 10/22/2013 03:38:35 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1937	As1890	Ba4934	Be3130	Ca3179	Cd2265	Cd2288	Co2286	Co2388
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-2.00**	**221000.**	**347.**	**337.**	**2510.**	**23.1**	**128000.**	**3.03**	**131.**	**356.**	**438.**
Stddev	.79	10600.	7.	13.	115.	1.2	6400.	1.39	6.	9.	17.
%RSD	39.6	4.80	1.99	3.85	4.59	5.06	5.01	45.8	4.45	2.49	3.86

Elem	Cr2677	Cr2835	Cu3247	Fe2343	Mg2025	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169
Units	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**381.**	**448.**	**1390.**	**638000.**	**30700.**	**21200.**	**39.0**	**110.**	**463.**	**409.**	**8390.**
Stddev	7.	17.	64.	29300.	789.	1020.	.8	3.	13.	10.	175.
%RSD	1.91	3.88	4.60	4.60	2.57	4.82	2.14	2.50	2.83	2.41	2.09

Elem	Sb2175	Se1960	Tl1908	V_2908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**68.8**	**36.0**	**6.08**	**648.**	**575.**	**1690.**
Stddev	7.1	4.3	1.95	33.	11.	38.
%RSD	10.3	11.8	32.0	5.10	1.85	2.21

Int. Std.	Y_3600
Units	Cts/S
Avg	**87558.**
Stddev	1032.
%RSD	1.1788

Sample Name: I381282 Acquired: 10/22/2013 03:42:20 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	As1937	Ba4554	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.291	52200.	52000.	82.9	605.	606.	5.40	31000.	-1.43	89.6	94.2
Stddev	.211	3040.	3050.	4.7	39.	39.	.28	1850.	.44	3.0	3.2
%RSD	72.6	5.83	5.86	5.67	6.37	6.37	5.28	5.97	30.7	3.35	3.44

Elem	Cu2247	Fe2343	Mg2025	Mg2802	Mn2593	Mo2020	Ni2316	Pb2169	Sb2175	Se1960	Tl1908
Units	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	320.	166000.	7370.	8810.	5100.	8.08	104.	2010.	17.3	-.759	4.68
Stddev	10.	8970.	265.	438.	315.	.82	3.	60.	.8	2.66	.34
%RSD	3.23	5.41	3.60	4.97	6.18	10.2	3.28	3.00	4.86	350.	7.36

Elem	V_2924	Zn2062	Zn2138
Units	ug/L	ug/L	ug/L
Avg	141.	429.	421.
Stddev	5.	15.	14.
%RSD	3.47	3.42	3.44

Int. Std.	Y_3600
Units	Cts/S
Avg	90270.
Stddev	3064.
%RSD	3.3937

Sample Name: dup381282 Acquired: 10/22/2013 03:46:12 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1937	As1890	Ba4934	Be3130	Ca3179	Cd2265	Cd2288	Co2286	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-2.39**	**231000.**	**353.**	**336.**	**2490.**	**23.5**	**131000.**	**.922**	**138.**	**289.**	**371.**
Stddev	.14	6880.	5.	8.	71.	.8	4480.	.876	4.	5.	6.
%RSD	6.04	2.98	1.39	2.42	2.83	3.54	3.42	95.0	2.96	1.88	1.51

Elem	Cr2835	Cu3247	Fe2343	Mg2025	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Sb2175
Units	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**442.**	**1350.**	**675000.**	**31000.**	**20500.**	**38.7**	**113.**	**456.**	**400.**	**7570.**	**67.4**
Stddev	14.	39.	20700.	605.	637.	1.1	3.	9.	6.	99.	6.0
%RSD	3.26	2.88	3.07	1.95	3.12	2.91	2.46	1.91	1.49	1.31	8.98

Elem	Se1960	Tl1908	V_2908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**34.3**	**6.99**	**664.**	**575.**	**1650.**
Stddev	3.1	1.33	29.	5.	36.
%RSD	8.93	19.0	4.35	.825	2.16

Int. Std.	Y_3600
Units	Cts/S
Avg	**87291.**
Stddev	556.
%RSD	.63714

Sample Name: mss381282 Acquired: 10/22/2013 03:49:58 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2265	Cd2288	Co2388	Cr2677	Cr2835
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**78.8**	**254000.**	**3460.**	**6060.**	**156.**	**139000.**	**78.1**	**221.**	**1260.**	**733.**	**810.**
Stddev	1.1	7330.	15.	412.	6.	5560.	1.8	5.	34.	4.	34.
%RSD	1.39	2.88	.443	6.80	3.74	3.99	2.31	2.15	2.72	.592	4.25

Elem	Cu3247	Fe2343	Mg2025	Mn2593	Mo2020	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960
Units	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1820.**	**654000.**	**32300.**	**21700.**	**39.8**	**113.**	**1260.**	**8320.**	**228.**	**245.**	**2900.**
Stddev	83.	23800.	71.	870.	.3	2.	10.	38.	3.	2.	57.
%RSD	4.53	3.64	.220	4.00	.858	2.03	.796	.454	1.41	1.01	1.97

Elem	Se2062	Tl2767	Tl1908	V_2908	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2990.**	**2930.**	**2560.**	**1530.**	**2530.**
Stddev	17.	184.	9.	52.	21.
%RSD	.566	6.28	.359	3.40	.838

Int. Std.	Y_3600
Units	Cts/S
Avg	**87299.**
Stddev	455.
%RSD	.52174

Sample Name: msds381282 Acquired: 10/22/2013 03:53:56 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2265	Cd2288	Co2388	Cr2677	Cr2835
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**81.9**	**246000.**	**3570.**	**6230.**	**160.**	**138000.**	**80.8**	**229.**	**1300.**	**764.**	**847.**
Stddev	1.6	8920.	30.	236.	7.	6760.	2.9	6.	57.	5.	35.
%RSD	1.91	3.62	.850	3.80	4.37	4.89	3.61	2.64	4.41	.671	4.16

Elem	Cu3247	Fe2343	Mg2025	Mn2593	Mo2020	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960
Units	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1830.**	**681000.**	**32400.**	**21800.**	**42.5**	**119.**	**1300.**	**8670.**	**152.**	**171.**	**2880.**
Stddev	90.	29400.	135.	1090.	.4	3.	6.	46.	5.	6.	32.
%RSD	4.91	4.32	.415	4.99	.889	2.51	.497	.525	3.09	3.41	1.09

Elem	Se2062	Tl2767	Tl1908	V_2908	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3020.**	**2660.**	**2640.**	**1610.**	**2570.**
Stddev	28.	197.	3.	82.	11.
%RSD	.937	7.38	.097	5.08	.420

Int. Std.	Y_3600
Units	Cts/S
Avg	**89540.**
Stddev	557.
%RSD	.62165

Sample Name: pdss381282 Acquired: 10/22/2013 03:57:55 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2265	Cd2288	Co2388	Cr2677	Cr2835
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**88.5**	**227000.**	**3750.**	**6200.**	**162.**	**543000.**	**80.4**	**225.**	**1290.**	**684.**	**769.**
Stddev	.1	7690.	28.	243.	6.	17500.	1.1	4.	37.	1.	21.
%RSD	.150	3.39	.748	3.92	3.92	3.22	1.33	1.83	2.86	.204	2.74

Elem	Cu3247	Fe2343	Mg2025	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062
Units	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1780.**	**636000.**	**197000.**	**19700.**	**1460.**	**1260.**	**7870.**	**888.**	**900.**	**3330.**	**3370.**
Stddev	56.	18000.	1570.	667.	13.	10.	31.	3.	7.	28.	32.
%RSD	3.15	2.83	.795	3.39	.896	.786	.397	.385	.739	.827	.939

Elem	Tl2767	Tl1908	V_2908	Zn2062
Units	ug/L	ug/L	ug/L	ug/L
Avg	**4400.**	**2650.**	**1540.**	**2260.**
Stddev	391.	9.	57.	15.
%RSD	8.89	.349	3.68	.679

Int. Std.	Y_3600
Units	Cts/S
Avg	**86899.**
Stddev	369.
%RSD	.42443

Sample Name: ccv1 Acquired: 10/22/2013 04:01:48 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2343
Avg	**554.**	**4870.**	**4890.**	**4680.**	**5000.**	**528.**	**5210.**	**466.**	**5000.**	**4780.**	**4920.**	**5520.**
Stddev	4.	127.	133.	36.	211.	17.	126.	2.	148.	127.	146.	80.
%RSD	.648	2.61	2.72	.767	4.21	3.24	2.42	.438	2.95	2.66	2.98	1.45
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Fe2395	Mg2802	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062	Tl2767	Tl1908
Avg	**5250.**	**4900.**	**4920.**	**4820.**	**4800.**	**4740.**	**4760.**	**4620.**	**4710.**	**4800.**	**5010.**	**4620.**
Stddev	87.	130.	149.	25.	28.	10.	28.	27.	21.	26.	174.	11.
%RSD	1.66	2.66	3.02	.509	.592	.206	.592	.585	.436	.541	3.47	.245
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	V_2908	Zn2062
Avg	**4810.**	**4790.**
Stddev	151.	29.
%RSD	3.13	.597
Check ?	None	None
Value		
Range		

Sample Name: ccv1 Acquired: 10/22/2013 04:01:48 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_3600
Avg	88764.
Stddev	564.
%RSD	.63536

Sample Name: ccv2 Acquired: 10/22/2013 04:05:47 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**48.6**	**490.**	**486.**	**507.**	**48.8**	**495.**	**48.0**	**480.**	**479.**	**490.**	**497.**	**486.**
Stddev	1.1	13.	10.	8.	.8	8.	.9	10.	4.	13.	11.	7.
%RSD	2.15	2.67	2.09	1.64	1.66	1.55	1.91	1.98	.768	2.67	2.30	1.44
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**490.**	**486.**	**482.**	**482.**	**471.**	**488.**	**479.**	**477.**	**469.**
Stddev	8.	11.	9.	9.	6.	8.	4.	5.	11.
%RSD	1.70	2.19	1.89	1.95	1.26	1.73	.876	1.07	2.24
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**88802.**
Stddev	383.
%RSD	.43163

Sample Name: ccb Acquired: 10/22/2013 04:09:18 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	.774	.613	.094	-.892	-.040	-4.92	-1.12	.099	-.066	-.228	7.01	-.455
Stddev	.483	.513	1.74	.141	.059	.16	.02	.221	.223	.103	2.00	.137
%RSD	62.3	83.7	1850.	15.8	146.	3.29	2.11	223.	337.	45.0	28.6	30.1
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	-.547	1.89	.681	-.551	.459	-8.16	3.99	1.17	.188
Stddev	.087	.33	.090	.733	1.34	1.14	.69	.11	.168
%RSD	16.0	17.7	13.2	133.	291.	13.9	17.2	9.41	89.3
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	87228.
Stddev	1024.
%RSD	1.1741

Sample Name: 381283 Acquired: 10/22/2013 04:13:14 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1937	As1890	Ba4934	Be3130	Ca3179	Cd2265	Cd2288	Co2286	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.807**	**202000.**	**343.**	**321.**	**2510.**	**23.6**	**83800.**	**.636**	**121.**	**286.**	**375.**
Stddev	.154	4070.	9.	9.	46.	.5	2100.	.784	3.	2.	.
%RSD	19.1	2.02	2.56	2.80	1.82	2.07	2.50	123.	2.22	.706	.133

Elem	Cr2835	Cu2247	Cu3247	Fe2343	Mg2025	Mn2593	Mo2020	Ni2316	Pb2169	Sb2175	Se1960
Units	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**446.**	**807.**	**920.**	**584000.**	**25300.**	**19000.**	**33.5**	**300.**	**3570.**	**43.1**	**54.1**
Stddev	11.	10.	19.	13500.	271.	413.	1.4	4.	14.	1.9	1.5
%RSD	2.41	1.28	2.01	2.31	1.07	2.17	4.04	1.33	.401	4.42	2.70

Elem	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**35.0**	**614.**	**530.**	**1430.**	**1410.**
Stddev	2.4	12.	2.	14.	12.
%RSD	6.99	1.93	.464	.947	.880

Int. Std.	Y_3600
Units	Cts/S
Avg	**87099.**
Stddev	421.
%RSD	.48290

Sample Name: 381284 Acquired: 10/22/2013 04:16:59 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1937	As1890	Ba4934	Be3130	Ca3179	Cd2265	Cd2288	Co2286	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.789	138000.	335.	301.	2190.	25.4	98300.	6.10	120.	233.	274.
Stddev	.660	4510.	3.	14.	75.	.9	3360.	1.08	4.	3.	1.
%RSD	83.6	3.26	1.03	4.80	3.42	3.55	3.42	17.8	3.10	1.12	.392

Elem	Cu3247	Fe2343	Mg2025	Mn2593	Mo2020	Ni2316	Pb2169	Sb2068	Sb2175	Se1960	Tl1908
Units	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	11500.	559000.	18000.	16000.	36.0	335.	73700.	555.	498.	26.1	10.2
Stddev	392.	18000.	231.	550.	.4	4.	621.	8.	7.	3.8	2.3
%RSD	3.41	3.21	1.29	3.43	1.19	1.07	.842	1.53	1.43	14.4	22.2

Elem	V_2908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	452.	385.	3180.
Stddev	17.	2.	30.
%RSD	3.69	.389	.926

Int. Std.	Y_3600
Units	Cts/S
Avg	87432.
Stddev	130.
%RSD	.14912

Sample Name: 381289 Acquired: 10/22/2013 04:20:44 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1937	As1890	Ba4934	Be3130	Ca3179	Cd2265	Cd2288	Co2286	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-2.69**	**245000.**	**312.**	**307.**	**2930.**	**23.3**	**137000.**	**1.91**	**130.**	**232.**	**381.**
Stddev	.30	3190.	13.	7.	101.	.8	4800.	1.24	4.	4.	2.
%RSD	11.0	1.30	4.00	2.16	3.44	3.56	3.49	65.0	3.38	1.57	.595

Elem	Cr2835	Cu3247	Fe2343	Mg2025	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Sb2175
Units	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**450.**	**1310.**	**627000.**	**32000.**	**15000.**	**47.1**	**117.**	**455.**	**405.**	**6030.**	**64.2**
Stddev	15.	43.	20900.	561.	514.	1.7	4.	9.	6.	82.	3.6
%RSD	3.42	3.31	3.33	1.75	3.42	3.61	3.27	1.91	1.42	1.35	5.68

Elem	Se1960	Tl1908	V_2908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**28.0**	**4.78**	**646.**	**573.**	**1680.**
Stddev	1.9	4.71	26.	5.	26.
%RSD	6.74	98.7	4.02	.876	1.53

Int. Std.	Y_3600
Units	Cts/S
Avg	**89006.**
Stddev	236.
%RSD	.26477

Sample Name: 381291 Acquired: 10/22/2013 04:24:32 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1937	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-1.89	167000.	355.	343.	2520.	20.0	349000.	3.54	164.	306.	530.
Stddev	.58	6110.	15.	17.	99.	.7	10800.	.77	1.	4.	8.
%RSD	30.7	3.67	4.14	4.86	3.92	3.70	3.08	21.6	.817	1.28	1.44

Elem	Cu3247	Fe2343	Mg2025	Mn2593	Mo2020	Ni2316	Pb2169	Sb2175	Se1960	Tl1908	V_2908
Units	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	611.	456000.	22200.	14000.	40.5	284.	2230.	36.8	24.5	5.58	550.
Stddev	23.	15700.	290.	512.	.4	3.	5.	2.8	4.1	2.55	20.
%RSD	3.71	3.44	1.30	3.65	.922	.992	.212	7.50	16.6	45.7	3.55

Elem	V_2924	Zn2062
Units	ug/L	ug/L
Avg	483.	1630.
Stddev	3.	16.
%RSD	.709	.968

Int. Std.	Y_3600
Units	Cts/S
Avg	87780.
Stddev	85.
%RSD	.09729

Sample Name: 381292 Acquired: 10/22/2013 04:28:28 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1937	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.75**	**156000.**	**366.**	**342.**	**3030.**	**19.2**	**645000.**	**2.71**	**150.**	**291.**	**495.**
Stddev	.37	5990.	7.	10.	119.	.9	31500.	.74	2.	3.	9.
%RSD	21.2	3.84	1.90	2.89	3.91	4.59	4.88	27.4	1.41	.904	1.81

Elem	Cu3247	Fe2343	Mg2025	Mn2593	Mo2020	Ni2316	Pb2169	Sb2175	Se1960	Tl1908	V_2908
Units	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**585.**	**435000.**	**21400.**	**13700.**	**36.6**	**256.**	**2130.**	**35.2**	**22.4**	**6.89**	**518.**
Stddev	25.	16100.	405.	525.	1.3	4.	29.	2.0	3.5	1.32	21.
%RSD	4.34	3.70	1.89	3.82	3.44	1.58	1.34	5.58	15.6	19.2	3.97

Elem	V_2924	Zn2062
Units	ug/L	ug/L
Avg	**453.**	**1630.**
Stddev	7.	24.
%RSD	1.61	1.48

Int. Std.	Y_3600
Units	Cts/S
Avg	**86705.**
Stddev	768.
%RSD	.88520

Sample Name: 381294 Acquired: 10/22/2013 04:32:23 Type: Unk
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1937	As1890	Ba4934	Be3130	Ca3179	Cd2265	Cd2288	Co2286	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-2.36**	**216000.**	**322.**	**312.**	**2330.**	**19.5**	**172000.**	**.985**	**114.**	**208.**	**363.**
Stddev	.34	6520.	4.	4.	73.	.7	5790.	.887	3.	2.	2.
%RSD	14.4	3.02	1.21	1.34	3.14	3.48	3.36	90.0	2.92	1.07	.655

Elem	Cr2835	Cu2247	Cu3247	Fe2343	Mg2025	Mn2593	Mo2020	Mo2045	Ni2316	Pb2169	Sb2175
Units	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**426.**	**465.**	**519.**	**551000.**	**20700.**	**16100.**	**38.8**	**102.**	**256.**	**2330.**	**54.8**
Stddev	9.	7.	19.	16800.	330.	491.	1.1	3.	4.	33.	.6
%RSD	2.11	1.59	3.75	3.05	1.59	3.06	2.80	2.59	1.49	1.40	1.03

Elem	Se1960	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**30.3**	**8.25**	**668.**	**603.**	**1130.**	**1110.**
Stddev	3.2	5.72	24.	3.	13.	11.
%RSD	10.6	69.3	3.64	.533	1.14	1.01

Int. Std.	Y_3600
Units	Cts/S
Avg	**88104.**
Stddev	258.
%RSD	.29298

Sample Name: ccv1 Acquired: 10/22/2013 04:51:16 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2343
Avg	**552.**	**4840.**	**4850.**	**4710.**	**4870.**	**529.**	**5120.**	**467.**	**4970.**	**4730.**	**4840.**	**5430.**
Stddev	4.	104.	105.	45.	203.	10.	125.	3.	88.	94.	164.	96.
%RSD	.741	2.15	2.16	.957	4.17	1.94	2.44	.675	1.78	1.99	3.39	1.77
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Fe2395	Fe2599	Mg2802	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062	Tl2767
Avg	**5180.**	**4950.**	**4840.**	**4860.**	**4840.**	**4830.**	**4720.**	**4770.**	**4630.**	**4730.**	**4800.**	**4790.**
Stddev	75.	71.	110.	124.	44.	41.	42.	38.	32.	38.	53.	209.
%RSD	1.44	1.44	2.27	2.54	.909	.856	.887	.789	.697	.809	1.10	4.36
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Tl1908	V_2908	Zn2062
Avg	**4600.**	**4760.**	**4830.**
Stddev	25.	110.	36.
%RSD	.542	2.30	.744
Check ?	None	None	None
Value			
Range			

Sample Name: ccv1 Acquired: 10/22/2013 04:51:16 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_3600
Avg	88246.
Stddev	529.
%RSD	.59958

Sample Name: ccv2 Acquired: 10/22/2013 04:55:15 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**47.6**	**489.**	**486.**	**499.**	**47.9**	**484.**	**48.3**	**482.**	**470.**	**489.**	**489.**	**478.**
Stddev	.4	5.	3.	4.	.4	4.	.5	6.	4.	5.	2.	2.
%RSD	.829	.931	.630	.795	.791	.731	.948	1.24	.880	1.10	.482	.492
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**481.**	**489.**	**485.**	**481.**	**470.**	**487.**	**480.**	**470.**	**467.**
Stddev	.	3.	5.	5.	3.	4.	7.	3.	5.
%RSD	.095	.654	1.07	.959	.687	.765	1.44	.580	1.04
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**88483.**
Stddev	636.
%RSD	.71918

Sample Name: ccb Acquired: 10/22/2013 04:58:45 Type: QC
Method: DOD Calibration 1(v1495) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**1.11**	**.137**	**-1.06**	**-1.00**	**-.069**	**-5.02**	**-1.14**	**.373**	**-.362**	**.232**	**9.39**	**-.720**
Stddev	.47	.468	1.52	.11	.109	.35	.04	.090	.515	.377	1.53	.144
%RSD	42.4	341.	143.	11.3	158.	6.89	3.54	24.0	142.	163.	16.3	20.0
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**-.867**	**1.97**	**1.05**	**.491**	**-.115**	**-6.74**	**2.60**	**.892**	**.105**
Stddev	.358	.63	.07	.141	2.75	2.73	2.81	.517	.037
%RSD	41.3	32.1	6.80	28.8	2390.	40.5	108.	57.9	35.0
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

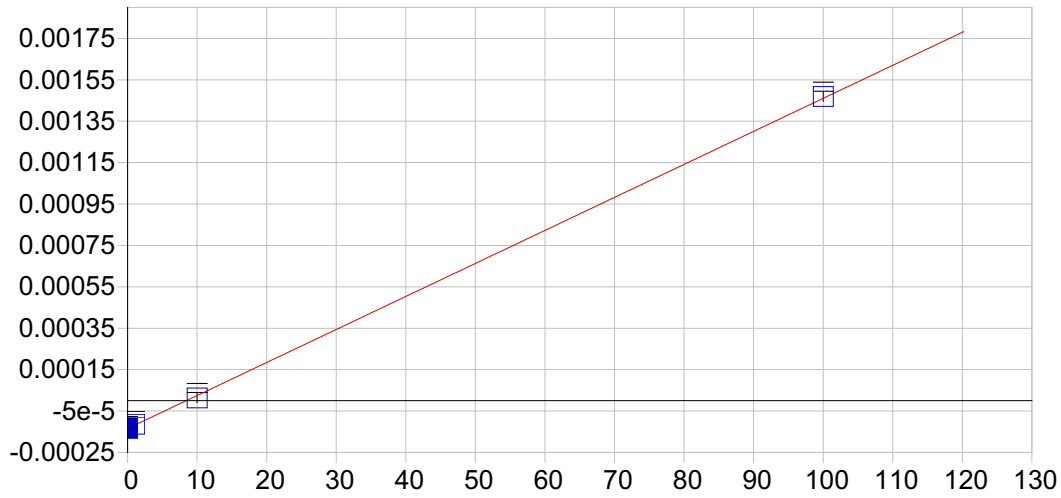
Int. Std.	Y_3600
Avg	**88785.**
Stddev	528.
%RSD	.59447

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
Ag 328.068 {103}	10/29/2013 15:02:00	10/23/2013 15:40:40	Linear	1/Conc	-0.000134	0.000016	0.000000	1.000000	0.999391	0.000000	2.043993	6.813310
Al 309.271 {109}	10/29/2013 15:02:00	10/23/2013 15:56:04	Curvilin	1/Conc	0.000147	0.000003	0.000000	1.000000	0.999995	0.000006	13.809528	46.031761
Al 396.152 { 85}	10/29/2013 15:02:00	10/23/2013 16:04:23	Curvilin	1/Conc	0.000114	0.000008	0.000000	1.000000	0.999695	0.001104	6.793780	22.645933
Al 167.079 {502}	10/29/2013 15:02:00	10/23/2013 15:44:09	Linear	None	0.000022	0.000003	0.000000	1.000000	0.999957	0.000013	0.818782	2.729274
As 193.759 {474}	10/29/2013 15:02:00	10/23/2013 15:44:09	Linear	None	0.000001	0.000001	0.000000	1.000000	0.999991	0.000002	4.163440	13.878135
As 189.042 {479}	10/29/2013 15:02:00	10/23/2013 15:52:01	Curvilin	1/Conc	-0.000002	0.000000	0.000000	1.000000	0.999991	0.000000	6.749870	22.499566
Ba 455.403 { 74}	10/29/2013 15:02:00	10/23/2013 15:47:51	Linear	None	0.000757	0.000439	0.000000	1.000000	1.000000	0.000799	0.149857	0.499523
Ba 493.409 { 68}	10/29/2013 15:02:00	10/23/2013 15:47:51	Linear	None	-0.002305	0.000343	0.000000	1.000000	0.999999	0.002159	0.430783	1.435944
Be 313.042 {108}	10/29/2013 15:02:00	10/23/2013 15:40:40	Linear	None	-0.000246	0.000167	0.000000	1.000000	1.000000	0.000004	0.118119	0.393730
Be 234.861 {144}	10/29/2013 15:02:00	10/23/2013 15:44:09	Linear	1/Conc	0.000001	0.000016	0.000000	1.000000	1.000000	0.000000	0.535559	1.785196
Ca 317.933 {106}	10/29/2013 15:02:00	10/23/2013 16:04:23	Curvilin	1/Conc	0.009858	0.000005	0.000000	1.000000	0.999913	0.000097	3.639052	12.130174
Ca 393.366 { 86}	10/29/2013 15:02:00	10/23/2013 15:44:09	Linear	None	0.007302	0.000911	0.000000	1.000000	0.999979	0.003442	0.040660	0.135534
Ca 396.847 { 85}	10/29/2013 15:02:00	10/23/2013 15:47:51	Linear	None	0.008874	0.000432	0.000000	1.000000	0.999994	0.008770	0.070906	0.236353
Cd 226.502 {449}	10/29/2013 15:02:00	10/23/2013 15:44:09	Linear	None	-0.000004	0.000019	0.000000	1.000000	0.999998	0.000015	0.396871	1.322904
Cd 228.802 {447}	10/29/2013 15:02:00	10/23/2013 15:44:09	Linear	1/Conc	0.000010	0.000049	0.000000	1.000000	0.999956	0.000008	0.198887	0.662958
Co 228.616 {447}	10/29/2013 15:02:00	10/23/2013 15:44:09	Linear	1/Conc	0.000001	0.000032	0.000000	1.000000	0.999918	0.000001	0.249971	0.833238
Co 238.892 {141}	10/29/2013 15:02:00	10/23/2013 15:47:51	Linear	1/Conc	0.000026	0.000003	0.000000	1.000000	0.999995	0.000002	3.831861	12.772871
Cr 267.716 {126}	10/29/2013 15:02:00	10/23/2013 15:44:09	Linear	None	0.000006	0.000023	0.000000	1.000000	0.999992	0.000041	1.378876	4.596252
Cr 283.563 {119}	10/29/2013 15:02:00	10/23/2013 15:52:01	Linear	None	-0.000397	0.000010	0.000000	1.000000	0.999998	0.000897	1.773840	5.912800
Cu 224.700 {450}	10/29/2013 15:02:00	10/23/2013 15:47:51	Linear	1/Conc	0.000002	0.000015	0.000000	1.000000	0.999822	0.000002	0.511712	1.705706
Cu 324.754 {104}	10/29/2013 15:02:00	10/23/2013 15:52:01	Curvilin	1/Conc	0.000479	0.000007	0.000000	1.000000	1.000000	0.000001	4.179276	13.930919
Cu 327.396 {103}	10/29/2013 15:02:00	10/23/2013 15:52:01	Linear	1/Conc	-0.000206	0.000006	0.000000	1.000000	0.999983	0.000002	5.367347	17.891156
Fe 234.349 {144}	10/29/2013 15:02:00	10/23/2013 16:04:23	Full Fit	1/Conc	0.000014	0.000000	0.000000	1.040000	0.999931	0.000011	19.440680	64.802268
Fe 239.562 {141}	10/29/2013 15:02:00	10/23/2013 15:56:04	Linear	None	0.000220	0.000001	0.000000	1.000000	0.999989	0.000324	5.777425	19.258085
Fe 259.940 {130}	10/29/2013 15:02:00	10/23/2013 15:47:51	Linear	None	0.000049	0.000004	0.000000	1.000000	0.999999	0.000025	2.930142	9.767141
Mg 202.582 {466}	10/29/2013 15:02:00	10/23/2013 16:04:23	Full Fit	1/Conc	-0.000030	0.000003	-0.000000	0.980000	0.999968	0.000137	1.805468	6.018227
Mg 279.079 {121}	10/29/2013 15:02:00	10/23/2013 16:04:23	Linear	1/Conc	-0.000001	0.000000	0.000000	1.000000	0.999572	0.000037	33.189472	110.631574
Mg 280.270 {120}	10/29/2013 15:02:00	10/23/2013 15:47:51	Linear	None	0.000886	0.000078	0.000000	1.000000	0.999996	0.001038	0.120922	0.403073
Mn 257.610 {131}	10/29/2013 15:02:00	10/23/2013 15:44:09	Linear	None	0.000013	0.000024	0.000000	1.000000	0.999994	0.000033	0.397698	1.325662
Mn 259.373 {130}	10/29/2013 15:02:00	10/23/2013 15:52:01	Linear	None	0.003878	0.000029	0.000000	1.000000	0.999993	0.006228	0.539339	1.797798
Mo 203.844 {465}	10/29/2013 15:02:00	10/23/2013 15:44:09	Linear	1/Conc	0.000020	0.000011	0.000000	1.000000	0.999919	0.000000	0.568130	1.893766
Mo 202.030 {467}	10/29/2013 15:02:00	10/23/2013 15:44:09	Linear	None	0.000011	0.000010	0.000000	1.000000	0.999995	0.000014	0.404407	1.348023
Mo 204.598 {465}	10/29/2013 15:02:00	10/23/2013 15:47:51	Linear	None	0.000038	0.000005	0.000000	1.000000	0.999997	0.000058	0.970917	3.236390
Ni 221.647 {452}	10/29/2013 15:02:00	10/23/2013 15:47:52	Linear	None	0.000459	0.000021	0.000000	1.000000	0.999984	0.000697	0.450120	1.500399
Ni 231.604 {445}	10/29/2013 15:02:00	10/23/2013 15:44:09	Linear	1/Conc	0.000004	0.000023	0.000000	1.000000	0.999962	0.000001	0.525545	1.751816
Pb 216.999 {455}	10/29/2013 15:02:00	10/23/2013 15:52:01	Curvilin	1/Conc	0.000000	0.000001	0.000000	1.000000	0.999972	0.000002	6.010049	20.033495
Pb 220.353 {453}	10/29/2013 15:02:00	10/23/2013 15:44:09	Linear	1/Conc	0.000015	0.000002	0.000000	1.000000	0.999285	0.000000	4.272511	14.241703
Sb 206.833 {463}	10/29/2013 15:02:00	10/23/2013 15:47:52	Linear	1/Conc	0.000003	0.000003	0.000000	1.000000	0.999922	0.000000	2.050625	6.835415
Sb 217.581 {455}	10/29/2013 15:02:00	10/23/2013 15:44:10	Linear	1/Conc	-0.000010	0.000003	0.000000	1.000000	0.999940	0.000000	2.638641	8.795468
Se 196.090 {172}	10/29/2013 15:02:00	10/23/2013 15:47:52	Curvilin	1/Conc	0.000008	0.000001	0.000000	1.000000	0.999810	0.000000	9.091661	30.305538
Se 196.090 {472}	10/29/2013 15:02:00	10/23/2013 15:47:52	Linear	None	0.000021	0.000001	0.000000	1.000000	0.999985	0.000037	3.217584	10.725279
Se 206.279 {463}	10/29/2013 15:02:00	10/23/2013 15:47:52	Linear	1/Conc	-0.000013	0.000000	0.000000	1.000000	0.999901	0.000001	21.944313	73.147710
Tl 276.787 {122}	10/29/2013 15:02:00	10/23/2013 15:47:52	Linear	None	0.000002	0.000000	0.000000	1.000000	0.999997	0.000003	100.515144	335.050479
Tl 190.856 {477}	10/29/2013 15:02:00	10/23/2013 15:44:10	Linear	1/Conc	-0.000002	0.000001	0.000000	1.000000	0.999870	0.000000	2.611042	8.703474

	Element, Wavelength and Order	Status	Reslope		QC Norm	
			Slope	Y-int	Slope factor	Offset
	Ag 328.068 {103}	OK.	1.000000	0.000000	1	0
	Al 309.271 {109}	OK.	1.000000	0.000000	1	0
	Al 396.152 { 85}	OK.	1.000000	0.000000	1	0
	Al 167.079 {502}	OK.	1.000000	0.000000	1	0
	As 193.759 {474}	OK.	1.000000	0.000000	1	0
	As 189.042 {479}	OK.	1.000000	0.000000	1	0
	Ba 455.403 { 74}	OK.	1.000000	0.000000	1	0
	Ba 493.409 { 68}	OK.	1.000000	0.000000	1	0
	Be 313.042 {108}	OK.	1.000000	0.000000	1	0
	Be 234.861 {144}	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	OK.	1.000000	0.000000	1	0
	Ca 393.366 { 86}	OK.	1.000000	0.000000	1	0
	Ca 396.847 { 85}	OK.	1.000000	0.000000	1	0
	Cd 226.502 {449}	OK.	1.000000	0.000000	1	0
	Cd 228.802 {447}	OK.	1.000000	0.000000	1	0
	Co 228.616 {447}	OK.	1.000000	0.000000	1	0
	Co 238.892 {141}	OK.	1.000000	0.000000	1	0
	Cr 267.716 {126}	OK.	1.000000	0.000000	1	0
	Cr 283.563 {119}	OK.	1.000000	0.000000	1	0
	Cu 224.700 {450}	OK.	1.000000	0.000000	1	0
	Cu 324.754 {104}	Warnin	1.000000	0.000000	1	0
	Cu 327.396 {103}	OK.	1.000000	0.000000	1	0
	Fe 234.349 {144}	OK.	1.000000	0.000000	1	0
	Fe 239.562 {141}	OK.	1.000000	0.000000	1	0
	Fe 259.940 {130}	OK.	1.000000	0.000000	1	0
	Mg 202.582 {466}	OK.	1.000000	0.000000	1	0
	Mg 279.079 {121}	OK.	1.000000	0.000000	1	0
	Mg 280.270 {120}	OK.	1.000000	0.000000	1	0
	Mn 257.610 {131}	OK.	1.000000	0.000000	1	0
	Mn 259.373 {130}	OK.	1.000000	0.000000	1	0
	Mo 203.844 {465}	OK.	1.000000	0.000000	1	0
	Mo 202.030 {467}	OK.	1.000000	0.000000	1	0
	Mo 204.598 {465}	OK.	1.000000	0.000000	1	0
	Ni 221.647 {452}	OK.	1.000000	0.000000	1	0
	Ni 231.604 {445}	OK.	1.000000	0.000000	1	0
	Pb 216.999 {455}	OK.	1.000000	0.000000	1	0
	Pb 220.353 {453}	OK.	1.000000	0.000000	1	0
	Sb 206.833 {463}	OK.	1.000000	0.000000	1	0
	Sb 217.581 {455}	OK.	1.000000	0.000000	1	0
	Se 196.090 {172}	OK.	1.000000	0.000000	1	0
	Se 196.090 {472}	OK.	1.000000	0.000000	1	0
	Se 206.279 {463}	OK.	1.000000	0.000000	1	0
	Tl 276.787 {122}	OK.	1.000000	0.000000	1	0
	Tl 190.856 {477}	OK.	1.000000	0.000000	1	0

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
V 290.882 {116}	10/29/2013 15:02:00	10/23/2013 15:47:52	Linear	1/Conc	-0.000028	0.000006	0.000000	1.000000	0.999992	0.000004	4.372132	14.573772
V 292.402 {115}	10/29/2013 15:02:00	10/23/2013 15:44:10	Linear	1/Conc	0.000090	0.000082	0.000000	1.000000	0.999934	0.000004	0.618000	2.060002
Zn 206.200 {463}	10/29/2013 15:02:00	10/23/2013 15:52:01	Full Fit	None	-0.000107	0.000031	-0.000000	0.970000	1.000000	0.000000	0.188931	0.629770
Zn 213.856 {458}	10/29/2013 15:02:00	10/23/2013 15:44:10	Linear	1/Conc	0.000032	0.000027	0.000000	1.000000	0.999955	0.000001	0.171774	0.572581
Y 360.073 { 94}*	10/29/2013 15:02:00	10/23/2013 15:09:12	Linear	None	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
Na 330.298 {102}	10/29/2013 15:02:00	10/23/2013 15:52:01	Linear	1/Conc	-0.000008	-0.000000	0.000000	1.000000	1.000000	0.000000	-1.000000	-1.000000
Si 251.611 {134}	10/29/2013 15:02:00	10/23/2013 15:44:10	Linear	None	0.000268	-0.000000	0.000000	1.000000	1.000000	0.000000	-1.000000	-1.000000
Ti 334.941 {101}	10/29/2013 15:02:00	10/23/2013 15:47:52	Linear	1/Conc	0.000105	0.000031	0.000000	1.000000	0.999317	0.000004	0.713771	2.379235
Ti 337.280 {100}	10/29/2013 15:02:00	10/23/2013 15:47:52	Linear	1/Conc	0.000058	0.000039	0.000000	1.000000	0.999488	0.000005	0.782604	2.608681
Sr 407.771 { 83}	10/29/2013 15:02:00	10/23/2013 15:47:52	Linear	1/Conc	-0.004868	0.000702	0.000000	1.000000	0.999955	0.000026	0.081542	0.271807
Sr 421.552 { 80}	10/29/2013 15:02:00	10/23/2013 15:47:52	Linear	1/Conc	-0.000124	0.000581	0.000000	1.000000	0.999998	0.000005	0.085871	0.286237
Sn 189.989 {477}	10/29/2013 15:02:00	10/23/2013 15:47:52	Linear	1/Conc	0.000007	0.000004	0.000000	1.000000	0.999795	0.000001	0.823522	2.745074
Sn 283.999 {119}	10/29/2013 15:02:00	10/23/2013 15:47:52	Linear	1/Conc	0.000015	0.000001	0.000000	1.000000	0.999952	0.000000	23.985915	79.953052
B 249.773 {135}	10/29/2013 15:02:00	10/23/2013 15:47:52	Linear	1/Conc	0.000028	0.000006	0.000000	1.000000	0.999891	0.000001	1.806382	6.021274
Li 670.784 { 50}	10/29/2013 15:02:00	10/23/2013 15:47:52	Linear	1/Conc	0.000119	0.000130	0.000000	1.000000	0.999968	0.000014	0.746482	2.488274

	Element, Wavelength and Order	Status	Reslope		QC Norm	
			Slope	Y-int	Slope factor	Offset
	V 290.882 {116}	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	OK.	1.000000	0.000000	1	0
	Zn 206.200 {463}	OK.	1.000000	0.000000	1	0
	Zn 213.856 {458}	OK.	1.000000	0.000000	1	0
	Y 360.073 { 94}*	Warnin	1.000000	0.000000	1	0
	Na 330.298 {102}	Warnin	1.000000	0.000000	1	0
	Si 251.611 {134}	Warnin	1.000000	0.000000	1	0
	Ti 334.941 {101}	OK.	1.000000	0.000000	1	0
	Ti 337.280 {100}	OK.	1.000000	0.000000	1	0
	Sr 407.771 { 83}	OK.	1.000000	0.000000	1	0
	Sr 421.552 { 80}	OK.	1.000000	0.000000	1	0
	Sn 189.989 {477}	OK.	1.000000	0.000000	1	0
	Sn 283.999 {119}	OK.	1.000000	0.000000	1	0
	B 249.773 {135}	OK.	1.000000	0.000000	1	0
	Li 670.784 { 50}	OK.	1.000000	0.000000	1	0

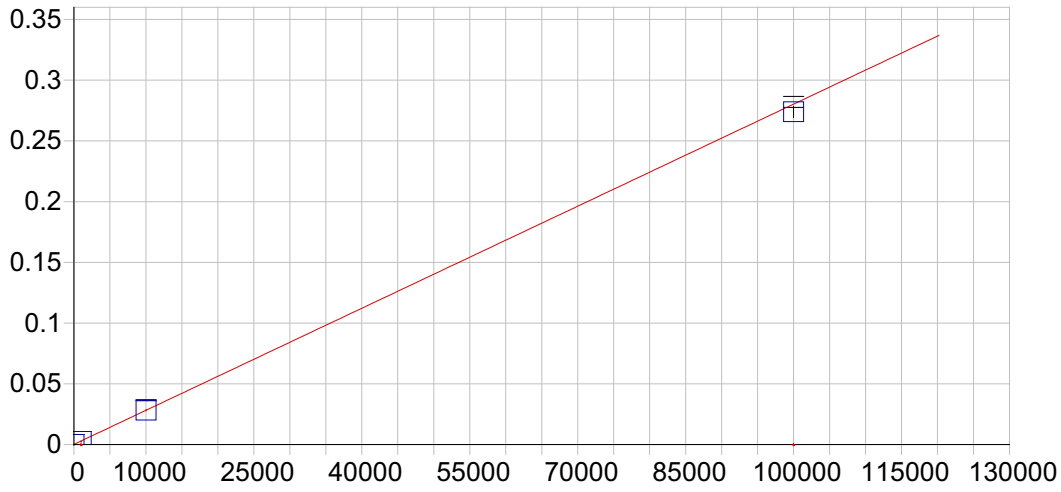


Ag 328.068 {103}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000134	Re-Slope:	1.000000
A1 (Gain):	0.000016	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999391	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	2.043993		
Predicted MQL:	6.813310		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00020	.000	.000	-.00013	.000	1
CalibStd=10	10.000	9.2266	-.773	-7.73	.00001	.000	1
CalibStd=1	1.0000	1.2700	.270	27.0	-.00011	.000	1
CalibStd=100	100.00	100.50	.503	.503	.00147	.000	1

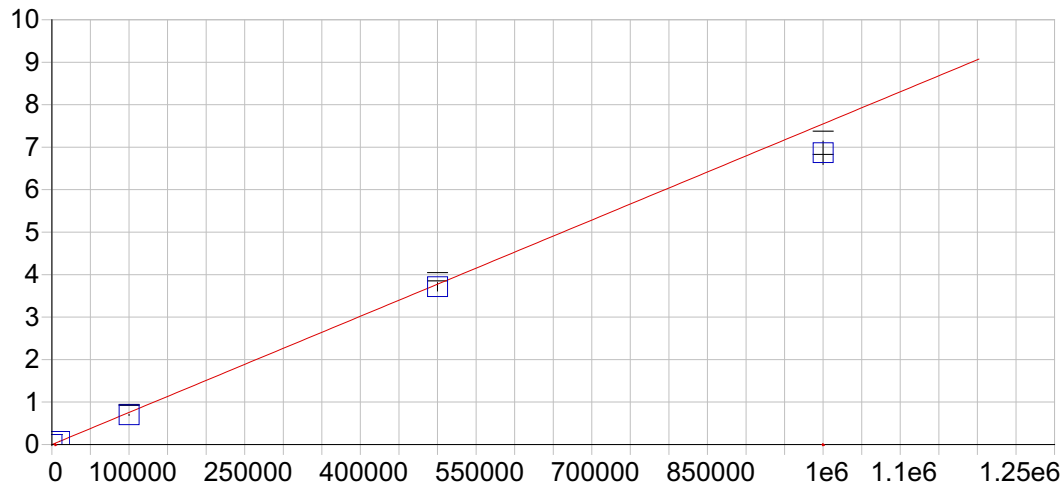


Al 309.271 {109}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.000147	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	13.809528		
Predicted MQL:	46.031761		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.02731	.027	.000	.00015	.000	1
CalibStd=100	10000.	10011.	10.9	.109	.02819	.000	1
CalibStd=100	1000.0	969.12	-30.9	-3.09	.00286	.000	1
CalibStd-100	100000.	97712.	-2290.	-2.29	.27388	.004	1

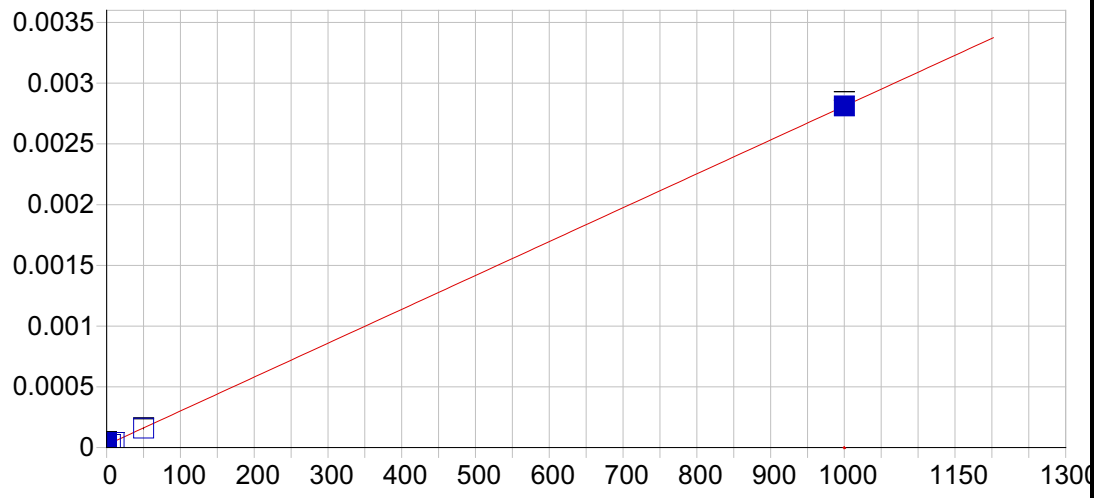


Al 396.152 { 85}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.000114	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999695	Status:	OK.
Std Error of Est:	0.001104		
Predicted MDL:	6.793780		
Predicted MQL:	22.645933		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.83863	.839	.000	.00012	.000	1
CalibStd-100	1000000.	909790.	-90200.	-9.02	6.8681	.273	1
CalibStd=500	500000.	491950.	-8050.	-1.61	3.7138	.096	1
CalibStd=100	10000.	9635.8	-364.	-3.64	.07285	.001	1
CalibStd-100	100000.	92302.	-7700.	-7.70	.69690	.011	1

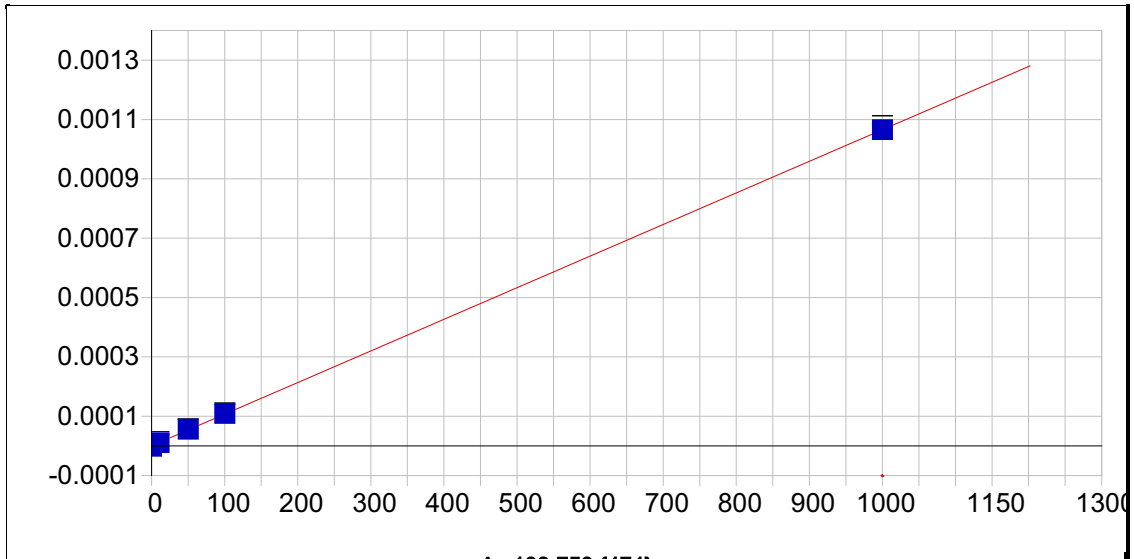


Al 167.079 {502}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000022	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.818782		
Predicted MQL:	2.729274		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	6.9230	6.92	.000	.00004	.000	1
CalibStd=100	1000.0	1000.1	.097	.010	.00281	.000	1
CalibStd=10	10.000	7.1900	-2.81	-28.1	.00004	.000	1
CalibStd=5	5.0000	1.8475	-3.15	-63.0	.00003	.000	1
CalibStd=50	50.000	48.943	-1.06	-2.11	.00016	.000	1

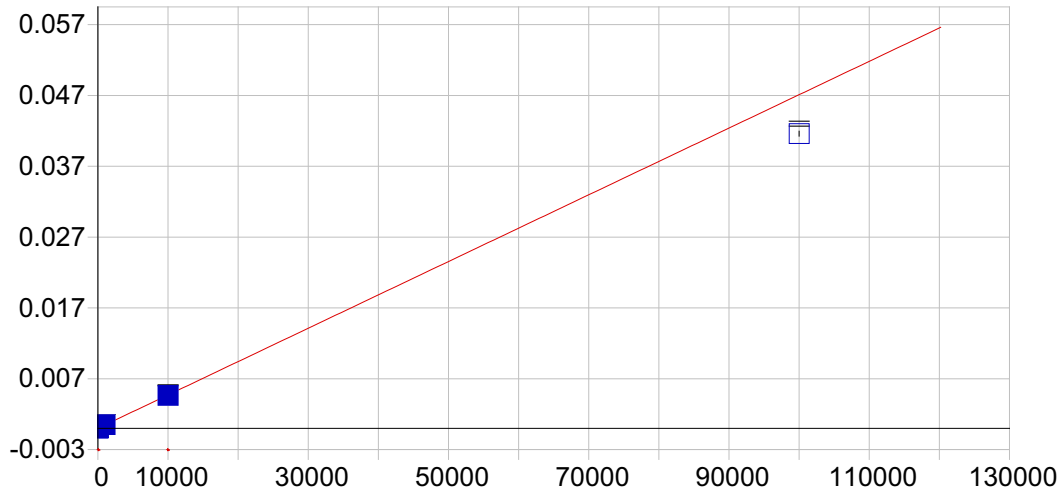


As 193.759 {474}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	4.163440		
Predicted MQL:	13.878135		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-2.3679	-2.37	.000	.00000	.000	1
CalibStd=100	1000.0	999.75	-.248	-.025	.00107	.000	1
CalibStd=50	50.000	51.987	1.99	3.97	.00006	.000	1
CalibStd=10	10.000	9.0473	-.953	-9.53	.00001	.000	1
CalibStd=100	100.00	101.58	1.58	1.58	.00011	.000	1

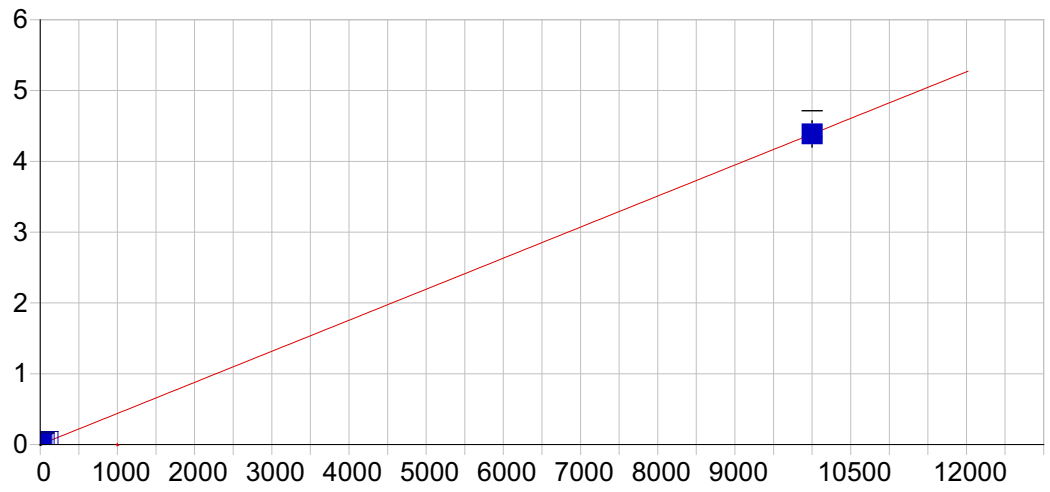


As 189.042 {479}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	6.749870		
Predicted MQL:	22.499566		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00799	-.008	.000	.00000	.000	1
CalibStd=100	1000.0	1033.6	33.6	3.36	.00048	.000	1
CalibStd=100	10000.	9839.4	-161.	-1.61	.00463	.000	1
CalibStd=100	100.00	104.93	4.93	4.93	.00005	.000	1
CalibStd-100	100000.	88318.	-11700.	-11.7	.04160	.000	1

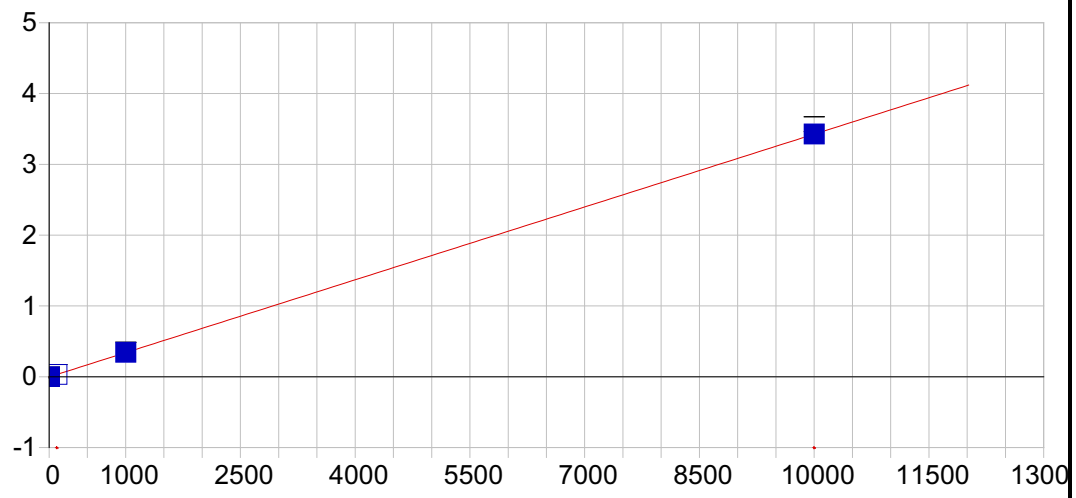


Ba 455.403 { 74}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000757	Re-Slope:	1.000000
A1 (Gain):	0.000439	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000799		
Predicted MDL:	0.149857		
Predicted MQL:	0.499523		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.0517	-1.05	.000	.00030	.000	1
CalibStd=50	50.000	48.597	-1.40	-2.81	.02207	.001	1
CalibStd=10	10.000	9.3877	-.612	-6.12	.00487	.000	1
CalibStd=20	20.000	20.442	.442	2.21	.00972	.000	1
CalibStd=100	100.00	103.50	3.50	3.50	.04616	.000	1
CalibStd=5	5.0000	4.1557	-.844	-16.9	.00258	.000	1
CalibStd=100	10000.	10000.0	-.028	.000	4.3872	.186	1

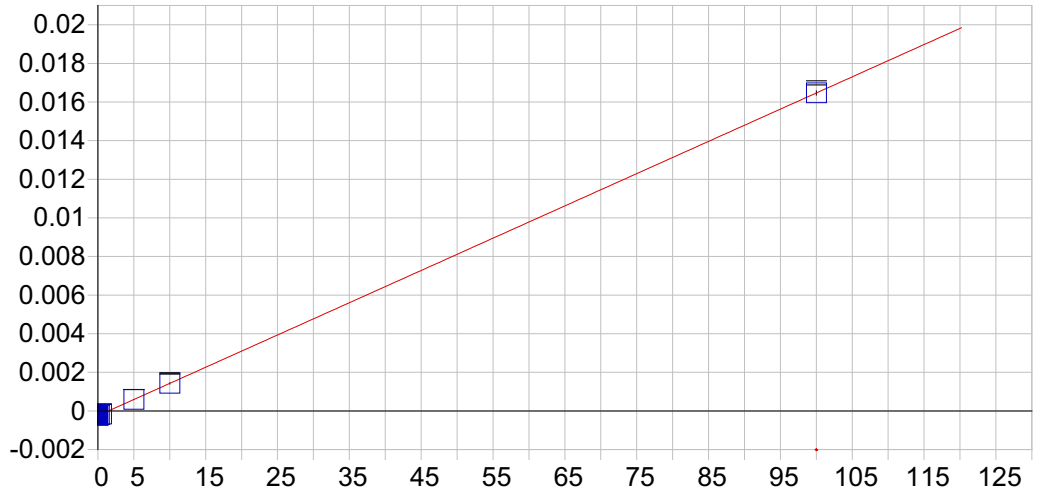


Ba 493.409 { 68}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.002305	Re-Slope:	1.000000
A1 (Gain):	0.000343	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.002159		
Predicted MDL:	0.430783		
Predicted MQL:	1.435944		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-4.8349	-4.83	.000	-.00396	.000	1
CalibStd=100	1000.0	1007.2	7.25	.725	.34306	.002	1
CalibStd=100	10000.	9999.3	-.708	-.007	3.4263	.105	1
CalibStd=100	100.00	98.296	-1.70	-1.70	.03140	.000	1

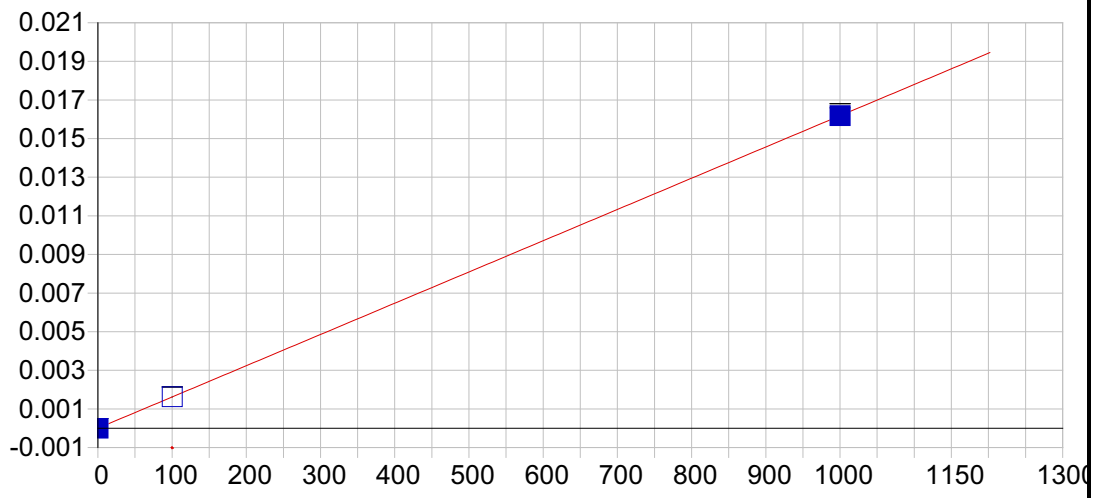


Be 313.042 {108}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000246	Re-Slope:	1.000000
A1 (Gain):	0.000167	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.118119		
Predicted MQL:	0.393730		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.04074	.041	.000	-.00024	.000	1
CalibStd=10	10.000	9.9920	-.008	-.080	.00142	.000	1
CalibStd=100	100.00	100.00	.001	.001	.01647	.000	1
CalibStd=0.5	.50000	.47781	-.022	-4.44	-.00017	.000	1
CalibStd=5	5.0000	4.9894	-.011	-.213	.00059	.000	1
CalibStd=0.2	.25000	.24868	-.001	-.528	-.00020	.000	1

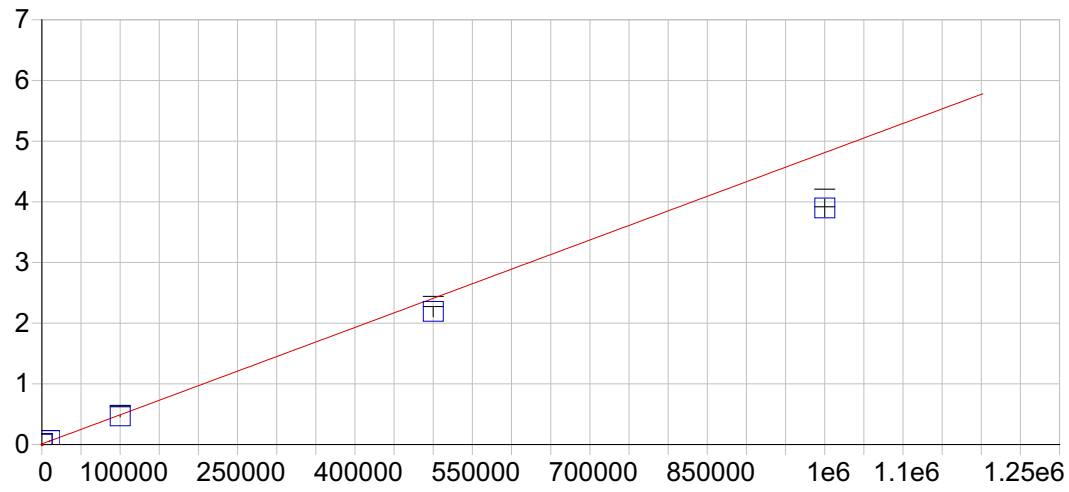


Be 234.861 {144}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000016	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.535559		
Predicted MQL:	1.785196		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00025	.000	.000	.00000	.000	1
CalibStd=100	1000.0	999.72	-.277	-.028	.01618	.000	1
CalibStd=100	100.00	100.28	.277	.277	.00162	.000	1

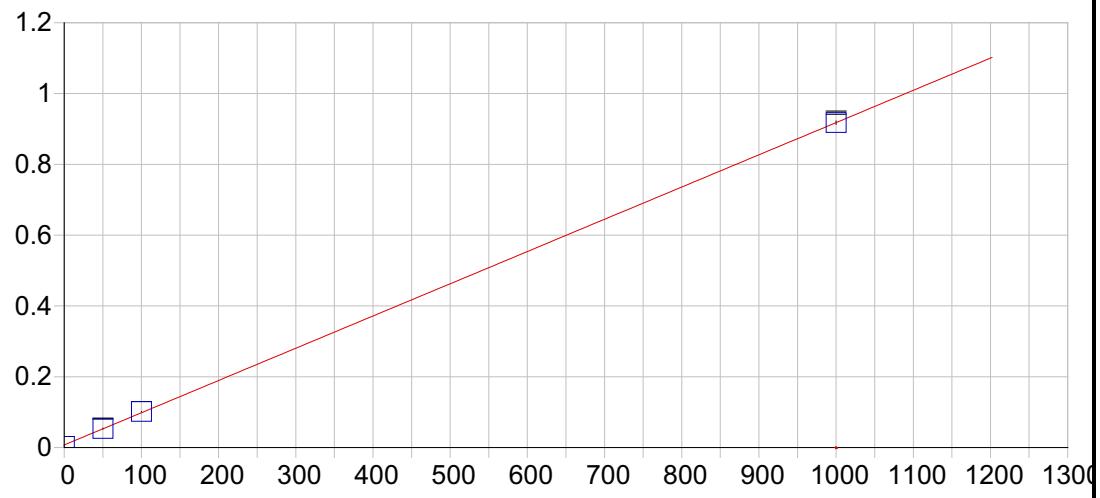


Ca 317.933 {106}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.009858	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999913	Status:	OK.
Std Error of Est:	0.000097		
Predicted MDL:	3.639052		
Predicted MQL:	12.130174		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.21823	-.218	.000	.00986	.000	1
CalibStd=100	10000.	11059.	1060.	10.6	.06295	.001	1
CalibStd=500	500000.	454710.	-45300.	-9.06	2.1928	.083	1
CalibStd-100	1000000.	809780.	-190000.	-19.0	3.8974	.146	1
CalibStd=100	1000.0	1131.7	132.	13.2	.01529	.000	1
CalibStd-100	100000.	95627.	-4370.	-4.37	.46894	.011	1

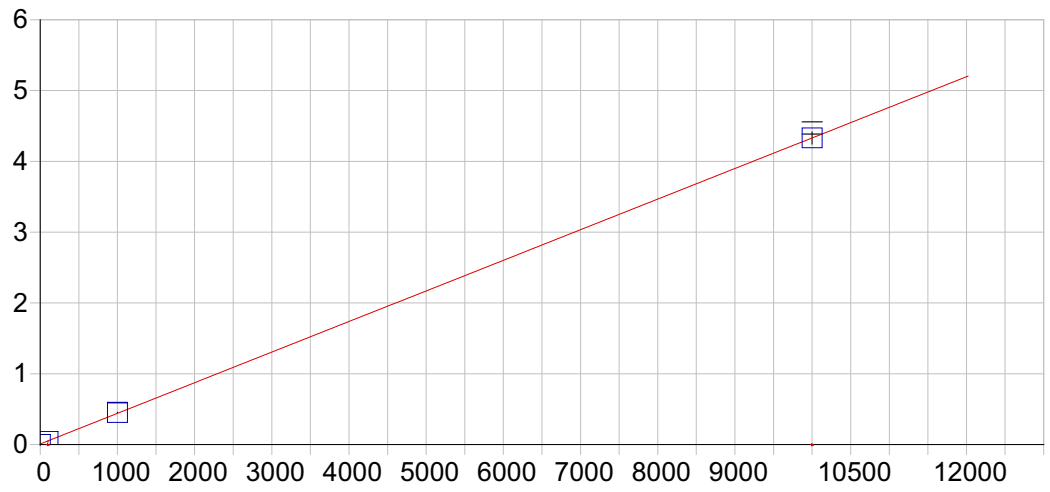


Ca 393.366 { 86}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.007302	Re-Slope:	1.000000
A1 (Gain):	0.000911	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.003442		
Predicted MDL:	0.040660		
Predicted MQL:	0.135534		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.9603	-3.96	.000	.00370	.000	1
CalibStd=50	50.000	50.897	.897	1.79	.05366	.001	1
CalibStd=100	1000.0	999.61	-.390	-.039	.91767	.004	1
CalibStd=100	100.00	103.45	3.45	3.45	.10152	.000	1

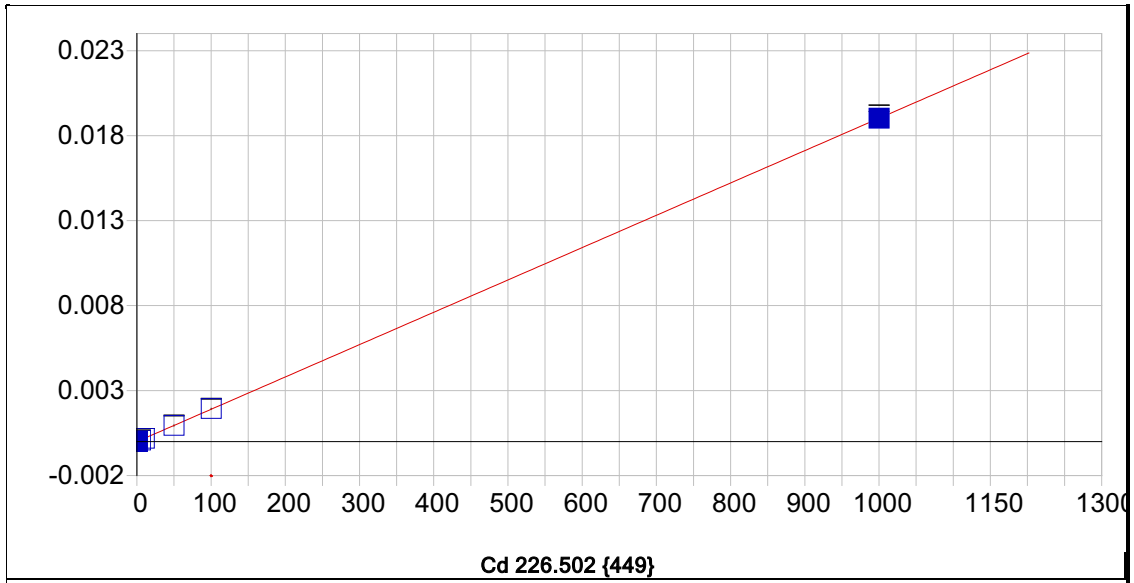


Ca 396.847 { 85}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.008874	Re-Slope:	1.000000
A1 (Gain):	0.000432	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.008770		
Predicted MDL:	0.070906		
Predicted MQL:	0.236353		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-16.405	-16.4	.000	.00178	.000	1
CalibStd=100	10000.	9997.7	-2.26	-.023	4.3302	.086	1
CalibStd=100	100.00	95.640	-4.36	-4.36	.05021	.000	1
CalibStd=100	1000.0	1023.0	23.0	2.30	.45105	.002	1

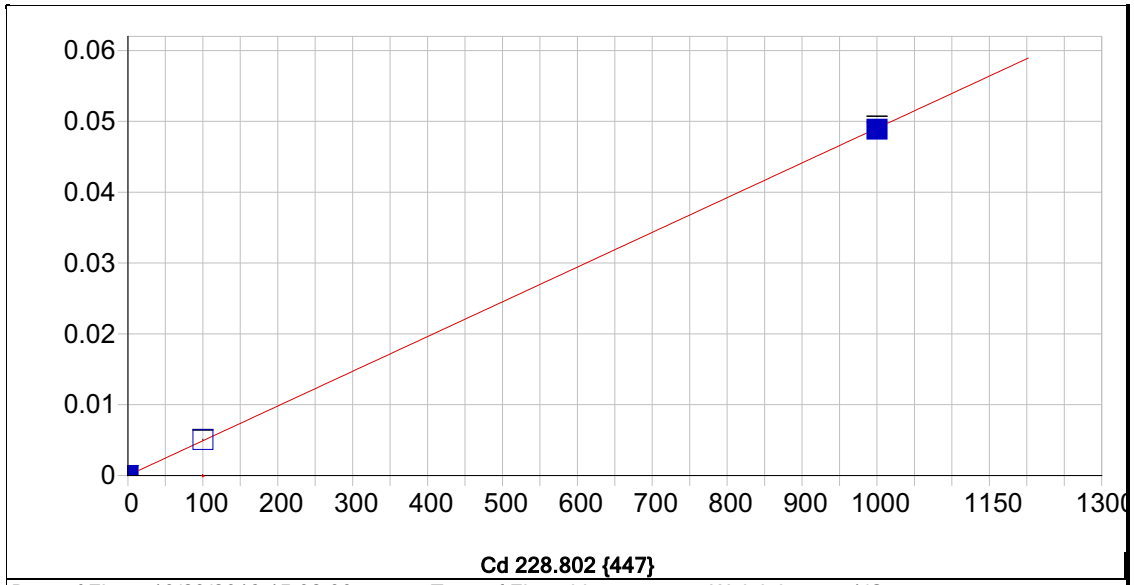


Cd 226.502 {449}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000019	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000015		
Predicted MDL:	0.396871		
Predicted MQL:	1.322904		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.53634	-.536	.000	-.00001	.000	1
CalibStd=50	50.000	50.006	.006	.011	.00095	.000	1
CalibStd=1	1.0000	.61322	-.387	-38.7	.00001	.000	1
CalibStd=0.5	.50000	.21303	-.287	-57.4	.00000	.000	1
CalibStd=5	5.0000	4.7192	-.281	-5.62	.00009	.000	1
CalibStd=100	100.00	101.82	1.82	1.82	.00193	.000	1
CalibStd=10	10.000	9.8435	-.157	-1.57	.00018	.000	1
CalibStd=100	1000.0	999.82	-.179	-.018	.01902	.000	1

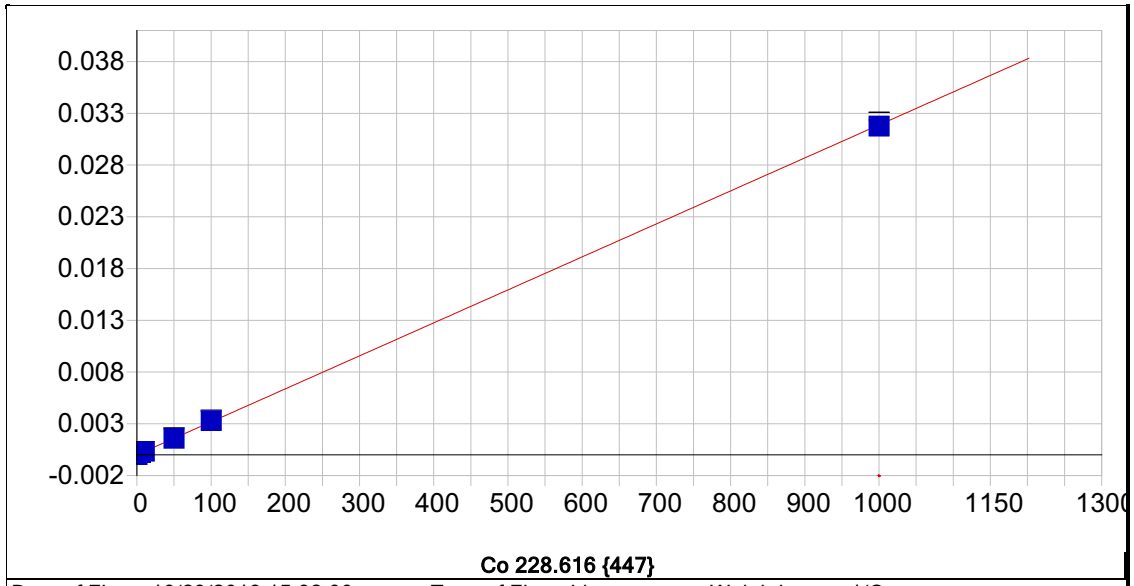


Cd 228.802 {447}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000010	Re-Slope:	1.000000
A1 (Gain):	0.000049	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999956	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.198887		
Predicted MQL:	0.662958		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00266	-.003	.000	.00001	.000	1
CalibStd=100	1000.0	997.05	-2.95	-.295	.04889	.000	1
CalibStd=100	100.00	102.95	2.95	2.95	.00506	.000	1

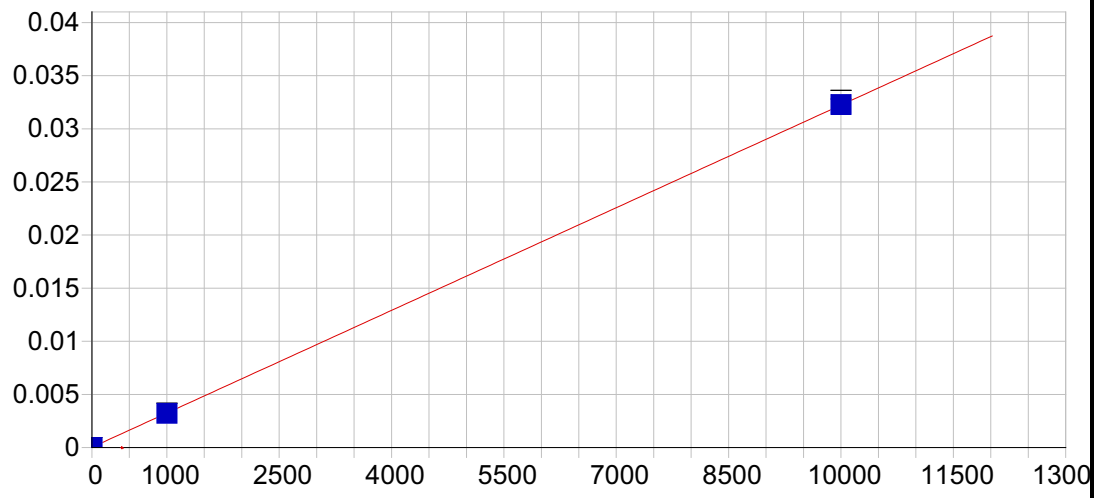


Co 228.616 {447}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000032	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999918	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.249971		
Predicted MQL:	0.833238		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00081	-.001	.000	.00000	.000	1
CalibStd=50	50.000	49.952	-.048	-.096	.00159	.000	1
CalibStd=10	10.000	10.738	.738	7.38	.00034	.000	1
CalibStd=5	5.0000	5.3040	.304	6.08	.00017	.000	1
CalibStd=100	100.00	103.17	3.17	3.17	.00329	.000	1
CalibStd=100	1000.0	995.84	-4.16	-.416	.03177	.000	1

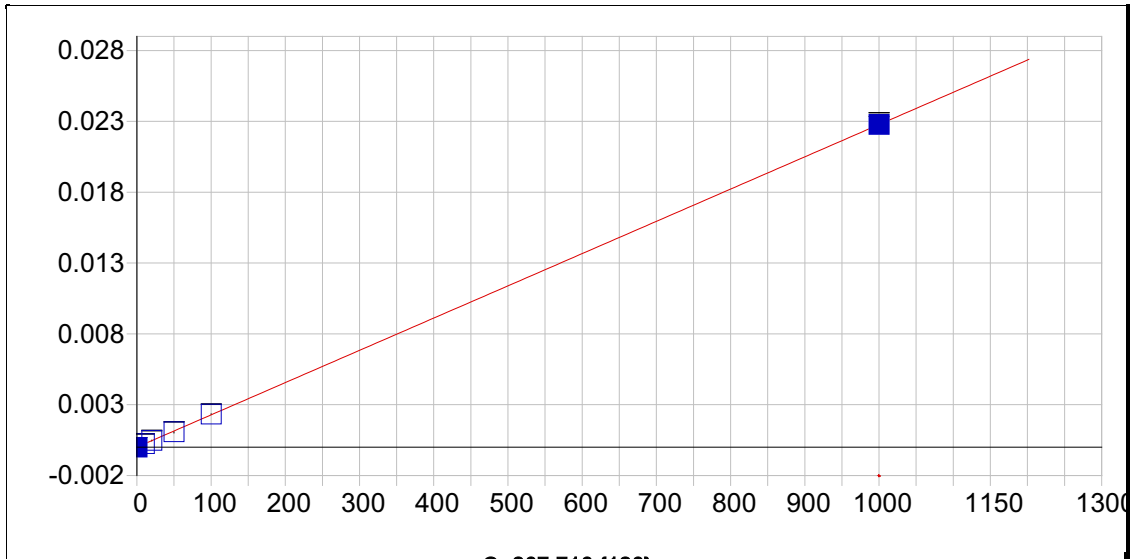


Co 238.892 {141}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000026	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	3.831861		
Predicted MQL:	12.772871		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00877	.009	.000	.00003	.000	1
CalibStd=100	1000.0	990.26	-9.74	-.974	.00322	.000	1
CalibStd=100	10000.	10010.	9.74	.097	.03227	.000	1

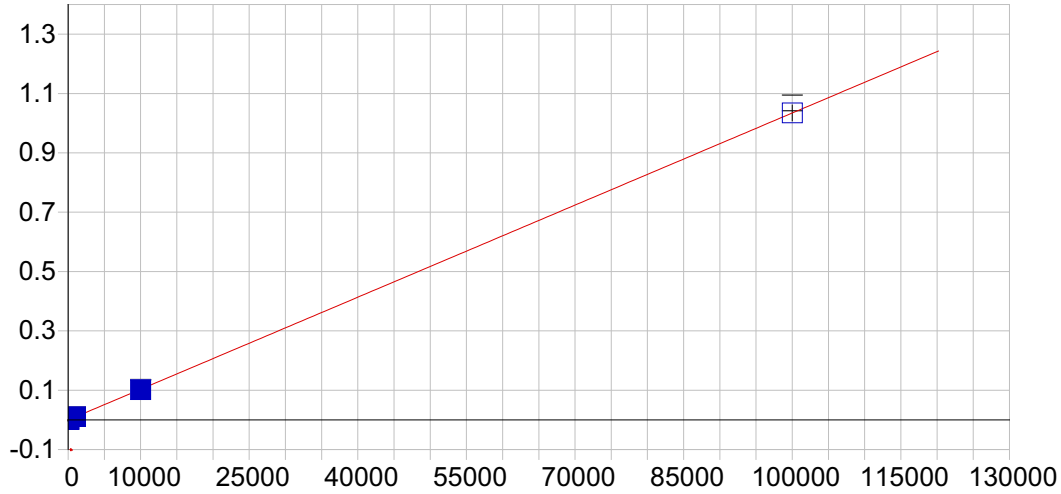


Cr 267.716 {126}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000023	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	1.378876		
Predicted MQL:	4.596252		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.31099	-.311	.000	.00000	.000	1
CalibStd=10	10.000	10.320	.320	3.20	.00024	.000	1
CalibStd=50	50.000	47.299	-2.70	-5.40	.00108	.000	1
CalibStd=100	1000.0	999.89	-.108	-.011	.02277	.000	1
CalibStd=20	20.000	20.503	.503	2.52	.00047	.000	1
CalibStd=100	100.00	102.30	2.30	2.30	.00234	.000	1

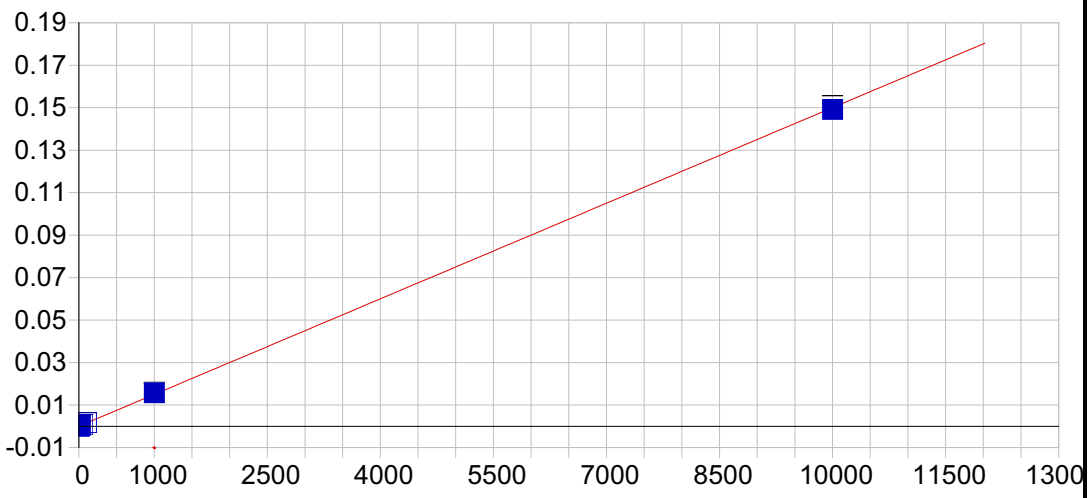


Cr 283.563 {119}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	-0.000397	Re-Slope:	1.000000
A1 (Gain):	0.000010	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000897		
Predicted MDL:	1.773840		
Predicted MQL:	5.912800		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	41.416	41.4	.000	.00003	.000	1
CalibStd=50	50.000	88.354	38.4	76.7	.00052	.000	1
CalibStd=100	100.00	139.04	39.0	39.0	.00104	.000	1
CalibStd=100	1000.0	1022.5	22.5	2.25	.01019	.000	1
CalibStd=100	10000.	9843.2	-157.	-1.57	.10155	.001	1
CalibStd-100	100000.	100020.	15.4	.015	1.0345	.026	1

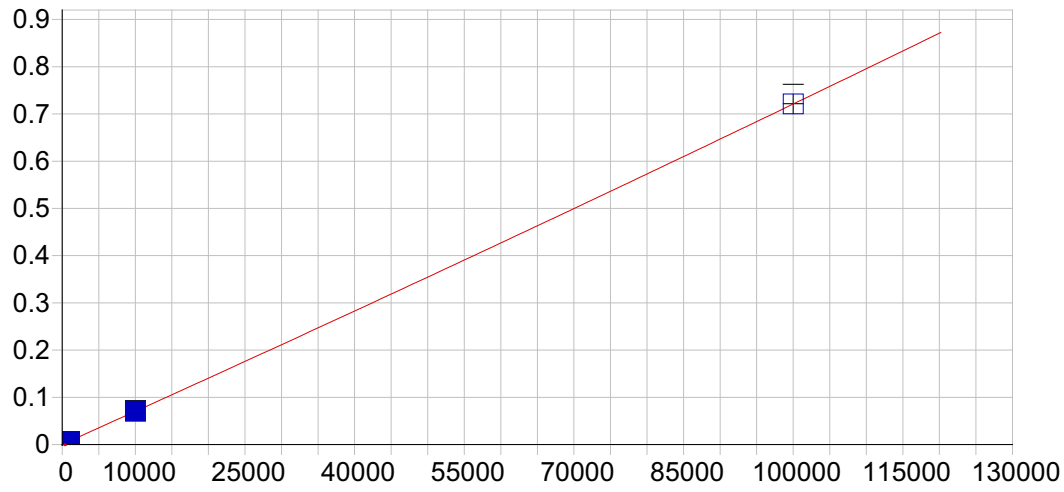


Cu 224.700 {450}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000015	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999822	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.511712		
Predicted MQL:	1.705706		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00222	-.002	.000	.00000	.000	1
CalibStd=100	1000.0	1047.4	47.4	4.74	.01572	.000	1
CalibStd=50	50.000	52.611	2.61	5.22	.00079	.000	1
CalibStd=100	100.00	108.74	8.74	8.74	.00163	.000	1
CalibStd=10	10.000	10.816	.816	8.16	.00016	.000	1
CalibStd=100	10000.	9937.5	-62.5	-.625	.14914	.002	1
CalibStd=5	5.0000	5.2351	.235	4.70	.00008	.000	1
CalibStd=20	20.000	22.681	2.68	13.4	.00034	.000	1

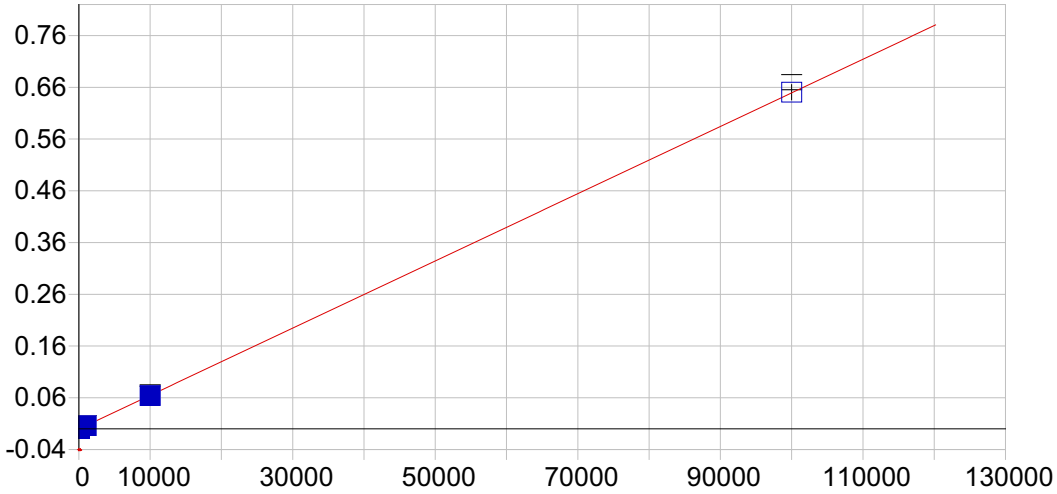


Cu 324.754 {104}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.000479	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	Warning Positive Curvature
Std Error of Est:	0.000001		
Predicted MDL:	4.179276		
Predicted MQL:	13.930919		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00163	.002	.000	.00048	.000	1
CalibStd=100	1000.0	996.03	-3.97	-.397	.00741	.000	1
CalibStd=100	100.00	98.706	-1.29	-1.29	.00117	.000	1
CalibStd=100	10000.	10006.	5.76	.058	.07033	.001	1
CalibStd-100	100000.	99999.	-.503	-.001	.72098	.021	1

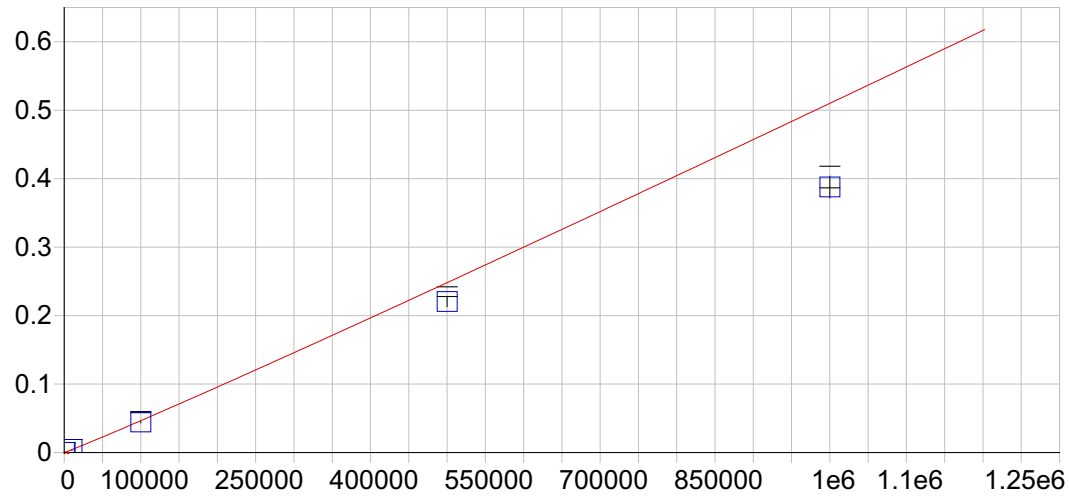


Cu 327.396 {103}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000206	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999983	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	5.367347		
Predicted MQL:	17.891156		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00262	.003	.000	-.00021	.000	1
CalibStd=20	20.000	19.547	-.453	-2.27	-.00008	.000	1
CalibStd=50	50.000	47.555	-2.44	-4.89	.00010	.000	1
CalibStd=100	100.00	99.564	-.436	-.436	.00044	.000	1
CalibStd=100	1000.0	955.49	-44.5	-4.45	.00600	.000	1
CalibStd=100	10000.	9878.6	-121.	-1.21	.06395	.001	1
CalibStd-100	100000.	100170.	169.	.169	.65040	.015	1

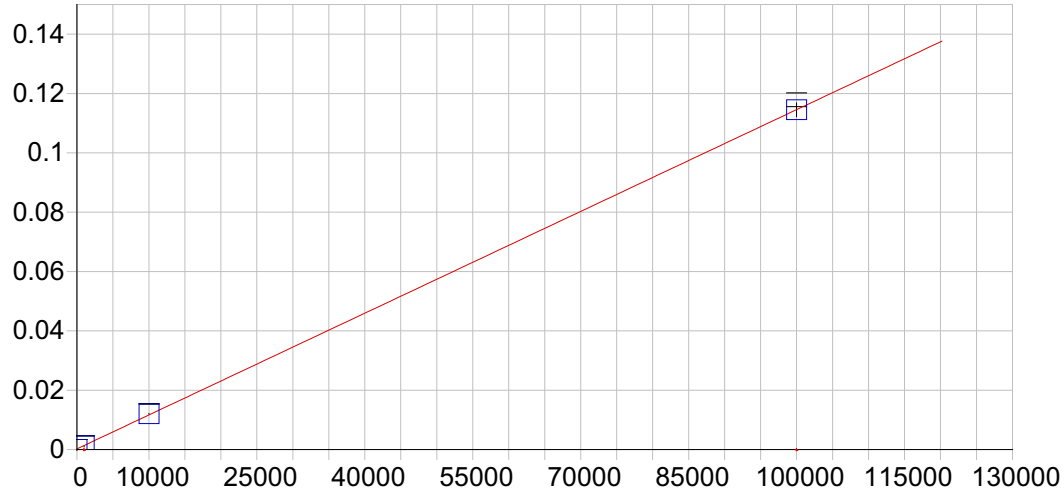


Fe 234.349 {144}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.040000		
Correlation:	0.999931	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	19.440680		
Predicted MQL:	64.802268		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00001	.000	1
CalibStd=100	10000.	10867.	867.	8.67	.00464	.000	1
CalibStd=500	500000.	446070.	-53900.	-10.8	.22029	.007	1
CalibStd-100	1000000.	768030.	-232000.	-23.2	.38761	.016	1
CalibStd=100	1000.0	1198.3	198.	19.8	.00048	.000	1
CalibStd-100	100000.	95580.	-4420.	-4.42	.04439	.001	1

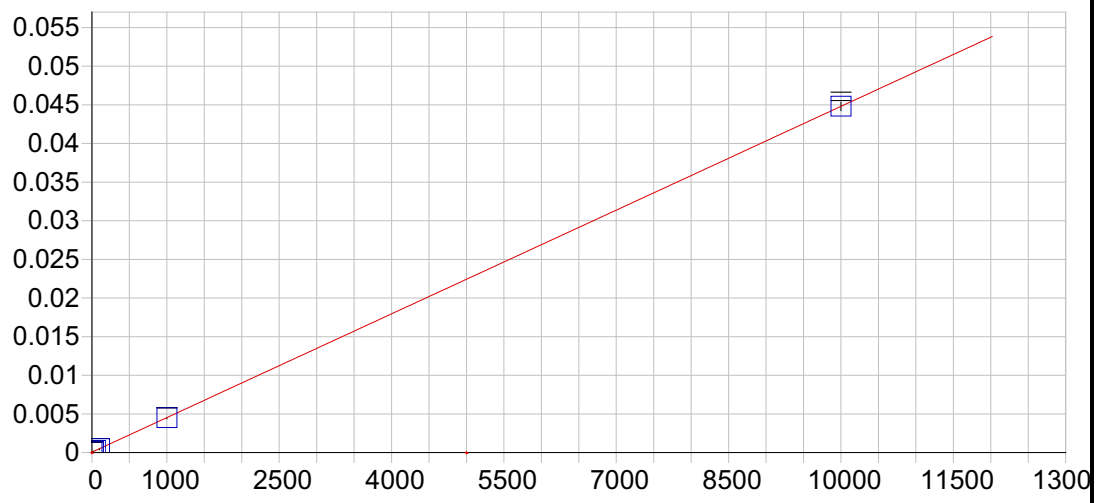


Fe 239.562 {141}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000220	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000324		
Predicted MDL:	5.777425		
Predicted MQL:	19.258085		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-176.71	-177.	.000	.00002	.000	1
CalibStd=100	1000.0	874.07	-126.	-12.6	.00122	.000	1
CalibStd=100	10000.	10335.	335.	3.35	.01204	.000	1
CalibStd-100	100000.	99968.	-32.2	-.032	.11452	.002	1

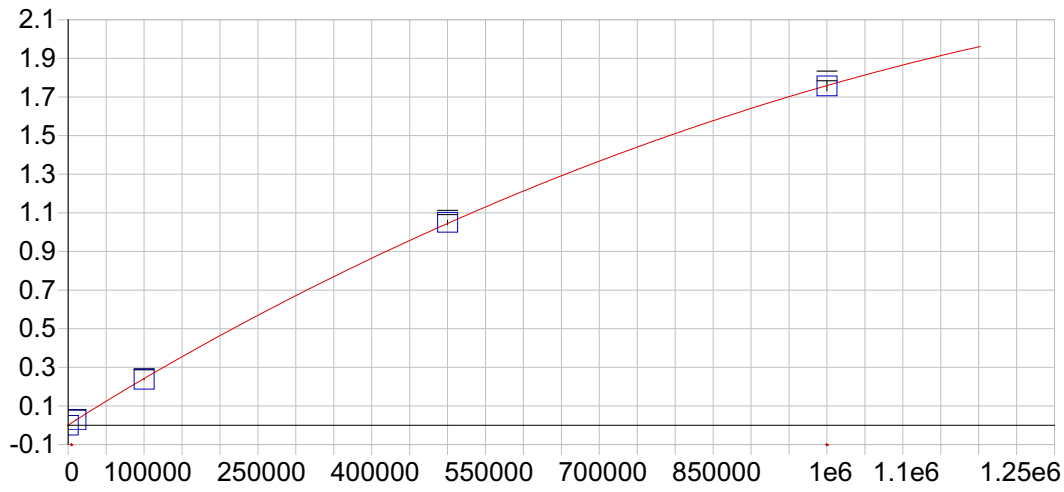


Fe 259.940 {130}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000049	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	2.930142		
Predicted MQL:	9.767141		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	1.4267	1.43	.000	.00006	.000	1
CalibStd=100	1000.0	993.39	-6.61	-.661	.00450	.000	1
CalibStd=50	50.000	46.758	-3.24	-6.48	.00026	.000	1
CalibStd=100	100.00	99.611	-.389	-.389	.00050	.000	1
CalibStd=20	20.000	28.153	8.15	40.8	.00018	.000	1
CalibStd=100	10000.	10001.	.665	.007	.04481	.001	1

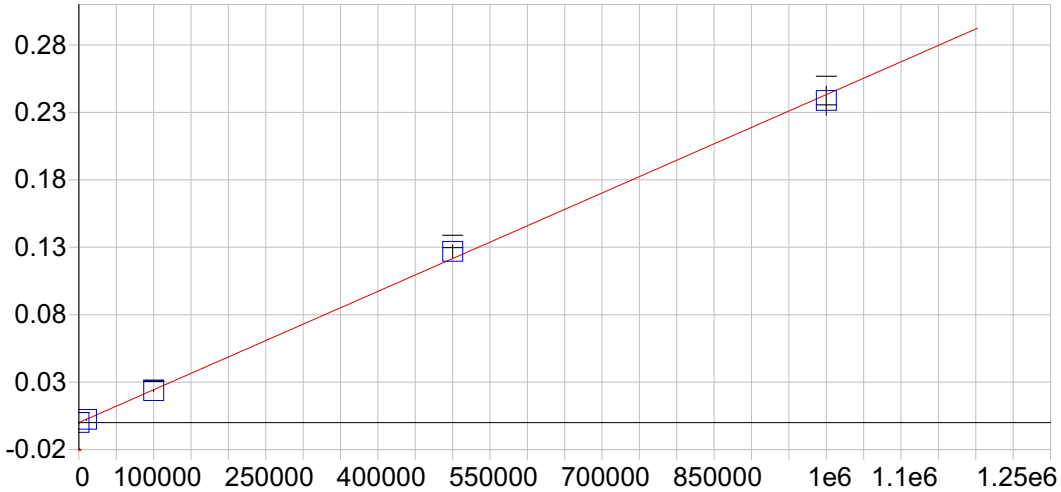


Mg 202.582 {466}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	-0.000030	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.980000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000137		
Predicted MDL:	1.805468		
Predicted MQL:	6.018227		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00003	.000	1
CalibStd=500	500000.	502830.	2830.	.567	1.0500	.011	1
CalibStd=100	10000.	10492.	492.	4.92	.02716	.000	1
CalibStd-100	1000000.	998130.	-1870.	-.187	1.7569	.025	1
CalibStd-100	100000.	98235.	-1760.	-1.76	.23761	.002	1

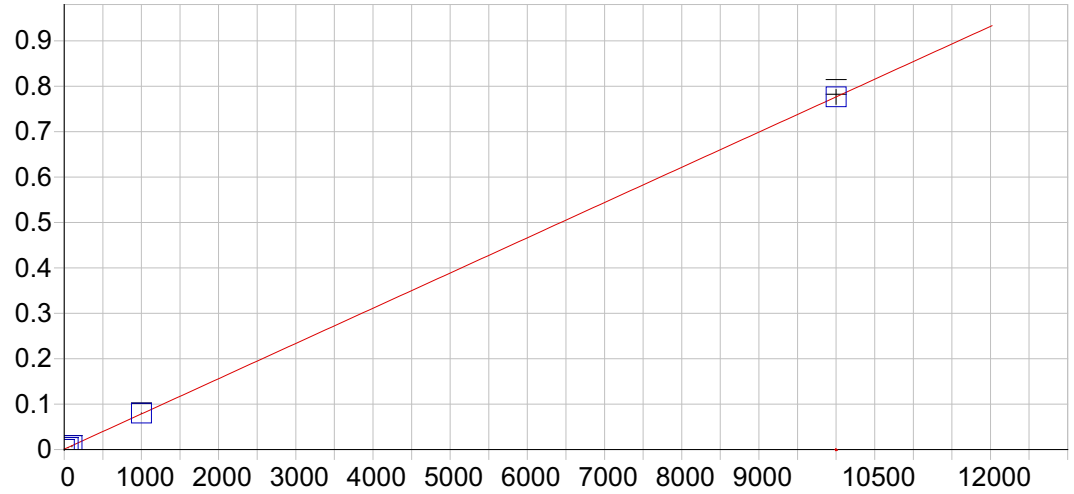


Mg 279.079 {121}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999572	Status:	OK.
Std Error of Est:	0.000037		
Predicted MDL:	33.189472		
Predicted MQL:	110.631574		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.38133	.381	.000	.00000	.000	1
CalibStd=500	500000.	521660.	21700.	4.33	.12687	.005	1
CalibStd=100	10000.	9684.1	-316.	-3.16	.00235	.000	1
CalibStd-100	1000000.	981820.	-18200.	-1.82	.23879	.011	1
CalibStd-100	100000.	96830.	-3170.	-3.17	.02355	.001	1

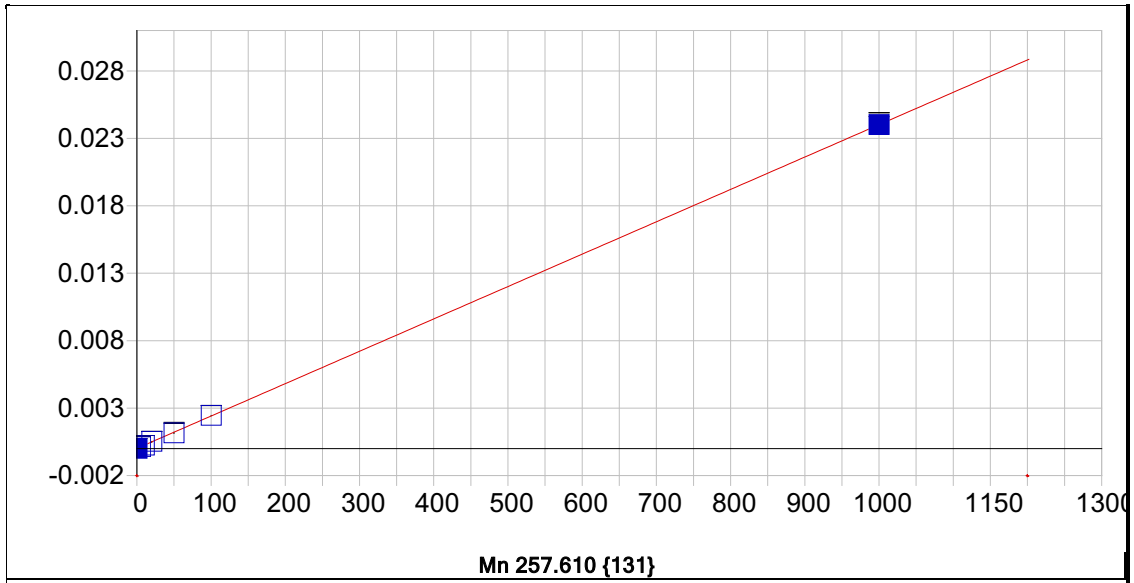


Mg 280.270 {120}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000886	Re-Slope:	1.000000
A1 (Gain):	0.000078	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.001038		
Predicted MDL:	0.120922		
Predicted MQL:	0.403073		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-7.0813	-7.08	.000	.00034	.000	1
CalibStd=100	1000.0	1020.2	20.2	2.02	.08005	.000	1
CalibStd=100	10000.	9998.1	-1.95	-.019	.77668	.016	1
CalibStd=100	100.00	96.926	-3.07	-3.07	.00841	.000	1
CalibStd=50	50.000	41.906	-8.09	-16.2	.00414	.000	1

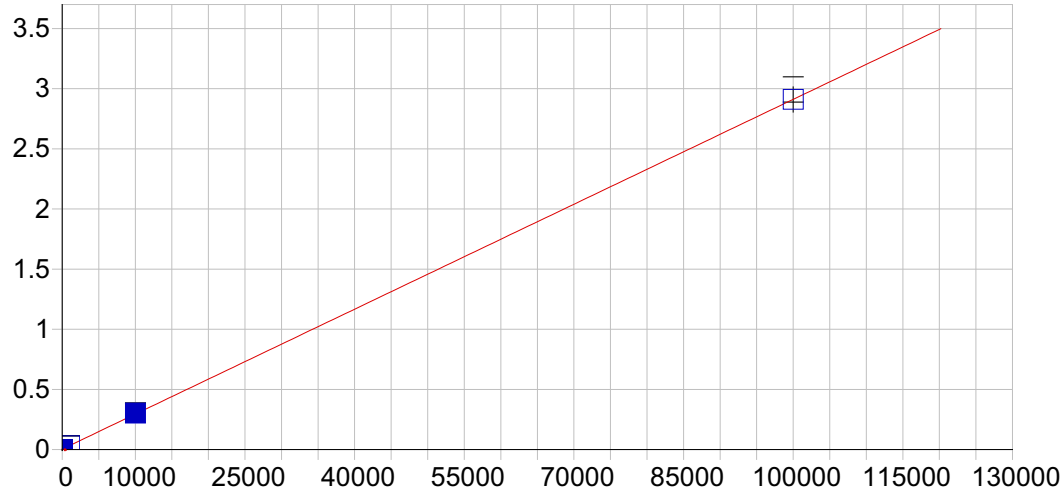


Mn 257.610 {131}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000013	Re-Slope:	1.000000
A1 (Gain):	0.000024	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.397698		
Predicted MQL:	1.325662		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.13361	-.134	.000	.00001	.000	1
CalibStd=10	10.000	9.7462	-.254	-2.54	.00025	.000	1
CalibStd=50	50.000	47.799	-2.20	-4.40	.00116	.000	1
CalibStd=20	20.000	21.409	1.41	7.04	.00053	.000	1
CalibStd=100	100.00	101.54	1.54	1.54	.00245	.000	1
CalibStd=5	5.0000	4.7085	-.292	-5.83	.00013	.000	1
CalibStd=100	1000.0	999.93	-.068	-.007	.02402	.000	1

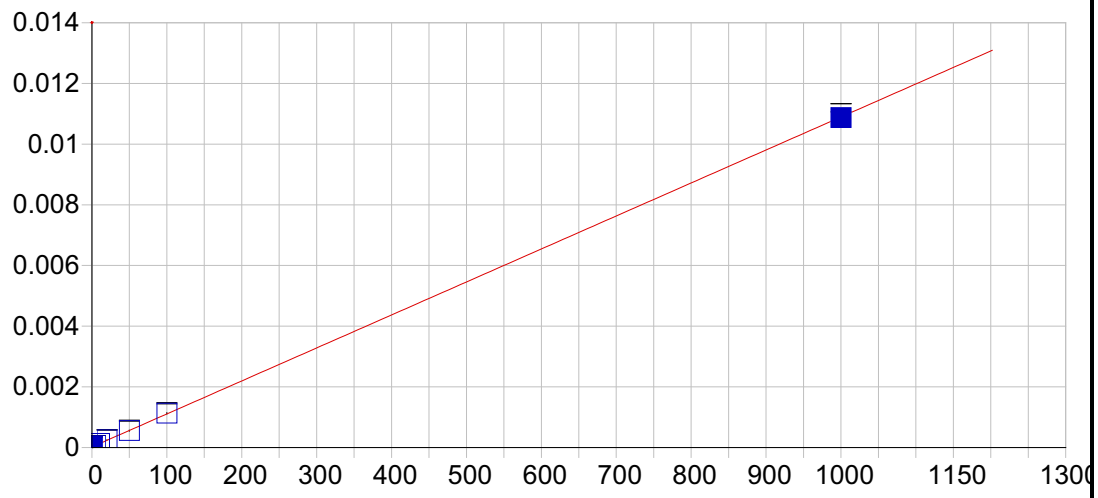


Mn 259.373 {130}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.003878	Re-Slope:	1.000000
A1 (Gain):	0.000029	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.006228		
Predicted MDL:	0.539339		
Predicted MQL:	1.797798		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-133.12	-133.	.000	.00001	.000	1
CalibStd=100	10000.	10253.	253.	2.53	.30244	.004	1
CalibStd-100	100000.	99976.	-24.4	-.024	2.9108	.105	1
CalibStd=100	1000.0	904.09	-95.9	-9.59	.03017	.000	1

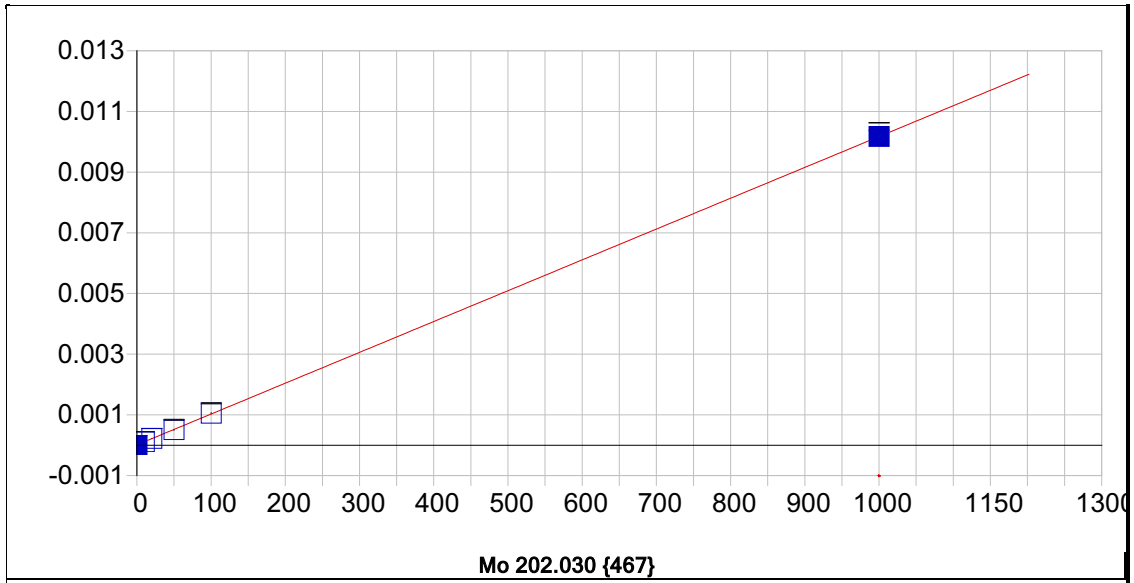


Mo 203.844 {465}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000020	Re-Slope:	1.000000
A1 (Gain):	0.000011	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999919	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.568130		
Predicted MQL:	1.893766		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00019	.000	.000	.00002	.000	1
CalibStd=50	50.000	49.371	-.629	-1.26	.00056	.000	1
CalibStd=1	1.0000	.76662	-.233	-23.3	.00003	.000	1
CalibStd=20	20.000	21.178	1.18	5.89	.00025	.000	1
CalibStd=10	10.000	10.149	.149	1.49	.00013	.000	1
CalibStd=100	100.00	102.15	2.15	2.15	.00113	.000	1
CalibStd=5	5.0000	4.8198	-.180	-3.60	.00007	.000	1
CalibStd=100	1000.0	997.56	-2.44	-.244	.01087	.000	1

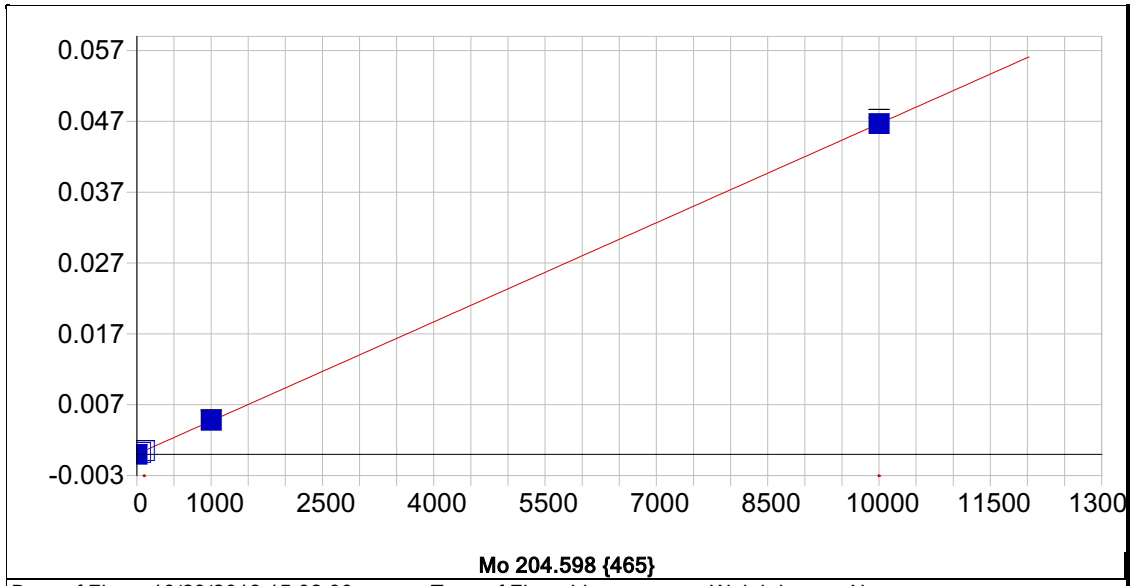


Mo 202.030 {467}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000010	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.404407		
Predicted MQL:	1.348023		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.0367	-1.04	.000	.00000	.000	1
CalibStd=50	50.000	48.760	-1.24	-2.48	.00051	.000	1
CalibStd=20	20.000	20.585	.585	2.93	.00022	.000	1
CalibStd=10	10.000	9.6779	-.322	-3.22	.00011	.000	1
CalibStd=100	100.00	102.18	2.18	2.18	.00105	.000	1
CalibStd=100	1000.0	999.84	-.164	-.016	.01017	.000	1

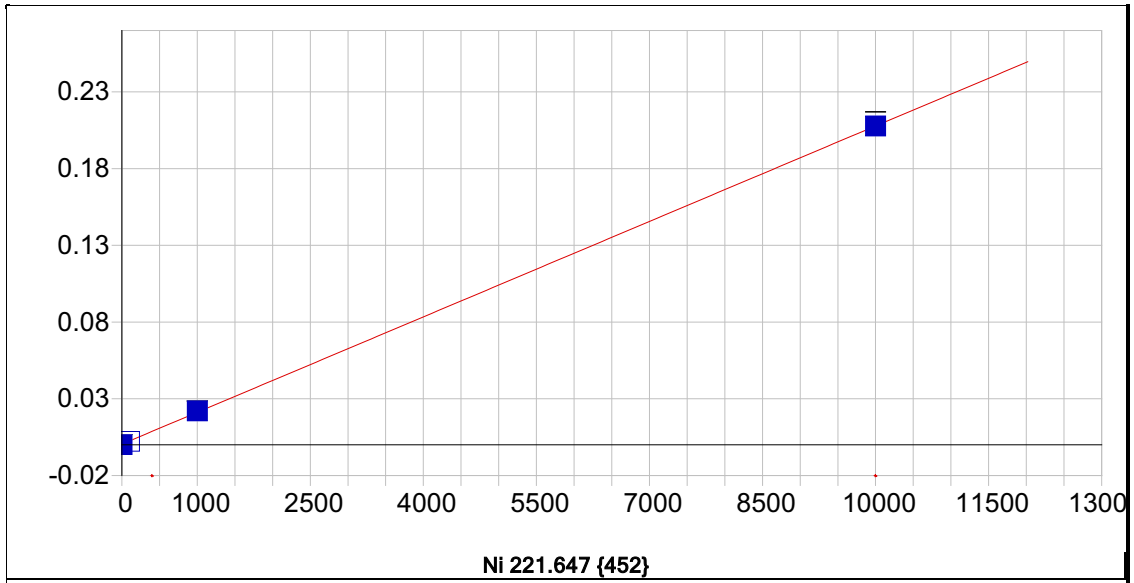


Mo 204.598 {465}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000038	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000058		
Predicted MDL:	0.970917		
Predicted MQL:	3.236390		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-8.4598	-8.46	.000	.00000	.000	1
CalibStd=100	1000.0	1018.6	18.6	1.86	.00479	.000	1
CalibStd=100	10000.	9998.2	-1.81	-.018	.04667	.001	1
CalibStd=50	50.000	43.771	-6.23	-12.5	.00024	.000	1
CalibStd=100	100.00	97.853	-2.15	-2.15	.00049	.000	1

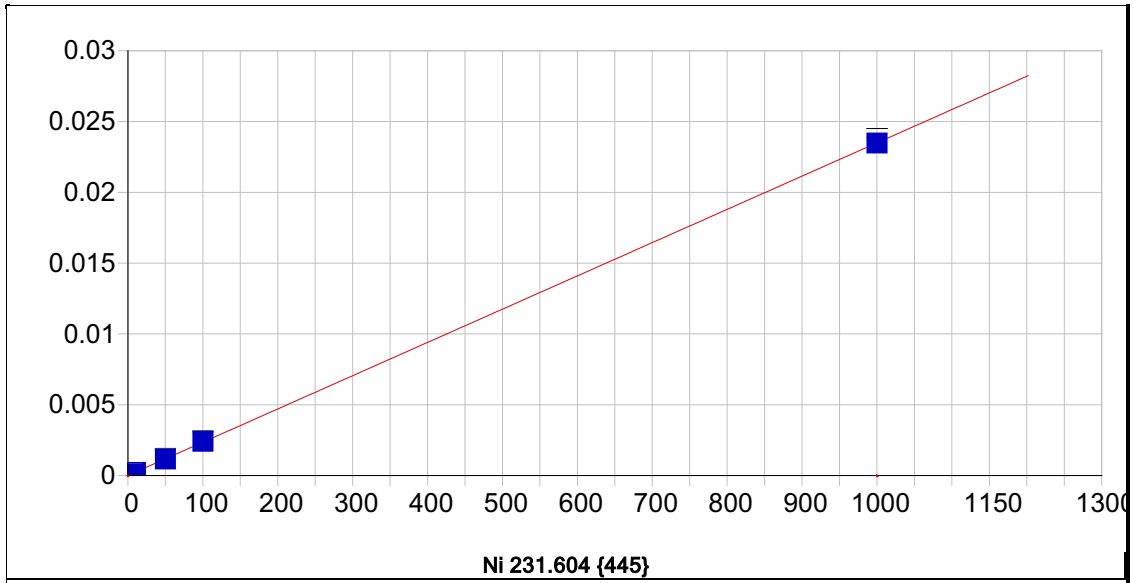


Ni 221.647 {452}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000459	Re-Slope:	1.000000
A1 (Gain):	0.000021	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999984	Status:	OK.
Std Error of Est:	0.000697		
Predicted MDL:	0.450120		
Predicted MQL:	1.500399		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-22.433	-22.4	.000	-.00001	.000	1
CalibStd=100	10000.	9996.2	-3.83	-.038	.20767	.003	1
CalibStd=100	100.00	86.665	-13.3	-13.3	.00226	.000	1
CalibStd=100	1000.0	1039.6	39.6	3.96	.02201	.000	1

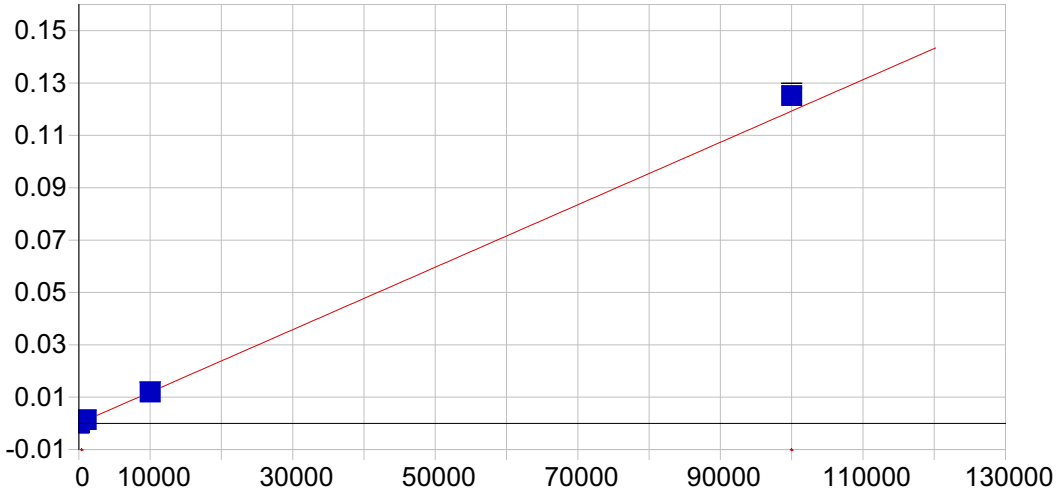


Ni 231.604 {445}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000023	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999962	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.525545		
Predicted MQL:	1.751816		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00041	.000	.000	.00000	.000	1
CalibStd=50	50.000	49.216	-.784	-1.57	.00116	.000	1
CalibStd=10	10.000	9.7373	-.263	-2.63	.00023	.000	1
CalibStd=100	100.00	102.21	2.21	2.21	.00240	.000	1
CalibStd=5	5.0000	4.6912	-.309	-6.18	.00011	.000	1
CalibStd=100	1000.0	999.15	-.850	-.085	.02348	.000	1

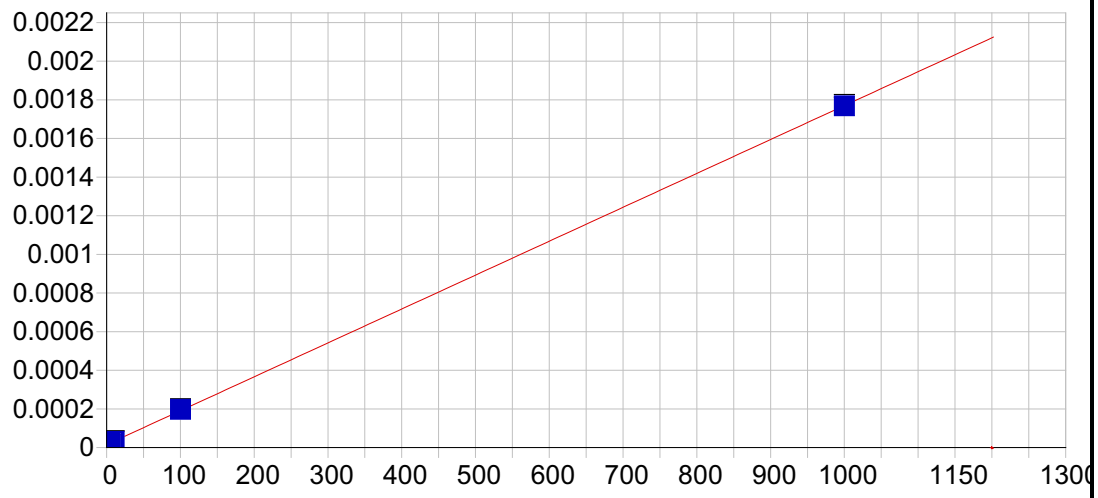


Pb 216.999 {455}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	6.010049		
Predicted MQL:	20.033495		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01893	-.019	.000	.00000	.000	1
CalibStd=100	1000.0	1065.8	65.8	6.58	.00128	.000	1
CalibStd=100	10000.	9962.8	-37.2	-.372	.01197	.000	1
CalibStd-100	100000.	104920.	4920.	4.92	.12519	.001	1
CalibStd=100	100.00	113.26	13.3	13.3	.00014	.000	1

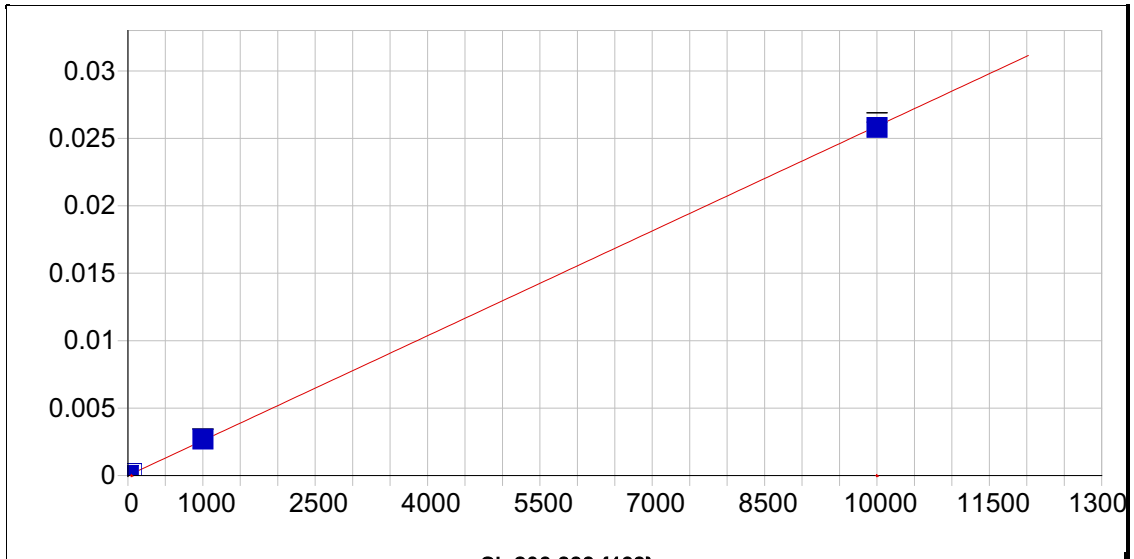


Pb 220.353 {453}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000015	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999285	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	4.272511		
Predicted MQL:	14.241703		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00269	.003	.000	.00002	.000	1
CalibStd=10	10.000	9.5843	-.416	-4.16	.00003	.000	1
CalibStd=100	100.00	103.82	3.82	3.82	.00020	.000	1
CalibStd=5	5.0000	2.3262	-2.67	-53.5	.00002	.000	1
CalibStd=100	1000.0	999.27	-.730	-.073	.00177	.000	1

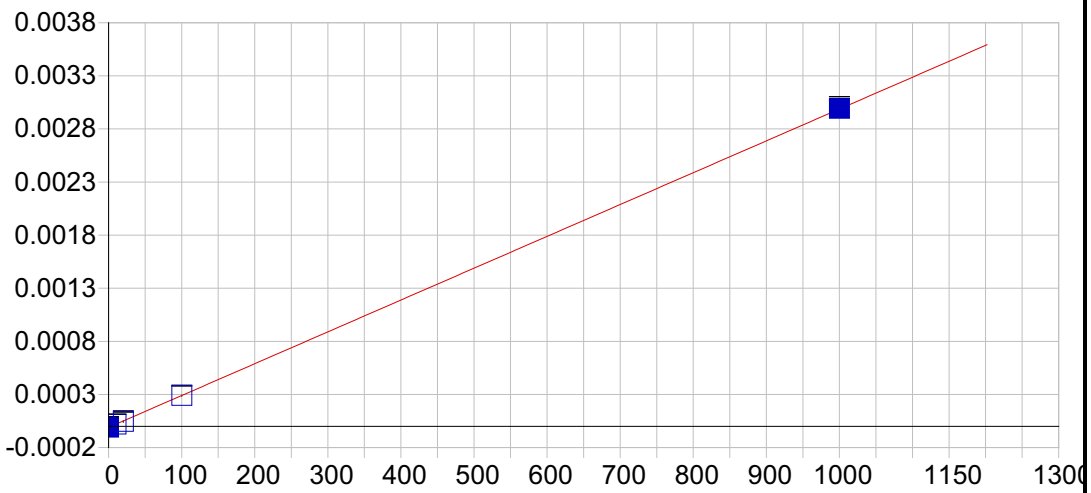


Sb 206.833 {463}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999922	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	2.050625		
Predicted MQL:	6.835415		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00048	.000	.000	.00000	.000	1
CalibStd=100	1000.0	1038.6	38.6	3.86	.00269	.000	1
CalibStd=10	10.000	9.7462	-.254	-2.54	.00003	.000	1
CalibStd=50	50.000	51.956	1.96	3.91	.00014	.000	1
CalibStd=100	10000.	9959.7	-40.3	-.403	.02581	.000	1

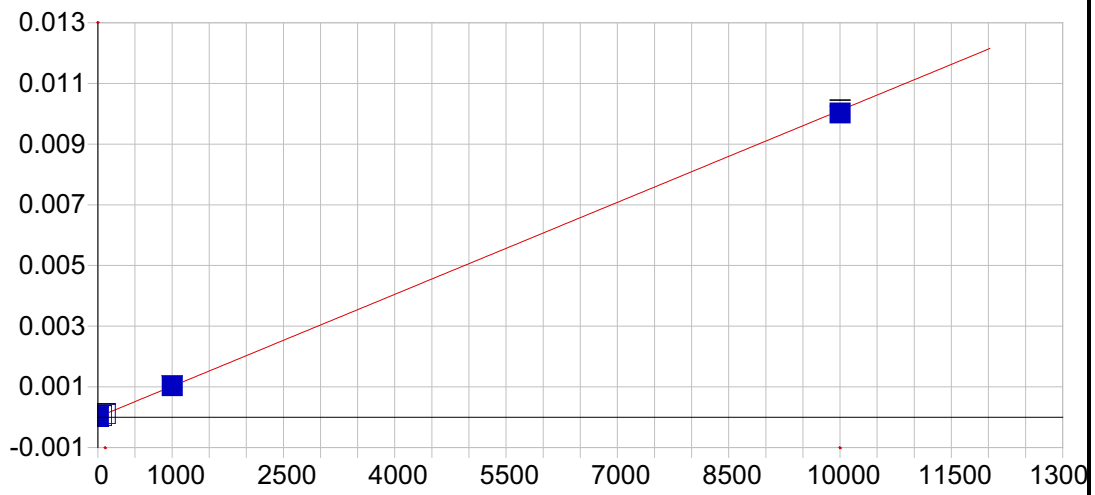


Sb 217.581 {455}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000010	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999940	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	2.638641		
Predicted MQL:	8.795468		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00096	.001	.000	-.00001	.000	1
CalibStd=100	1000.0	1002.0	1.98	.198	.00299	.000	1
CalibStd=20	20.000	18.403	-1.60	-7.99	.00005	.000	1
CalibStd=10	10.000	9.8370	-.163	-1.63	.00002	.000	1
CalibStd=100	100.00	99.779	-.221	-.221	.00029	.000	1

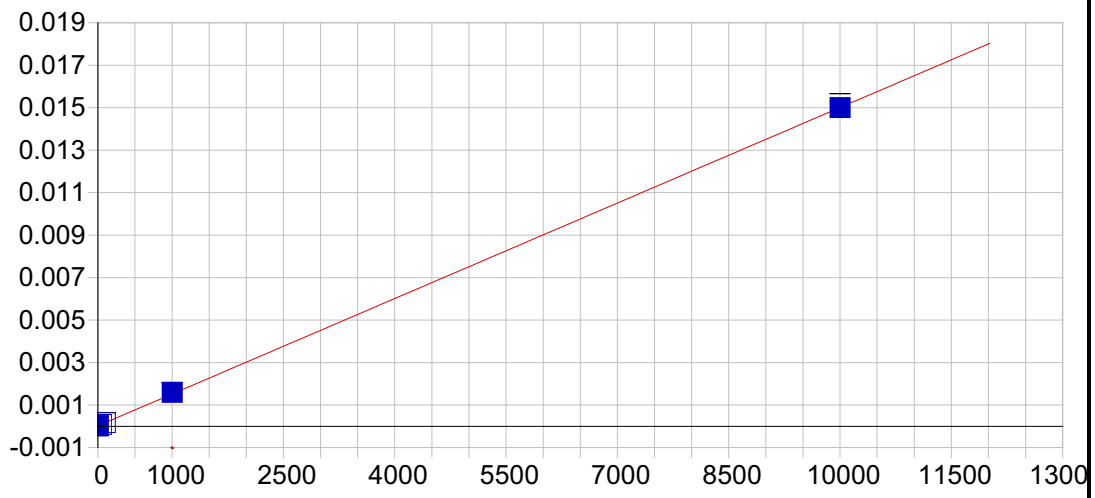


Se 196.090 {172}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.000008	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999810	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	9.091661		
Predicted MQL:	30.305538		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00685	.007	.000	.00001	.000	1
CalibStd=50	50.000	44.081	-5.92	-11.8	.00005	.000	1
CalibStd=100	1000.0	1012.9	12.9	1.29	.00103	.000	1
CalibStd=10	10.000	4.2754	-5.72	-57.2	.00001	.000	1
CalibStd=100	100.00	99.178	-.822	-.822	.00011	.000	1
CalibStd=100	10000.	9910.5	-89.5	-.895	.01002	.000	1

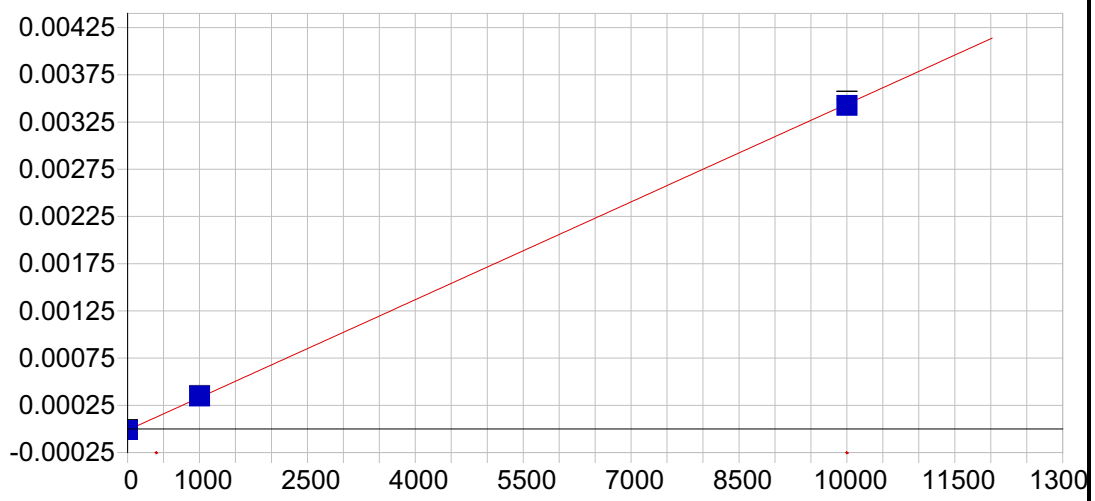


Se 196.090 {472}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000021	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000037		
Predicted MDL:	3.217584		
Predicted MQL:	10.725279		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-12.974	-13.0	.000	.00000	.000	1
CalibStd=50	50.000	41.052	-8.95	-17.9	.00008	.000	1
CalibStd=100	1000.0	1044.0	44.0	4.40	.00159	.000	1
CalibStd=10	10.000	-2.6931	-12.7	-127.	.00002	.000	1
CalibStd=100	100.00	94.923	-5.08	-5.08	.00016	.000	1
CalibStd=100	10000.	9995.7	-4.29	-.043	.01500	.000	1

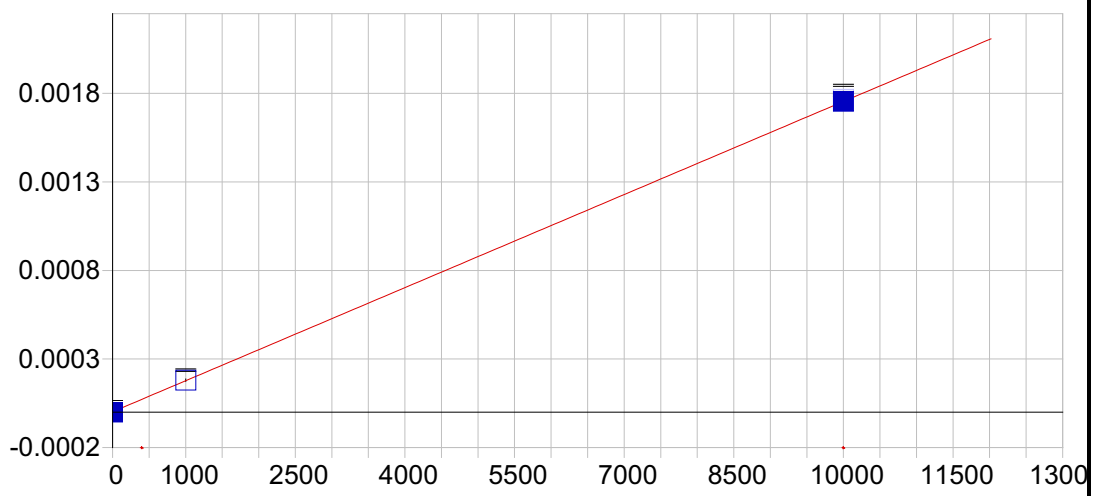


Se 206.279 {463}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000013	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999901	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	21.944313		
Predicted MQL:	73.147710		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.03995	-.040	.000	-.00001	.000	1
CalibStd=100	1000.0	1044.4	44.4	4.44	.00035	.000	1
CalibStd=100	10000.	9955.6	-44.4	-.444	.00343	.000	1

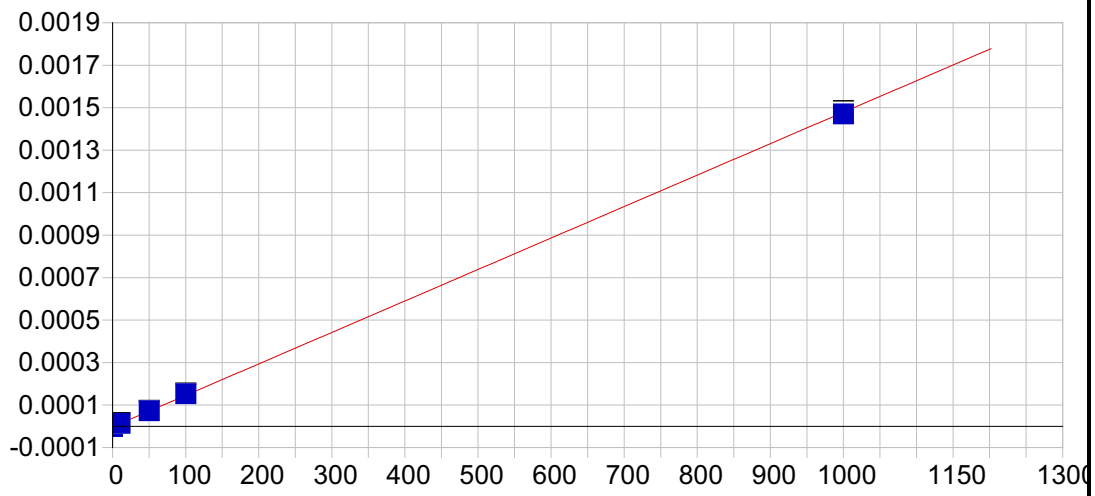


Tl 276.787 {122}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	100.515144		
Predicted MQL:	335.050479		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-13.318	-13.3	.000	.00000	.000	1
CalibStd=100	1000.0	1014.8	14.8	1.48	.00018	.000	1
CalibStd=100	10000.	9998.5	-1.47	-.015	.00177	.000	1

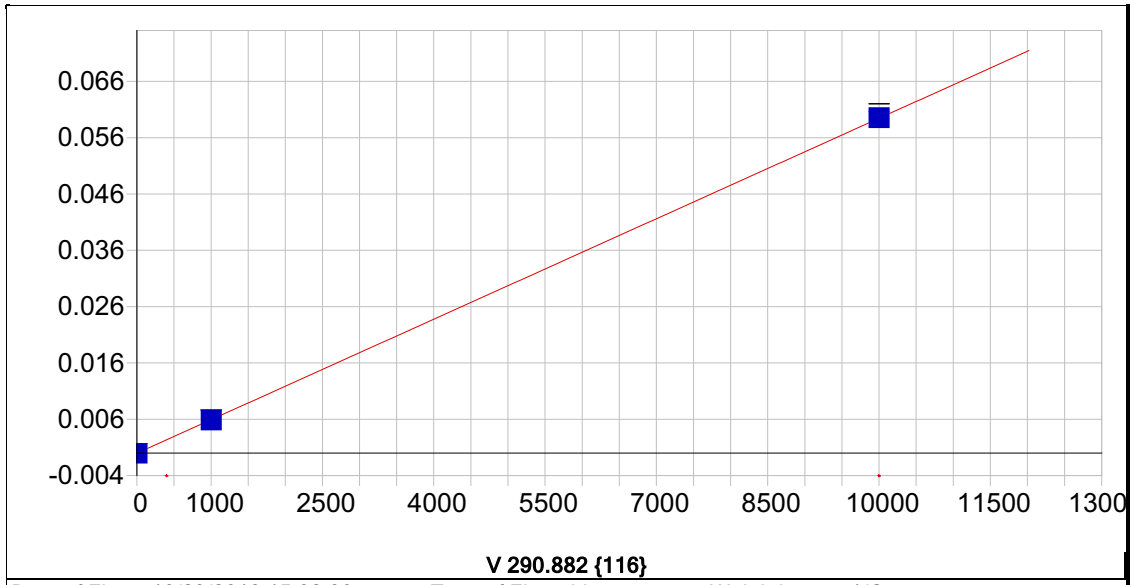


Tl 190.856 {477}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999870	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	2.611042		
Predicted MQL:	8.703474		

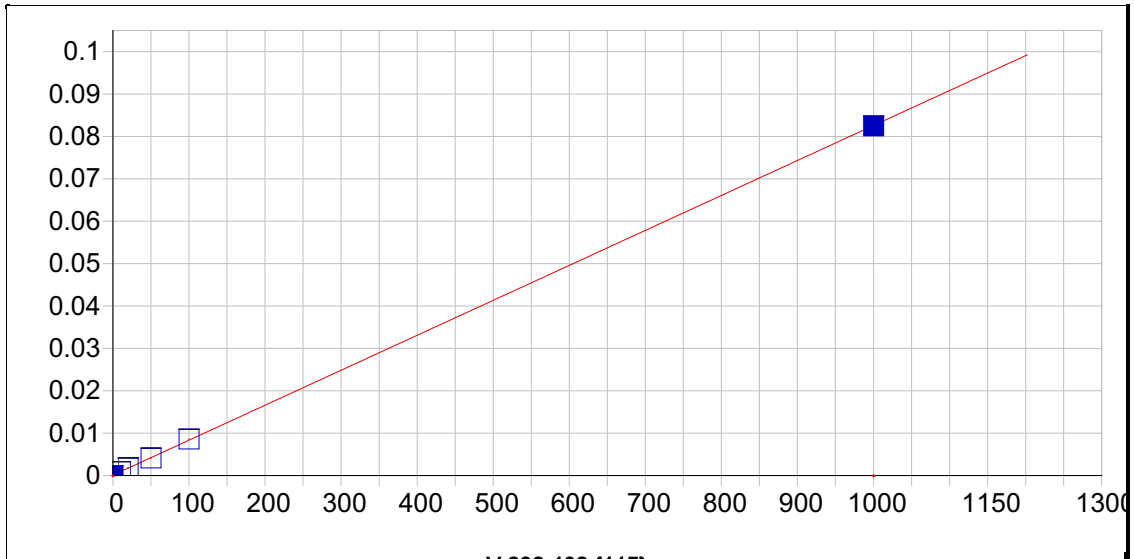
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00111	-.001	.000	.00000	.000	1
CalibStd=50	50.000	50.369	.369	.737	.00007	.000	1
CalibStd=100	1000.0	994.24	-5.76	-.576	.00147	.000	1
CalibStd=100	100.00	104.78	4.78	4.78	.00015	.000	1
CalibStd=10	10.000	10.618	.618	6.18	.00001	.000	1



Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000028	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	4.372132		
Predicted MQL:	14.573772		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01118	.011	.000	-.00003	.000	1
CalibStd=100	1000.0	987.58	-12.4	-1.24	.00585	.000	1
CalibStd=100	10000.	10012.	12.4	.124	.05952	.001	1

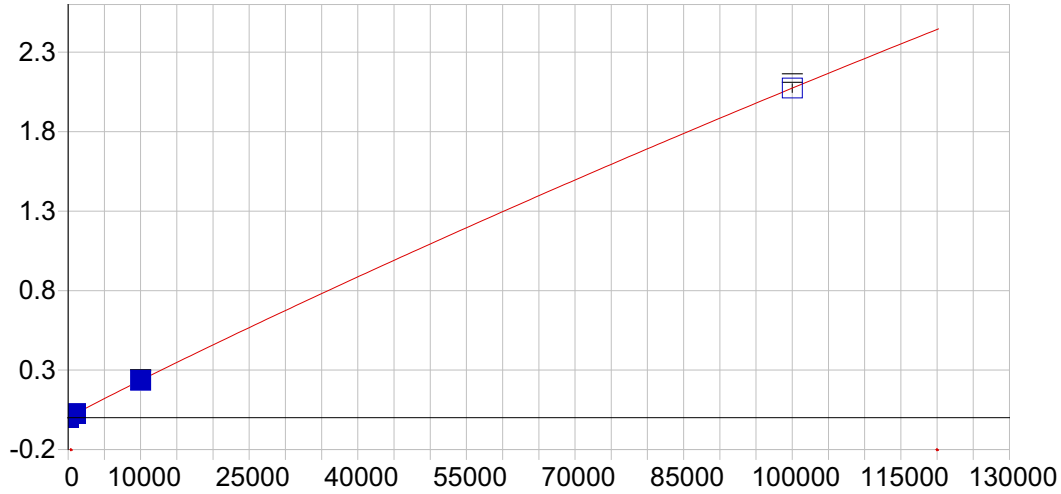


V 292.402 {115}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000090	Re-Slope:	1.000000
A1 (Gain):	0.000082	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999934	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.618000		
Predicted MQL:	2.060002		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00032	.000	.000	.00009	.000	1
CalibStd=50	50.000	48.472	-1.53	-3.06	.00409	.000	1
CalibStd=100	1000.0	998.10	-1.90	-.190	.08243	.000	1
CalibStd=20	20.000	20.871	.871	4.35	.00181	.000	1
CalibStd=10	10.000	9.9466	-.053	-.534	.00091	.000	1
CalibStd=100	100.00	102.61	2.61	2.61	.00855	.000	1

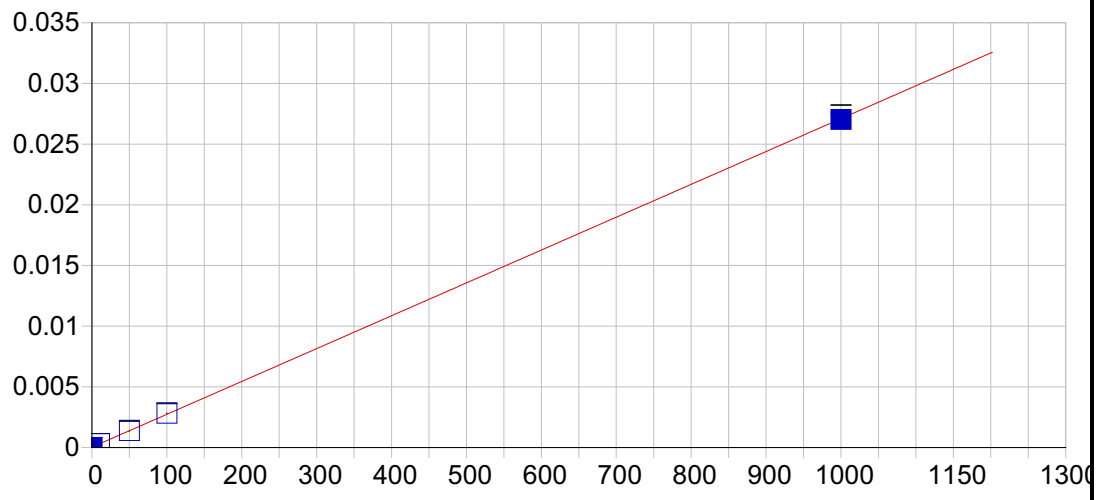


Zn 206.200 {463}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Full Fit	Weighting:	None

A0 (Offset):	-0.000107	Re-Slope:	1.000000
A1 (Gain):	0.000031	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	0.970000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.188931		
Predicted MQL:	0.629770		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
CalibStd=100	10000.	10001.	.647	.006	.23542	.003	1
Blank	.00000	3.6344	3.63	.000	.00000	.000	1
CalibStd=100	1000.0	994.97	-5.03	-.503	.02516	.000	1
CalibStd-100	100000.	100000.	-.008	.000	2.0739	.027	1

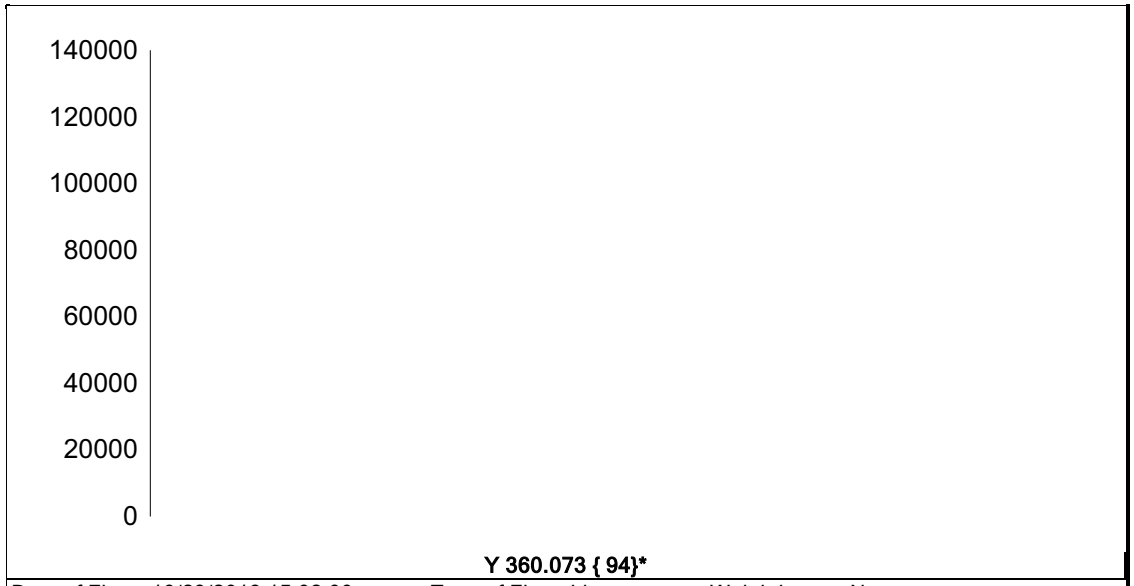


Zn 213.856 {458}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000032	Re-Slope:	1.000000
A1 (Gain):	0.000027	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999955	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.171774		
Predicted MQL:	0.572581		

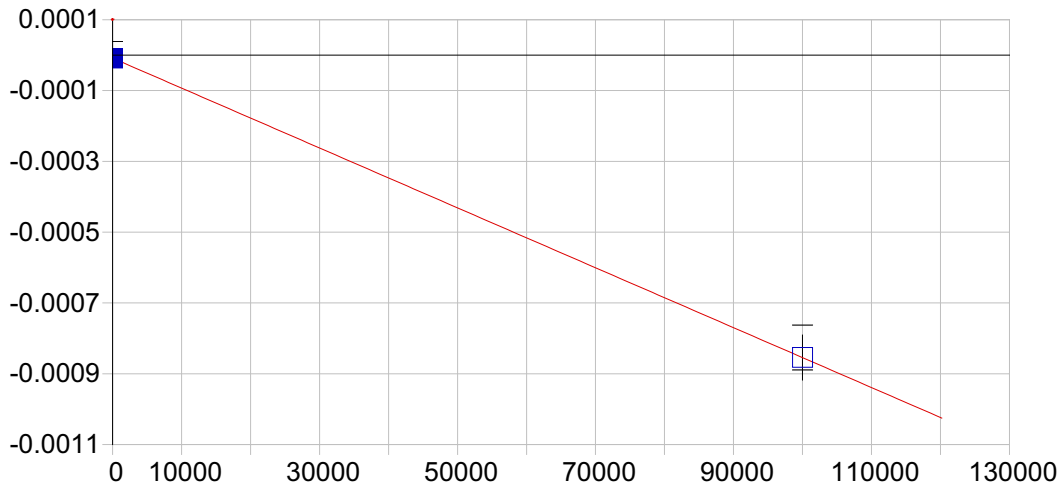
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00059	-.001	.000	.00003	.000	1
CalibStd=100	100.00	102.80	2.80	2.80	.00281	.000	1
CalibStd=50	50.000	49.700	-.300	-.600	.00138	.000	1
CalibStd=10	10.000	10.403	.403	4.03	.00031	.000	1
CalibStd=100	1000.0	997.09	-2.91	-.291	.02703	.000	1



Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	127040.	527.	1

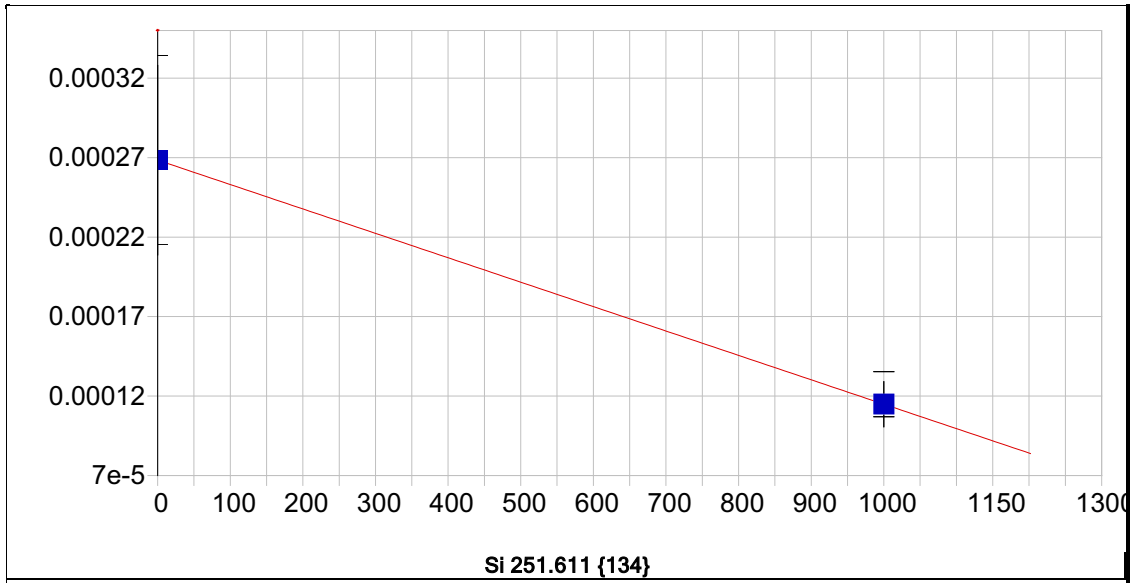


Na 330.298 {102}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000008	Re-Slope:	1.000000
A1 (Gain):	-0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	Warning Negative Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00001	.000	1
CalibStd-100	100000.	100000.	.000	.000	-.00085	.000	1

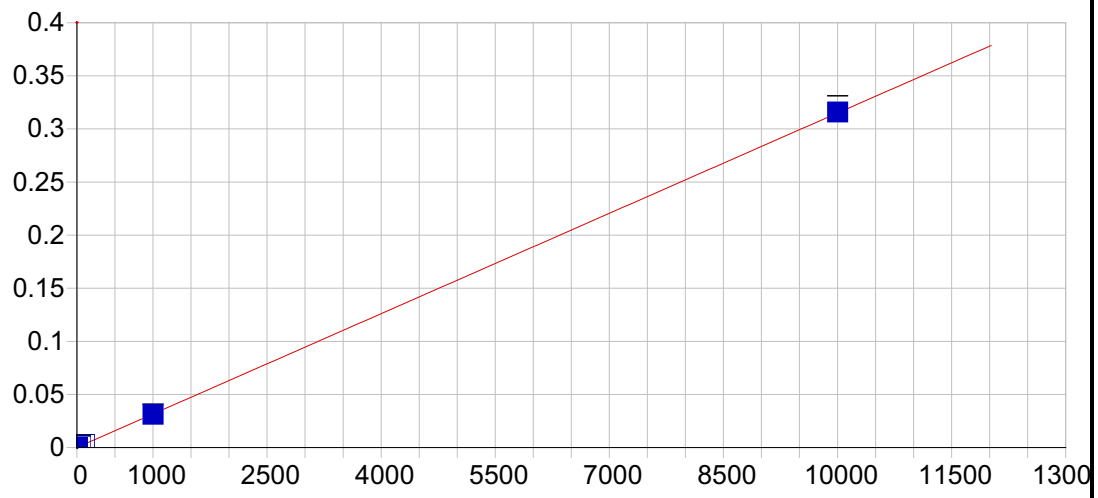


Si 251.611 {134}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000268	Re-Slope:	1.000000
A1 (Gain):	-0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	Warning Negative Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00027	.000	1
CalibStd=100	1000.0	1000.0	.000	.000	.00011	.000	1

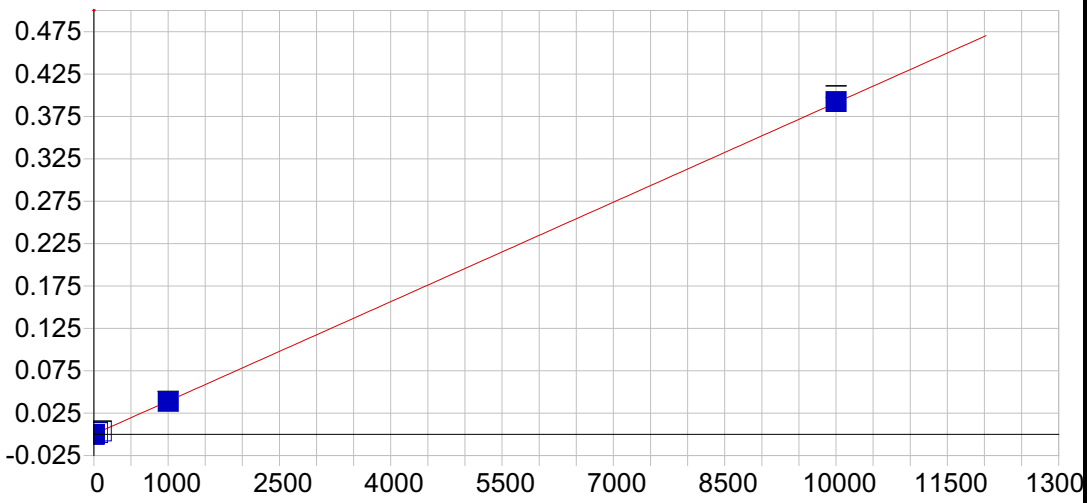


Ti 334.941 {101}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000105	Re-Slope:	1.000000
A1 (Gain):	0.000031	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999317	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.713771		
Predicted MQL:	2.379235		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00446	.004	.000	.00010	.000	1
CalibStd=10	10.000	7.1471	-2.85	-28.5	.00033	.000	1
CalibStd=100	100.00	99.266	-.734	-.734	.00323	.000	1
CalibStd=100	1000.0	989.26	-10.7	-1.07	.03126	.000	1
CalibStd=100	10000.	10025.	24.9	.249	.31582	.006	1
CalibStd=50	50.000	45.771	-4.23	-8.46	.00155	.000	1
CalibStd=1	1.0000	-2.5054	-3.51	-351.	.00003	.000	1
CalibStd=5	5.0000	2.1728	-2.83	-56.5	.00017	.000	1

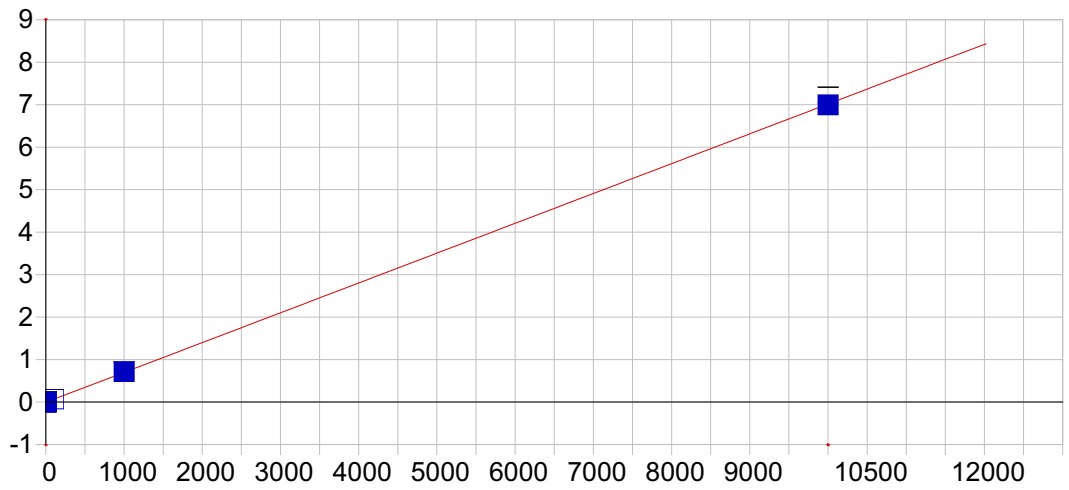


Ti 337.280 {100}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000058	Re-Slope:	1.000000
A1 (Gain):	0.000039	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999488	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.782604		
Predicted MQL:	2.608681		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00385	.004	.000	.00006	.000	1
CalibStd=10	10.000	7.1634	-2.84	-28.4	.00034	.000	1
CalibStd=100	100.00	96.629	-3.37	-3.37	.00384	.000	1
CalibStd=100	1000.0	987.14	-12.9	-1.29	.03867	.000	1
CalibStd=100	10000.	10029.	29.3	.293	.39239	.007	1
CalibStd=50	50.000	45.528	-4.47	-8.94	.00184	.000	1
CalibStd=1	1.0000	-1.8455	-2.85	-285.	-.00001	.000	1
CalibStd=5	5.0000	2.0409	-2.96	-59.2	.00014	.000	1

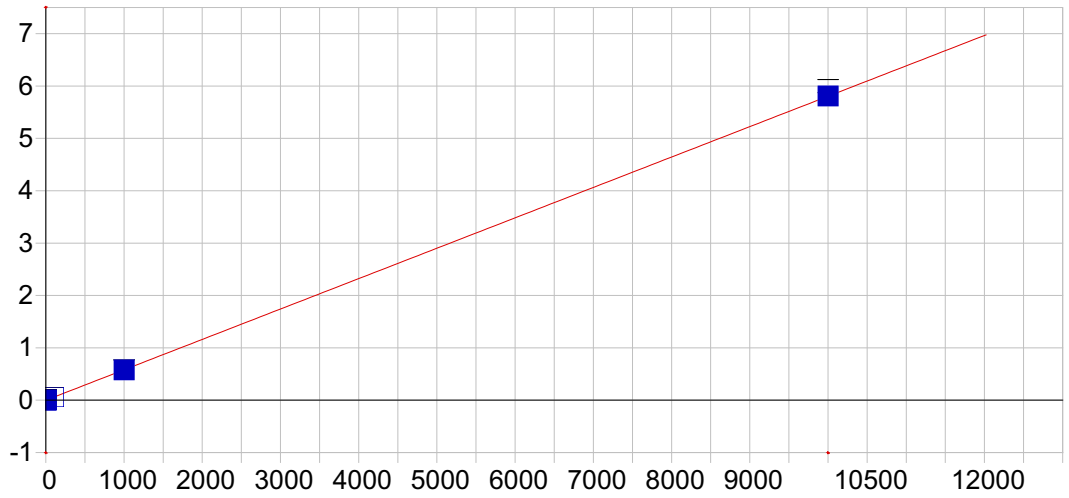


Sr 407.771 { 83}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.004868	Re-Slope:	1.000000
A1 (Gain):	0.000702	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999955	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.081542		
Predicted MQL:	0.271807		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00009	.000	.000	-.00487	.000	1
CalibStd=1	1.0000	.97507	-.025	-2.49	-.00418	.000	1
CalibStd=5	5.0000	5.0335	.034	.671	-.00133	.000	1
CalibStd=10	10.000	10.423	.423	4.23	.00245	.000	1
CalibStd=100	100.00	104.57	4.57	4.57	.06856	.001	1
CalibStd=100	1000.0	1026.2	26.2	2.62	.71569	.004	1
CalibStd=100	10000.	9968.8	-31.2	-.312	6.9950	.182	1

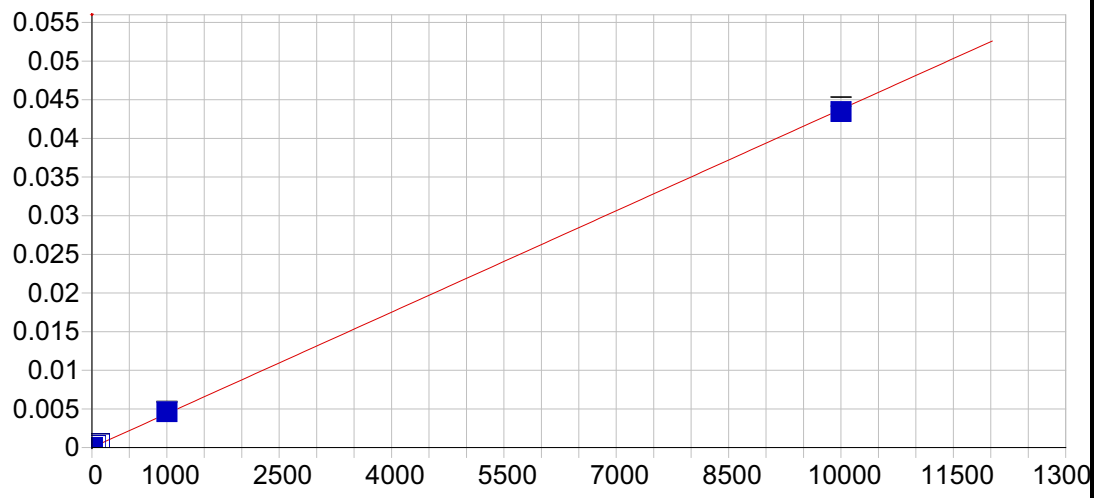


Sr 421.552 { 80}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000124	Re-Slope:	1.000000
A1 (Gain):	0.000581	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.085871		
Predicted MQL:	0.286237		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00002	.000	.000	-.00012	.000	1
CalibStd=1	1.0000	1.0044	.004	.438	.00046	.000	1
CalibStd=5	5.0000	4.9851	-.015	-.299	.00277	.000	1
CalibStd=10	10.000	10.108	.108	1.08	.00574	.000	1
CalibStd=100	100.00	101.04	1.04	1.04	.05854	.000	1
CalibStd=100	1000.0	994.42	-5.58	-.558	.57718	.002	1
CalibStd=100	10000.	10004.	4.44	.044	5.8079	.126	1

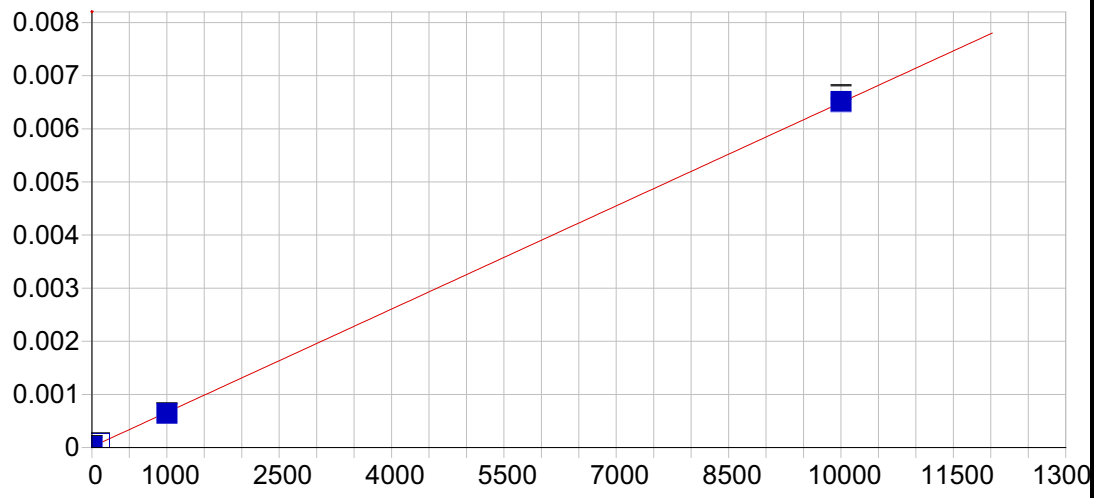


Sn 189.989 {477}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000007	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999795	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.823522		
Predicted MQL:	2.745074		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00214	-.002	.000	.00001	.000	1
CalibStd=100	10000.	9932.1	-67.9	-.679	.04347	.001	1
CalibStd=100	1000.0	1054.6	54.6	5.46	.00462	.000	1
CalibStd=100	100.00	108.80	8.80	8.80	.00048	.000	1
CalibStd=10	10.000	11.089	1.09	10.9	.00006	.000	1
CalibStd=50	50.000	52.811	2.81	5.62	.00024	.000	1
CalibStd=5	5.0000	5.6352	.635	12.7	.00003	.000	1

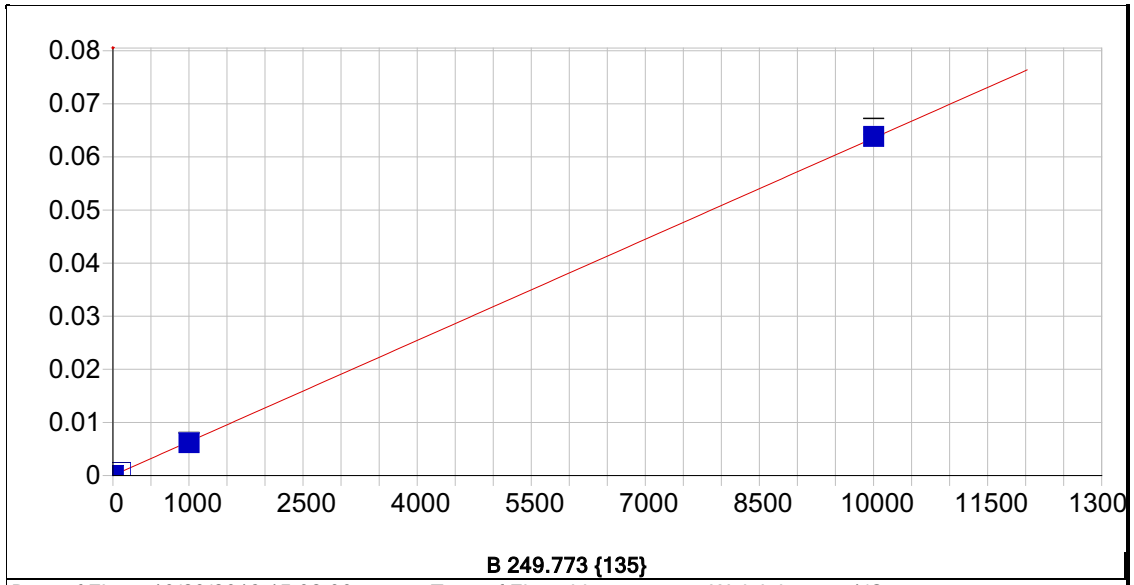


Sn 283.999 {119}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000015	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	23.985915		
Predicted MQL:	79.953052		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00262	.003	.000	.00001	.000	1
CalibStd=100	10000.	10031.	30.7	.307	.00649	.000	1
CalibStd=100	1000.0	969.12	-30.9	-3.09	.00064	.000	1
CalibStd=100	100.00	100.16	.164	.164	.00008	.000	1

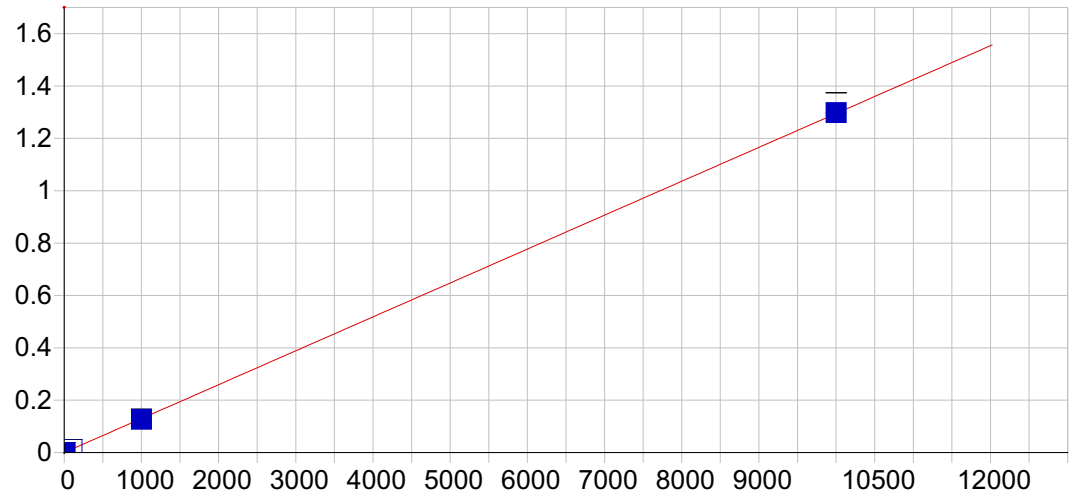


B 249.773 {135}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000028	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999891	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	1.806382		
Predicted MQL:	6.021274		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00367	.004	.000	.00003	.000	1
CalibStd=100	100.00	96.328	-3.67	-3.67	.00064	.000	1
CalibStd=10	10.000	7.0035	-3.00	-30.0	.00007	.000	1
CalibStd=100	1000.0	964.97	-35.0	-3.50	.00617	.000	1
CalibStd=100	10000.	10042.	41.7	.417	.06390	.002	1



Li 670.784 { 50}

Date of Fit:	10/29/2013 15:02:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000119	Re-Slope:	1.000000
A1 (Gain):	0.000130	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.746482		
Predicted MQL:	2.488274		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00065	-.001	.000	.00012	.000	1
CalibStd=10	10.000	10.728	.728	7.28	.00151	.000	1
CalibStd=100	100.00	101.41	1.41	1.41	.01325	.000	1
CalibStd=100	1000.0	975.72	-24.3	-2.43	.12649	.001	1
CalibStd=100	10000.	10022.	22.1	.221	1.2982	.038	1

Sample Name: Blank Acquired: 10/23/2013 15:05:28 Type: Cal
Method: DOD Calibration 1(v1510) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	Al1670	As1937	As1890	Ba4554	Ba4934	Be3130	Be2348	Ca3179	Ca3933
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.000	.000	.000	.000	.000	.000	-.004	.000	.000	.010	.004
Stddev	.00	.000	.000	.000	.00	.00	.000	.000	.00	.000	.000	.000
%RSD	6.72	12.6	34.6	23.1	119.	94.7	13.5	2.12	2.10	823.	.671	6.35

Elem	Cd2265	Cd2288	Co2286	Co2388	Cr2677	Cr2835	Cu2247	Cu3247	Fe2343	Fe2395	Fe2599	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Stddev	.00	.000	.000	.000	.00	.000	.000	.000	.000	.000	.000	.00
%RSD	22.9	24.7	776.	51.9	353.	56.8	193.	3.64	17.6	42.5	22.5	14.7

Elem	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Stddev	.000	.000	.000	.000	.00	.00	.000	.000	.000	.000	.00	.000
%RSD	14.9	107.	46.8	720.	98.0	33.0	65.2	7560.	42.5	85.3	65.7	128.

Elem	Se1960	Se2062	Tl2767	Tl1908	V_2908	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.000	.000	.000	.000	.000	.000	.000
Stddev	.000	.00	.00	.00	.00	.000	.000	.000
%RSD	189.	15.0	3740.	19.2	51.4	40.0	217.	4.42

Int. Std.	Y_3600
Units	Cts/S
Avg	127040.
Stddev	527.
%RSD	.41478

Sample Name: CalibStd=0.25 Acquired: 10/23/2013 15:09:18 Type: Cal
Method: DOD Calibration 1(v1510) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Be3130
Units	Cts/S
Avg	.000
Stddev	.00
%RSD	3.21

Int. Std.	Y_3600
Units	Cts/S
Avg	128210.
Stddev	1242.
%RSD	.96899

Sample Name: CalibStd=0.5 Acquired: 10/23/2013 15:13:10 Type: Cal
Method: DOD Calibration 1(v1510) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Be3130	Cd2265
Units	Cts/S	Cts/S
Avg	.000	.000
Stddev	.00	.00
%RSD	6.87	4680.

Int. Std.	Y_3600
Units	Cts/S
Avg	127090.
Stddev	883.
%RSD	.69519

Sample Name: CalibStd=1 Acquired: 10/23/2013 15:17:03 Type: Cal
Method: DOD Calibration 1(v1510) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Cd2265
Units	Cts/S	Cts/S
Avg	.000	.000
Stddev	.00	.000
%RSD	11.5	29.0

Int. Std.	Y_3600
Units	Cts/S
Avg	128100.
Stddev	638.
%RSD	.49782

Sample Name: CalibStd=5 Acquired: 10/23/2013 15:21:05 Type: Cal
Method: DOD Calibration 1(v1510) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al1670	Ba4554	Be3130	Cd2265	Co2286	Cu2247	Mn2576	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.003	.001	.000	.000	.000	.000	.000	.000
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	2.05	1.18	.948	3.90	1.62	5.49	3.55	7.46	18.4

Int. Std.	Y_3600
Units	Cts/S
Avg	127650.
Stddev	638.
%RSD	.49980

Sample Name: CalibStd=10 Acquired: 10/23/2013 15:24:58 Type: Cal
Method: DOD Calibration 1(v1510) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Cd2265	Co2286	Cr2677	Cu2247	Mn2576	Mo2020	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.000	.000	.005	.001	.000	.000	.000	.000	.000	.000	.000
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	174.	2.00	53.3	1.25	2.54	1.69	2.84	8.03	5.41	.888	3.59	2.29

Elem	Pb2203	Sb2068	Sb2175	Se1960	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.000	.000	.000	.000	.000	.001	.000
Stddev	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	6.00	12.4	12.3	42.0	9.72	24.1	4.02	1.47

Int. Std.	Y_3600
Units	Cts/S
Avg	128890.
Stddev	544.
%RSD	.42195

Sample Name: CalibStd=20 Acquired: 10/23/2013 15:28:57 Type: Cal
Method: DOD Calibration 1(v1510) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ba4554	Cr2677	Cu2247	Fe2599	Mn2576	Mo2020	Sb2175	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.010**	**.000**	**.000**	**.000**	**.001**	**.000**	**.000**	**.002**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	.890	5.61	2.20	3.77	.281	1.04	14.7	2.27

Int. Std.	Y_3600
Units	Cts/S
Avg	**128440.**
Stddev	202.
%RSD	.15724

Sample Name: CalibStd=50 Acquired: 10/23/2013 15:32:48 Type: Cal
Method: DOD Calibration 1(v1510) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al1670	As1937	Ba4554	Ca3933	Cd2265	Co2286	Cr2677	Cr2835	Cu2247	Fe2599	Mg2802	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.000	.000	.022	.054	.001	.002	.001	.001	.001	.000	.004	.001
Stddev	.000	.000	.001	.001	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	2.98	1.38	2.73	2.47	2.92	2.00	.243	4.03	3.08	1.34	2.80	3.21

Elem	Mo2020	Mo2045	Ni2316	Sb2068	Se1960	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.001	.000	.001	.000	.000	.000	.000	.004	.001
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	2.97	4.13	3.36	4.90	11.2	1.39	3.74	.864	2.89

Int. Std.	Y_3600
Units	Cts/S
Avg	128990.
Stddev	752.
%RSD	.58302

Sample Name: CalibStd=100 Acquired: 10/23/2013 15:37:02 Type: Cal
Method: DOD Calibration 1(v1510) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	As1937	As1890	Ba4554	Ba4934	Be3130	Be2348	Ca3933	Cd2265	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.000**	**.046**	**.031**	**.016**	**.002**	**.102**	**.002**	**.005**	**.003**	**.002**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.51	1.76	2.90	.668	1.29	.662	.266	.273	1.31	1.14	1.55	.701

Elem	Cr2835	Cu2247	Cu3247	Fe2599	Mg2802	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.002**	**.001**	**.000**	**.008**	**.002**	**.001**	**.000**	**.002**	**.002**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	.324	.834	1.14	1.56	.767	.263	1.68	1.29	1.60	1.03	3.51	1.32

Elem	Sb2175	Se1960	Se1960	Tl1908	V_2924	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.009**	**.003**
Stddev	.000	.000	.000	.000	.000	.000
%RSD	1.62	7.78	.371	1.88	.329	1.16

Int. Std.	Y_3600
Units	Cts/S
Avg	**128080.**
Stddev	634.
%RSD	.49511

Sample Name: CalibStd=1000 Acquired: 10/23/2013 15:40:46 Type: Cal
Method: DOD Calibration 1(v1510) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3092	Al1670	As1937	As1890	Ba4934	Be2348	Ca3179	Ca3933	Cd2265	Cd2288	Co2286	Co2388
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.003**	**.003**	**.001**	**.000**	**.343**	**.016**	**.015**	**.918**	**.019**	**.049**	**.032**	**.003**
Stddev	.000	.000	.000	.000	.002	.000	.000	.004	.000	.000	.000	.000
%RSD	1.09	1.25	1.27	1.44	.668	.657	.267	.482	.985	.891	1.18	.269

Elem	Cr2677	Cr2835	Cu2247	Cu3247	Fe2343	Fe2395	Fe2599	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.023**	**.010**	**.016**	**.007**	**.000**	**.001**	**.004**	**.080**	**.024**	**.030**	**.010**	**.005**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	.572	.897	1.36	.363	1.44	.604	.213	.450	.576	.500	1.25	1.06

Elem	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se1960	Se2062	Tl2767	Tl1908	V_2908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.022**	**.023**	**.001**	**.002**	**.003**	**.003**	**.001**	**.002**	**.000**	**.000**	**.001**	**.006**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.38	1.36	.983	.406	.694	.531	.916	.669	1.81	3.73	.991	.611

Elem	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S
Avg	**.082**	**.025**	**.027**
Stddev	.000	.000	.000
%RSD	.173	1.45	1.37

Int. Std.	Y_3600
Units	Cts/S
Avg	**127450.**
Stddev	780.
%RSD	.61174

Sample Name: CalibStd=10000 Acquired: 10/23/2013 15:44:16 Type: Cal
Method: DOD Calibration 1(v1510) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3092	Al3961	As1890	Ba4554	Ba4934	Ca3179	Co2388	Cr2835	Cu2247	Cu3247	Fe2343	Fe2395
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.028**	**.073**	**.005**	**4.39**	**3.43**	**.063**	**.032**	**.102**	**.149**	**.070**	**.005**	**.012**
Stddev	.000	.001	.000	.19	.11	.001	.000	.001	.002	.001	.000	.000
%RSD	1.28	1.52	1.19	4.24	3.05	.983	1.26	1.03	1.23	2.02	1.01	.975

Elem	Fe2599	Mg2025	Mg2802	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se1960	Se1960	Se2062	Tl2767
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.045**	**.027**	**.777**	**.302**	**.047**	**.208**	**.012**	**.026**	**.010**	**.015**	**.003**	**.002**
Stddev	.001	.000	.016	.004	.001	.003	.000	.000	.000	.000	.000	.000
%RSD	1.23	1.35	2.08	1.31	1.30	1.33	1.23	1.34	1.02	1.26	1.28	1.64

Elem	V_2908	Zn2062
Units	Cts/S	Cts/S
Avg	**.060**	**.235**
Stddev	.001	.003
%RSD	1.19	1.44

Int. Std.	Y_3600
Units	Cts/S
Avg	**128320.**
Stddev	1862.
%RSD	1.4512

Sample Name: CalibStd-100k Acquired: 10/23/2013 15:47:58 Type: Cal
Method: DOD Calibration 1(v1510) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	As1890	Cr2835	Cu3247	Mn2593	Pb2169	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.042**	**1.03**	**.721**	**2.91**	**.125**	**2.07**
Stddev	.000	.03	.021	.11	.001	.03
%RSD	.857	2.55	2.85	3.59	.725	1.28

Int. Std.	Y_3600
Units	Cts/S
Avg	**126980.**
Stddev	645.
%RSD	.50760

Sample Name: CalibStd-100000 Acquired: 10/23/2013 15:52:08 Type: Cal
Method: DOD Calibration 1(v1510) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3092	Al3961	Ca3179	Fe2343	Fe2395	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.274	.697	.469	.044	.115	.238
Stddev	.004	.011	.011	.001	.002	.002
%RSD	1.64	1.64	2.30	1.85	2.02	.980

Int. Std.	Y_3600
Units	Cts/S
Avg	127010.
Stddev	385.
%RSD	.30320

Sample Name: CalibStd=500000 Acquired: 10/23/2013 15:56:11 Type: Cal
Method: DOD Calibration 1(v1510) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.71**	**2.19**	**.220**	**1.05**
Stddev	.10	.08	.007	.01
%RSD	2.59	3.81	3.21	1.07

Int. Std.	Y_3600
Units	Cts/S
Avg	**121220.**
Stddev	294.
%RSD	.24251

Sample Name: CalibStd-1000k Acquired: 10/23/2013 16:00:15 Type: Cal
Method: DOD Calibration 1(v1510) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Al3961	Ca3179	Fe2343	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6.87**	**3.90**	**.388**	**1.76**
Stddev	.27	.15	.016	.03
%RSD	3.98	3.75	4.08	1.43

Int. Std.	Y_3600
Units	Cts/S
Avg	**118680.**
Stddev	899.
%RSD	.75720

Sample Name: icv Acquired: 10/23/2013 16:08:25 Type: QC
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2343	Mg2025
Avg	**50.0**	**11400.**	**2030.**	**2060.**	**49.8**	**10600.**	**48.2**	**493.**	**201.**	**260.**	**5460.**	**10400.**
Stddev	1.5	251.	7.	54.	1.1	231.	.2	2.	2.	2.	100.	74.
%RSD	2.97	2.20	.343	2.64	2.16	2.19	.388	.426	.821	.748	1.84	.718
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se2062	Tl2767	V_2924	Zn2138
Avg	**490.**	**486.**	**494.**	**493.**	**497.**	**2100.**	**2040.**	**505.**	**497.**
Stddev	11.	3.	2.	4.	4.	8.	133.	2.	2.
%RSD	2.20	.576	.429	.902	.787	.400	6.51	.474	.381
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**130640.**
Stddev	892.
%RSD	.68251

Sample Name: ICVLL Acquired: 10/23/2013 16:12:17 Type: QC
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**50.0**	**1230.**	**64.2**	**33.4**	**13.4**	**1740.**	**15.4**	**31.2**	**29.8**	**31.7**	**1000.**	**1620.**
Stddev	2.6	16.	3.1	.4	.1	23.	.4	.3	1.3	.4	15.	20.
%RSD	5.23	1.29	4.90	1.33	.858	1.34	2.58	.995	4.43	1.35	1.48	1.21
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**30.8**	**30.3**	**30.6**	**30.2**	**59.4**	**55.7**	**60.2**	**32.0**	**30.6**
Stddev	.6	.6	.5	2.2	.8	6.7	6.1	.8	.1
%RSD	2.05	1.92	1.62	7.26	1.43	12.0	10.1	2.57	.446
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**131340.**
Stddev	2256.
%RSD	1.7173

Sample Name: icb Acquired: 10/23/2013 16:20:01 Type: QC
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	.661	-.243	-1.70	-1.03	-.017	-.073	-.299	.070	-.299	.190	4.52	-5.54
Stddev	.766	.650	1.65	.04	.037	.020	.226	.068	1.85	.338	5.36	.11
%RSD	116.	268.	97.0	4.06	209.	27.7	75.4	97.5	619.	178.	118.	1.94
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	-.395	-.738	-.934	-1.97	-3.45	-13.4	1.45	-.154	-.279
Stddev	.357	.246	.143	2.30	2.35	2.9	.79	.311	.145
%RSD	90.5	33.4	15.3	117.	68.3	21.5	54.7	202.	52.0
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	129400.
Stddev	673.
%RSD	.52013

Sample Name: icsa Acquired: 10/23/2013 16:27:47 Type: QC
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1937	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2343
Avg	.000	470000.	.003	.148	.000	508000.	.000	.015	.001	.026	423000.
Stddev	1.97	7990.	10.7	.120	.007	13200.	.46	.476	.584	2.39	6970.
%RSD	.000	1.70	347000.	80.9	6129e12	2.59	540000.	3170.	72000.	9330.	1.65
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit											
Low Limit											

Elem	Mg2025	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	488000.	-.165	.000	.002	.001	.016	.037	.001	.001	.000
Stddev	2230.	.446	.85	1.45	2.58	6.26	5.05	3.01	.553	1.30
%RSD	.458	271.	329000.	59800.	185000.	39600.	13700.	262000.	102000.	611000.
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_3600
Avg	121260.
Stddev	1169.
%RSD	.96399

Sample Name: icsab Acquired: 10/23/2013 16:31:51 Type: QC
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2343
Avg	**489.**	**474000.**	**494.**	**522.**	**513.**	**503000.**	**542.**	**525.**	**556.**	**419.**	**424000.**
Stddev	4.	20500.	15.	17.	19.	20100.	13.	18.	17.	21.	14900.
%RSD	.734	4.33	3.11	3.18	3.72	4.00	2.33	3.48	3.11	5.08	3.52
Check ?	None	None	None	None	None	None	None	None	None	None	None
Value											
Range											

Elem	Mg2025	Mn2576	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl2767	V_2908	Zn2062
Avg	**486000.**	**477.**	**515.**	**483.**	**432.**	**474.**	**447.**	**420.**	**533.**	**436.**
Stddev	9610.	17.	12.	11.	67.	15.	14.	718.	21.	11.
%RSD	1.98	3.57	2.25	2.27	15.5	3.25	3.05	171.	3.95	2.42
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**121690.**
Stddev	969.
%RSD	.79611

Sample Name: ccv1 Acquired: 10/23/2013 21:38:18 Type: QC
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2343
Avg	**511.**	**4950.**	**4850.**	**4900.**	**5270.**	**481.**	**5220.**	**456.**	**4800.**	**4700.**	**5370.**	**5400.**
Stddev	3.	119.	143.	40.	186.	13.	78.	3.	136.	117.	192.	127.
%RSD	.492	2.41	2.96	.819	3.53	2.75	1.49	.738	2.84	2.50	3.57	2.35
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Fe2395	Fe2599	Mg2025	Mg2802	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Sb2175	Se1960	Se2062
Avg	**4790.**	**4760.**	**5050.**	**4880.**	**4790.**	**4890.**	**4840.**	**5070.**	**4960.**	**4860.**	**4930.**	**4990.**
Stddev	111.	121.	32.	132.	133.	23.	28.	36.	27.	26.	14.	42.
%RSD	2.32	2.54	.641	2.70	2.77	.463	.569	.702	.537	.531	.274	.843
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Tl2767	Tl1908	V_2908	Zn2062
Avg	**5060.**	**4610.**	**4800.**	**4540.**
Stddev	248.	31.	135.	39.
%RSD	4.90	.674	2.81	.869
Check ?	None	None	None	None
Value				
Range				

Sample Name: ccv1 Acquired: 10/23/2013 21:38:18 Type: QC
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_3600
Avg	**128770.**
Stddev	753.
%RSD	.58510

Sample Name: ccv2 Acquired: 10/23/2013 21:42:18 Type: QC
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**51.1**	**461.**	**755.**	**529.**	**48.4**	**506.**	**41.7**	**409.**	**477.**	**468.**	**465.**	**468.**
Stddev	2.3	10.	190.	5.	.7	5.	1.4	3.	5.	12.	6.	8.
%RSD	4.51	2.10	25.1	.867	1.39	.913	3.45	.782	.976	2.48	1.36	1.73
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Se1960	Tl1908	V_2924	Zn2138
Avg	**468.**	**420.**	**420.**	**550.**	**434.**	**452.**	**742.**	**592.**	**466.**	**405.**
Stddev	8.	5.	4.	68.	7.	53.	193.	120.	2.	3.
%RSD	1.65	1.17	1.07	12.4	1.65	11.7	26.0	20.3	.494	.803
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Int. Std.	Y_3600
Avg	**130180.**
Stddev	596.
%RSD	.45774

Sample Name: ccb Acquired: 10/23/2013 21:45:38 Type: QC
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	-.113	-2.63	1.70	-.591	.050	-1.79	-.354	.511	-.072	.183	-4.30	-7.44
Stddev	.783	.41	1.86	.149	.061	.40	.229	.146	1.25	.190	1.86	.04
%RSD	692.	15.6	110.	25.3	123.	22.4	64.6	28.7	1720.	104.	43.3	.570
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	.009	1.89	-.794	-1.10	-.619	-9.96	2.79	.660	-.199
Stddev	.238	.29	.426	2.36	1.22	3.55	1.46	.156	.061
%RSD	2640.	15.3	53.7	215.	197.	35.7	52.3	23.6	30.8
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	130390.
Stddev	722.
%RSD	.55350

Sample Name: lcsw46547 Acquired: 10/23/2013 21:57:53 Type: Unk
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	As1890	Ba4554	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**23.3**	**805.**	**911.**	**882.**	**965.**	**961.**	**21.3**	**133.**	**21.7**	**213.**	**89.3**	**114.**
Stddev	.8	16.	16.	20.	14.	14.	.3	26.	.2	4.	1.1	2.
%RSD	3.32	1.92	1.77	2.32	1.50	1.48	1.45	19.8	.713	1.87	1.25	1.99

Elem	Fe2599	Mg2802	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Sb2175	Se1960	Se1960	Se2062	Tl2767
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**414.**	**13.0**	**208.**	**2.30**	**217.**	**221.**	**225.**	**220.**	**887.**	**918.**	**895.**	**884.**
Stddev	6.	3.6	4.	.83	4.	4.	4.	1.	7.	9.	21.	40.
%RSD	1.53	28.0	1.87	36.0	2.03	1.71	1.68	.358	.739	.951	2.38	4.48

Elem	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L
Avg	**872.**	**221.**	**207.**
Stddev	13.	3.	4.
%RSD	1.48	1.21	1.70

Int. Std.	Y_3600
Units	Cts/S
Avg	**128680.**
Stddev	790.
%RSD	.61380

Sample Name: mbw46547 Acquired: 10/23/2013 22:01:38 Type: Unk
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.088	-3.38	-.540	-.633	-.119	3.50	-.513	.001	-.195	.092	-4.79	-8.19
Stddev	.334	.27	2.61	.072	.120	.74	.409	.141	1.04	.296	1.11	.02
%RSD	378.	8.05	483.	11.3	101.	21.1	79.7	18800.	534.	323.	23.3	.219

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.639	-.203	-.636	-2.24	-1.04	-7.59	1.48	-.206	.668
Stddev	.252	.629	.344	2.60	.60	1.92	2.05	.332	.066
%RSD	39.4	309.	54.1	116.	58.0	25.4	139.	161.	9.88

Int. Std.	Y_3600
Units	Cts/S
Avg	128840.
Stddev	1063.
%RSD	.82532

Sample Name: 381285 Acquired: 10/23/2013 22:05:32 Type: Unk
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2395
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.30**	**491.**	**8.12**	**684.**	**679.**	**.714**	**42900.**	**3.66**	**28.0**	**.514**	**11800.**	**1130.**
Stddev	2.12	3.	3.40	10.	10.	.031	322.	.18	.1	.751	203.	3.
%RSD	163.	.520	41.9	1.41	1.42	4.28	.751	4.97	.458	146.	1.72	.293

Elem	Fe2599	Mg2802	Mn2593	Mo2020	Ni2316	Pb2169	Sb2068	Sb2175	Se1960	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1260.**	**2720.**	**2380.**	**-.840**	**27.4**	**10900.**	**559.**	**532.**	**6.51**	**-8.71**	**-1.98**	**891.**
Stddev	10.	26.	27.	.252	.4	27.	2.	3.	1.11	1.16	.18	4.
%RSD	.832	.964	1.14	30.0	1.40	.246	.443	.635	17.0	13.3	9.20	.483

Elem	Zn2138
Units	ug/L
Avg	**1040.**
Stddev	4.
%RSD	.354

Int. Std.	Y_3600
Units	Cts/S
Avg	**120740.**
Stddev	1507.
%RSD	1.2485

Sample Name: I381285 Acquired: 10/23/2013 22:09:22 Type: Unk
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2599
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.741**	**110.**	**2.08**	**151.**	**144.**	**.225**	**9780.**	**.108**	**6.13**	**-1.92**	**2580.**	**271.**
Stddev	2.80	12.	8.71	12.	11.	.028	674.	.780	.98	1.18	213.	21.
%RSD	378.	10.7	418.	7.79	7.88	12.6	6.90	723.	16.0	61.6	8.27	7.64

Elem	Mg2802	Mn2576	Mn2593	Mo2020	Ni2316	Pb2169	Sb2068	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**609.**	**555.**	**432.**	**-.981**	**5.87**	**2250.**	**116.**	**109.**	**-9.57**	**-2.22**	**-.779**	**222.**
Stddev	42.	40.	39.	.050	.87	399.	17.	20.	1.93	4.11	.217	34.
%RSD	6.96	7.17	8.91	5.09	14.9	17.7	14.9	18.6	20.2	185.	27.9	15.3

Int. Std.	Y_3600
Units	Cts/S
Avg	**127020.**
Stddev	4428.
%RSD	3.4861

Sample Name: dup381285 Acquired: 10/23/2013 22:13:20 Type: Unk
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2395
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.648**	**500.**	**6.79**	**690.**	**687.**	**.639**	**41000.**	**2.85**	**25.9**	**.467**	**11800.**	**1210.**
Stddev	1.58	12.	4.10	44.	45.	.102	2380.	.60	.6	.702	783.	71.
%RSD	243.	2.34	60.4	6.39	6.55	15.9	5.81	20.9	2.42	150.	6.62	5.88

Elem	Fe2599	Mg2802	Mn2593	Mo2020	Ni2316	Pb2169	Sb2068	Sb2175	Se1960	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1350.**	**2640.**	**2310.**	**-1.22**	**25.8**	**10600.**	**535.**	**515.**	**6.64**	**-11.9**	**-2.10**	**806.**
Stddev	75.	154.	148.	.40	.2	285.	14.	18.	4.50	3.2	.59	20.
%RSD	5.52	5.85	6.40	32.9	.851	2.69	2.63	3.51	67.8	26.5	28.1	2.45

Elem	Zn2138
Units	ug/L
Avg	**981.**
Stddev	27.
%RSD	2.71

Int. Std.	Y_3600
Units	Cts/S
Avg	**124370.**
Stddev	3330.
%RSD	2.6778

Sample Name: msw381285 Acquired: 10/23/2013 22:17:09 Type: Unk
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1937	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2395
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**23.3**	**1850.**	**910.**	**874.**	**1650.**	**21.8**	**40100.**	**20.5**	**193.**	**76.0**	**11600.**	**1530.**
Stddev	1.1	20.	5.	20.	36.	.3	284.	.4	2.	1.6	246.	8.
%RSD	4.56	1.10	.576	2.26	2.17	1.47	.708	2.02	.892	2.14	2.12	.549

Elem	Fe2599	Mg2802	Mn2593	Mo2020	Ni2316	Pb2169	Sb2068	Sb2175	Se1960	Se1960	Se2062	Tl2767
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1660.**	**2590.**	**2460.**	**-1.29**	**192.**	**10700.**	**749.**	**726.**	**908.**	**942.**	**917.**	**1010.**
Stddev	12.	28.	23.	.23	1.	50.	2.	3.	17.	2.	18.	36.
%RSD	.711	1.07	.917	17.4	.653	.469	.219	.383	1.87	.202	1.99	3.52

Elem	Tl1908	V_2924	Zn2062	Zn2138
Units	ug/L	ug/L	ug/L	ug/L
Avg	**559.**	**195.**	**970.**	**1170.**
Stddev	3.	1.	9.	9.
%RSD	.577	.409	.971	.798

Int. Std.	Y_3600
Units	Cts/S
Avg	**122610.**
Stddev	1249.
%RSD	1.0186

Sample Name: msdw381285 Acquired: 10/23/2013 22:20:54 Type: Unk
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1937	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2395
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**23.2**	**1750.**	**919.**	**887.**	**1670.**	**21.9**	**40900.**	**21.5**	**197.**	**76.5**	**12000.**	**1540.**
Stddev	1.3	86.	20.	21.	90.	1.2	2210.	.8	5.	2.1	613.	93.
%RSD	5.36	4.89	2.22	2.32	5.37	5.40	5.40	3.62	2.53	2.81	5.12	6.04

Elem	Fe2599	Mg2802	Mn2593	Mo2020	Ni2316	Pb2169	Sb2068	Sb2175	Se1960	Se1960	Se2062	Tl2767
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1680.**	**2640.**	**2500.**	**-1.18**	**198.**	**10900.**	**757.**	**732.**	**903.**	**949.**	**920.**	**866.**
Stddev	92.	137.	135.	.34	5.	241.	18.	18.	17.	24.	17.	125.
%RSD	5.46	5.19	5.43	28.5	2.52	2.22	2.38	2.44	1.86	2.48	1.89	14.4

Elem	Tl1908	V_2924	Zn2062	Zn2138
Units	ug/L	ug/L	ug/L	ug/L
Avg	**564.**	**193.**	**1030.**	**1210.**
Stddev	12.	6.	30.	33.
%RSD	2.06	2.97	2.86	2.77

Int. Std.	Y_3600
Units	Cts/S
Avg	**124160.**
Stddev	2906.
%RSD	2.3402

Sample Name: pdsw381285 Acquired: 10/23/2013 22:24:37 Type: Unk
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2265	Cd2288	Co2286	Co2388
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**113.**	**5350.**	**5010.**	**4310.**	**5360.**	**105.**	**439000.**	**87.4**	**105.**	**825.**	**985.**
Stddev	2.	140.	133.	33.	170.	2.	8150.	1.0	1.	5.	16.
%RSD	2.02	2.62	2.66	.761	3.18	1.89	1.86	1.16	.506	.564	1.61

Elem	Cr2677	Cr2835	Cu3247	Fe2395	Fe2599	Mg2025	Mn2593	Mo2045	Ni2216	Ni2316	Pb2169
Units	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**385.**	**421.**	**12100.**	**3160.**	**3240.**	**192000.**	**2930.**	**1610.**	**885.**	**822.**	**11700.**
Stddev	4.	5.	351.	67.	61.	1410.	84.	10.	5.	6.	60.
%RSD	1.13	1.12	2.89	2.13	1.88	.736	2.87	.608	.612	.698	.511

Elem	Sb2068	Sb2175	Se1960	Se2062	Tl2767	Tl1908	V_2908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1570.**	**1540.**	**4530.**	**4510.**	**4920.**	**2680.**	**1010.**	**986.**	**1530.**
Stddev	11.	7.	50.	35.	780.	27.	28.	7.	12.
%RSD	.715	.457	1.11	.773	15.9	.999	2.80	.712	.758

Int. Std.	Y_3600
Units	Cts/S
Avg	**115540.**
Stddev	760.
%RSD	.65753

Sample Name: ccv1 Acquired: 10/23/2013 22:28:35 Type: QC
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2343
Avg	**528.**	**4980.**	**4920.**	**5120.**	**5450.**	**478.**	**5200.**	**477.**	**4780.**	**4720.**	**5360.**	**5380.**
Stddev	5.	163.	149.	12.	213.	14.	152.	2.	149.	131.	196.	142.
%RSD	.987	3.28	3.03	.227	3.90	2.86	2.93	.460	3.13	2.78	3.66	2.63
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Fe2395	Fe2599	Mg2025	Mg2802	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se1960	Se2062	Tl2767
Avg	**4780.**	**4760.**	**5240.**	**4930.**	**4800.**	**5050.**	**5010.**	**5330.**	**5160.**	**5180.**	**5170.**	**5100.**
Stddev	141.	150.	35.	137.	150.	19.	20.	17.	19.	52.	25.	174.
%RSD	2.95	3.15	.668	2.77	3.12	.378	.394	.320	.370	1.01	.489	3.41
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Tl1908	V_2908	Zn2062
Avg	**4800.**	**4840.**	**4660.**
Stddev	25.	159.	18.
%RSD	.514	3.29	.391
Check ?	None	None	None
Value			
Range			

Sample Name: ccv1 Acquired: 10/23/2013 22:28:35 Type: QC
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_3600
Avg	**124470.**
Stddev	520.
%RSD	.41747

Sample Name: ccv2 Acquired: 10/23/2013 22:32:37 Type: QC
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4934	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**55.4**	**491.**	**528.**	**549.**	**49.9**	**522.**	**52.3**	**500.**	**531.**	**534.**	**467.**	**482.**
Stddev	.9	12.	6.	8.	.6	7.	.6	9.	3.	7.	5.	6.
%RSD	1.54	2.43	1.15	1.52	1.21	1.41	1.06	1.74	.619	1.36	1.07	1.28
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**479.**	**507.**	**508.**	**525.**	**515.**	**537.**	**513.**	**520.**	**482.**
Stddev	5.	8.	8.	3.	7.	5.	8.	3.	9.
%RSD	1.10	1.51	1.56	.494	1.43	.927	1.63	.554	1.88
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**123840.**
Stddev	208.
%RSD	.16792

Sample Name: ccb Acquired: 10/23/2013 22:36:09 Type: QC
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**2.04**	**-4.52**	**-.576**	**-.901**	**-.024**	**-5.19**	**-.609**	**.181**	**-.395**	**.036**	**-6.05**	**-8.91**
Stddev	1.38	.64	2.68	.188	.008	.10	.111	.080	.682	.284	.80	.05
%RSD	67.6	14.2	464.	20.9	35.3	1.88	18.2	44.0	173.	779.	13.3	.546
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**-.100**	**1.72**	**-1.12**	**-.727**	**-.415**	**-8.52**	**3.01**	**.335**	**-.640**
Stddev	.075	.46	.33	3.31	1.67	3.80	.92	.241	.057
%RSD	75.2	26.5	29.3	455.	403.	44.6	30.5	71.9	8.87
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**122980.**
Stddev	504.
%RSD	.41009

Sample Name: 381286 Acquired: 10/23/2013 22:40:05 Type: Unk
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2599
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.08**	**493.**	**-3.57**	**338.**	**332.**	**-.021**	**57200.**	**.409**	**6.50**	**1.25**	**58.3**	**550.**
Stddev	1.89	9.	3.76	10.	10.	.094	1490.	.242	.03	.54	1.3	20.
%RSD	174.	1.77	105.	2.85	2.95	456.	2.61	59.2	.412	43.1	2.21	3.59

Elem	Mg2025	Mg2802	Mn2576	Mn2593	Mo2020	Ni2316	Pb2169	Sb2068	Sb2175	Se1960	Tl1908	V_2924
Units	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**5000.**	**5860.**	**631.**	**506.**	**.033**	**2.70**	**2720.**	**314.**	**303.**	**6.95**	**-11.1**	**.447**
Stddev	78.	151.	16.	17.	.166	.17	37.	4.	5.	.89	1.9	.109
%RSD	1.56	2.58	2.57	3.29	501.	6.22	1.34	1.33	1.66	12.7	17.3	24.3

Elem	Zn2138
Units	ug/L
Avg	**240.**
Stddev	3.
%RSD	1.28

Int. Std.	Y_3600
Units	Cts/S
Avg	**118140.**
Stddev	832.
%RSD	.70450

Sample Name: 381287 Acquired: 10/23/2013 22:43:54 Type: Unk
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2599
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.048**	**444.**	**-15.9**	**497.**	**492.**	**.340**	**44100.**	**.414**	**15.5**	**.205**	**45.2**	**354.**
Stddev	1.41	3.	4.1	10.	10.	.076	972.	.244	.2	1.02	.6	5.
%RSD	2920.	.689	26.0	2.08	2.04	22.2	2.20	59.0	1.26	499.	1.27	1.51

Elem	Mg2025	Mg2802	Mn2593	Mo2020	Ni2316	Pb2169	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**4700.**	**5410.**	**1930.**	**-.853**	**25.1**	**894.**	**710.**	**7.81**	**4.92**	**-11.0**	**-2.04**	**159.**
Stddev	85.	110.	44.	.266	.8	11.	4.	1.03	2.07	1.1	.13	3.
%RSD	1.80	2.03	2.28	31.2	3.09	1.22	.605	13.1	42.1	9.87	6.24	1.92

Int. Std.	Y_3600
Units	Cts/S
Avg	**117520.**
Stddev	440.
%RSD	.37421

Sample Name: 381288 Acquired: 10/23/2013 22:47:50 Type: Unk
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2395
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.499	675.	-15.2	779.	779.	.463	32700.	-.632	-.411	1.40	8.30	1160.
Stddev	.786	75.	2.7	59.	57.	.042	2930.	.873	.463	1.37	1.82	113.
%RSD	157.	11.1	17.9	7.51	7.34	9.13	8.95	138.	113.	97.3	21.9	9.68

Elem	Fe2599	Mg2802	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	1290.	1860.	57.5	-.474	2.58	29.5	-2.74	1.57	-13.4	1.39	86.4
Stddev	103.	158.	4.3	.613	.21	1.9	1.98	5.31	1.7	.37	15.4
%RSD	7.99	8.50	7.39	129.	7.98	6.44	72.6	339.	12.6	26.4	17.8

Int. Std.	Y_3600
Units	Cts/S
Avg	121060.
Stddev	5782.
%RSD	4.7763

Sample Name: ccv1 Acquired: 10/23/2013 23:20:18 Type: QC
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2343
Avg	**537.**	**4830.**	**4860.**	**5160.**	**5390.**	**477.**	**5310.**	**485.**	**4690.**	**4570.**	**5160.**	**5490.**
Stddev	1.	120.	134.	33.	225.	12.	34.	5.	134.	101.	174.	111.
%RSD	.148	2.48	2.77	.640	4.17	2.53	.641	1.00	2.86	2.21	3.37	2.02
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Fe2395	Fe2599	Mg2025	Mg2802	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se1960	Se2062	Tl2767
Avg	**4780.**	**4700.**	**5370.**	**4780.**	**4650.**	**5120.**	**5090.**	**5430.**	**5250.**	**5210.**	**5200.**	**4870.**
Stddev	89.	86.	52.	120.	122.	33.	42.	47.	34.	7.	35.	310.
%RSD	1.85	1.83	.968	2.51	2.62	.649	.820	.866	.647	.136	.678	6.36
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Tl1908	V_2908	Zn2062
Avg	**4880.**	**4690.**	**4730.**
Stddev	29.	136.	33.
%RSD	.600	2.91	.691
Check ?	None	None	None
Value			
Range			

Sample Name: ccv1 Acquired: 10/23/2013 23:20:18 Type: QC
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_3600
Avg	**125050.**
Stddev	472.
%RSD	.37712

Sample Name: ccv2 Acquired: 10/23/2013 23:24:20 Type: QC
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**55.5**	**495.**	**531.**	**547.**	**48.1**	**541.**	**52.5**	**501.**	**540.**	**536.**	**461.**	**464.**
Stddev	1.5	11.	6.	9.	.8	8.	.5	9.	6.	9.	7.	8.
%RSD	2.66	2.26	1.15	1.60	1.57	1.42	.943	1.88	1.03	1.69	1.46	1.67
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**461.**	**508.**	**511.**	**533.**	**517.**	**540.**	**520.**	**524.**	**486.**
Stddev	9.	7.	9.	3.	7.	4.	5.	6.	9.
%RSD	1.89	1.34	1.73	.524	1.44	.751	1.05	1.19	1.90
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**124210.**
Stddev	819.
%RSD	.65962

Sample Name: ccb Acquired: 10/23/2013 23:27:52 Type: QC
Method: DOD Calibration 1(v1510) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	.668	-4.30	2.44	-.804	.081	7.25	-.397	-.005	-1.10	.033	-2.58	-7.99
Stddev	1.27	.59	2.30	.090	.035	.65	.234	.140	.98	.170	2.14	.12
%RSD	190.	13.8	94.2	11.2	43.2	8.98	58.9	2840.	89.5	516.	82.8	1.48
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	-.271	2.12	-.627	-.598	-.130	-11.3	2.24	.057	-.492
Stddev	.297	.20	.282	1.26	1.79	.3	2.12	.113	.147
%RSD	110.	9.37	45.0	211.	1380.	2.39	94.7	199.	29.8
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	123250.
Stddev	142.
%RSD	.11516

METALS
LOGBOOK
DOCUMENTS

MICP WATER QSM Analytical Run
99511 on 10/29/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	385574							MICP WATER QSM				
				ICV					0			
	385575							MICP WATER QSM				
				ICV					0			
	385576							MICP WATER QSM				
				ICB					0			
	385578							MICP WATER QSM				
				ICSA					0			
	385579							MICP WATER QSM				
				ICSAB					0			
	385580							MICP WATER QSM				
				CCV1					0			
	385581							MICP WATER QSM				
				CCV2					0			
	385582							MICP WATER QSM				
				CCB					0			
	383736							ICP TOTAL QSM				
				LCSW					46498			
	383735							ICP TOTAL QSM				
				MBW					46498			
	385583							MICP WATER QSM				
				CCV1					0			
	385584							MICP WATER QSM				
				CCV2					0			
	385585							MICP WATER QSM				
				CCB					0			
100700	381290		10/09/2013 0950			WESTON SOLUTIONS, INC.	CAMP DAWSON	ICP TOTAL QSM		GW	**4**	
		CDW-KD-35-SS01-02							46498			
	385586							ICP TOTAL QSM				
				L	381290				0			
	383737		10/09/2013 0950					ICP TOTAL QSM				
		CDW-KD-35-SS01-02		DUP	381290				46498			
	383738		10/09/2013 0950					ICP TOTAL QSM				
		CDW-KD-35-SS01-02		MSW	381290				46498			
	383739		10/09/2013 0950					ICP TOTAL QSM				
		CDW-KD-35-SS01-02		MSDW	383738				46498			
	385587							ICP TOTAL QSM				
				PDSW	381290				0			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP WATER QSM Analytical Run
99511 on 10/29/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
100700	381293		10/09/2013 1400		WESTON SOLUTIONS, INC.	CAMP DAWSON	ICP TOTAL QSM		GW	**4**	
		CDW-KD-AA-FB01-04						46498			
	385588						MICP WATER QSM				
				CCV1				0			
	385589						MICP WATER QSM				
				CCV2				0			
	385590						MICP WATER QSM				
				CCB				0			

23 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run
99556 on 10/29/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	385684							MICP SOIL QSM				
				ICV					0			
	385685							MICP SOIL QSM				
				ICV					0			
	385686							MICP SOIL QSM				
				ICB					0			
	385688							MICP SOIL QSM				
				ICSA					0			
	385689							MICP SOIL QSM				
				ICSAB					0			
	385690							MICP SOIL QSM				
				CCV1					0			
	385691							MICP SOIL QSM				
				CCV2					0			
	385692							MICP SOIL QSM				
				CCB					0			
	381577							ICP QSM				
				LCSS					46442			
	381576							ICP QSM				
				MBS					46442			
100700	381281		10/07/2013 1612			WESTON SOLUTIONS, INC.	CAMP DAWSON	ICP QSM		S	**4**	
		CDW-KD-03-SS01-00							46442			
100700	381282		10/08/2013 1130			WESTON SOLUTIONS, INC.	CAMP DAWSON	ICP QSM		S	**4**	
		CDW-KD-13-SS01-05		Designated MS/MSD					46442			
	385693							ICP QSM				
				L	381282				0			
	381578		10/08/2013 1130					ICP QSM				
		CDW-KD-13-SS01-05		DUP	381282				46442			
	381579		10/08/2013 1130					ICP QSM				
		CDW-KD-13-SS01-05		MSS	381282				46442			
	381580		10/08/2013 1130					ICP QSM				
		CDW-KD-13-SS01-05		MSDS	381579				46442			
	385694							ICP QSM				
				PDSS	381282				0			
	385695							MICP SOIL QSM				
				CCV1					0			
	385696							MICP SOIL QSM				
				CCV2					0			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP SOIL QSM Analytical Run
99556 on 10/29/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME		QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	385697							MICP SOIL QSM				
					CCB				0			
100700	381283		10/08/2013	1420		WESTON SOLUTIONS, INC.	CAMP DAWSON	ICP QSM		S	**4**	
		CDW-KD-16-SS01-00							46442			
100700	381284		10/08/2013	1600		WESTON SOLUTIONS, INC.	CAMP DAWSON	ICP QSM		S	**4**	
		CDW-KD-23-SS01-00							46442			
100700	381289		10/09/2013	1015		WESTON SOLUTIONS, INC.	CAMP DAWSON	ICP QSM		S	**4**	
		CDW-KD-35-SS01-00							46442			
100700	381291		10/09/2013	1210		WESTON SOLUTIONS, INC.	CAMP DAWSON	ICP QSM		S	**4**	
		CDW-KD-39-SS01-00							46442			
100700	381292		10/09/2013	1210		WESTON SOLUTIONS, INC.	CAMP DAWSON	ICP QSM		S	**4**	
		CDW-KD-39-SS01-01							46442			
100700	381294		10/10/2013	1130		WESTON SOLUTIONS, INC.	CAMP DAWSON	ICP QSM		S	**4**	
		CDW-KD-49-SS01-00							46442			
	385698							MICP SOIL QSM				
					CCV1				0			
	385699							MICP SOIL QSM				
					CCV2				0			
	385700							MICP SOIL QSM				
					CCB				0			

29 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Distribution: C:\LIMSREPS\ANALYTICALRUN.RPT

MICP QSM TCLP/HARDNESS Analytical Run
99645 on 10/31/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	388855							MICP QSM TCLP/HARDNESS				
				ICV					0			
	388856							MICP QSM TCLP/HARDNESS				
				ICV					0			
	388857							MICP QSM TCLP/HARDNESS				
				ICB					0			
	388859							MICP QSM TCLP/HARDNESS				
				ICSA					0			
	388860							MICP QSM TCLP/HARDNESS				
				ICSAB					0			
	388861							MICP QSM TCLP/HARDNESS				
				CCV1					0			
	388862							MICP QSM TCLP/HARDNESS				
				CCV2					0			
	388863							MICP QSM TCLP/HARDNESS				
				CCB					0			
	385766							ICP QSM TCLP				
				LCSW					46547			
	385765							ICP QSM TCLP				
				MBW					46547			
100700	381285		10/08/2013 1600			WESTON SOLUTIONS, INC.	CAMP DAWSON	ICP QSM TCLP		M	**4**	
		CDW-KD-23-SS01-00							46547			
	388864							ICP QSM TCLP				
				L	381285				0			
	385767		10/08/2013 1600					ICP QSM TCLP				
		CDW-KD-23-SS01-00		DUP	381285				46547			
	385768		10/08/2013 1600					ICP QSM TCLP				
		CDW-KD-23-SS01-00		MSW	381285				46547			
	385771		10/08/2013 1600					ICP QSM TCLP				
		CDW-KD-23-SS01-00		MSDW	385768				46547			
	388865							ICP QSM TCLP				
				PDSW	381285				0			
	388866							MICP QSM TCLP/HARDNESS				
				CCV1					0			
	388867							MICP QSM TCLP/HARDNESS				
				CCV2					0			
	388868							MICP QSM TCLP/HARDNESS				
				CCB					0			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP QSM TCLP/HARDNESS Analytical Run
99645 on 10/31/2013

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
100700	381286		10/08/2013 0910		WESTON SOLUTIONS, INC.	CAMP DAWSON	ICP QSM TCLP		M	**4**	
		CDW-KD-07-SS01-00						46547			
100700	381287		10/08/2013 1050		WESTON SOLUTIONS, INC.	CAMP DAWSON	ICP QSM TCLP		M	**4**	
		CDW-KD-12-SS02-00						46547			
100700	381288		10/08/2013 1600		WESTON SOLUTIONS, INC.	CAMP DAWSON	ICP QSM TCLP		M	**4**	
		CDW-KD-23-SS02-00						46547			
	388869						MICP QSM TCLP/HARDNESS				
				CCV1				0			
	388871						MICP QSM TCLP/HARDNESS				
				CCV2				0			
	388872						MICP QSM TCLP/HARDNESS				
				CCB				0			

25 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Distribution: C:\LIMSREPS\ANALYTICALRUN.RPT

TCLP/SPLP/ASTM Extraction Summary

Batch: 2375 **Date:** 10-17-13

Analyst (set up): [illegible] **Analyst (take down):**

Sample #	Parameter	Test			Vessel / ZHE	Buffer Determination			Sample wt.	**Free Liquids Present (Y/N)	Vol. Ext. Fluid	Initial pH	ZHE Initial Press	Time In	Date / Time Out	Ext. Time	End pH	ZHE End Press	Date / Time Filtered	Volume Filtered
	(M / SV / V / WC)	TCLP	SPLP	ASTM	#	Initial pH	End pH	*Ext. Fluid	(g)		(mL)		(psi)			(hrs)		(psi)		(mL)
BLK	M/SV	Y	—	—	206	—	4.93	1	10-17-13 ~~10.6~~	—	2000	4.89	—	1300	0700 / 10-18-13	18	4.89	—	10-18-13 / 0900	2000
378647	M/SV	X	—	—	T4	7.34	1.47	1	100	—	2000	4.84	—	1300	0700 / 10-18-13	18	6.10	—	10-18-13 / 0900	2000
381285	M	X	—	—	1G	6.72	1.32	1	100	—	2000	4.84	—	1300	0700 / 10-18-13	18	4.90	—	10-18-13 / 0900	2000
381286	M	X	—	—	11G	5.89	1.45	1	100	—	2000	4.89	—	1300	0700 / 10-18-13	18	4.82	—	10-18-13 / 0900	2000
381287	M	X	—	—	19G	5.09	1.48	1	100	—	2000	4.89	—	1300	0700 / 10-18-13	18	4.85	—	10-18-13 / 0900	2000
381288	M	X	—	—	5G	6.75	1.33	1	100	—	2000	4.83	—	1300	0700 / 10-18-13	18	4.74	—	10-18-13 / 0900	2000
382196	M	X	—	—	9G	6.63	3.12	1	100	—	2000	4.94	—	1300	0700 / 10-18-13	18	6.27	—	10-18-13 / 0900	2000
382314	M	X	—	—	14G	~~7.34~~	1.29	1	100	—	2000	4.88	✓	1300	0700 / 10-18-13	18	4.89	—	10-18-13 / 0900	2000
383062	M/SV	X	—	—	T3	9.02 10-17-13 6.67	1.29	1	100	—	2000	4.88	—	1300	0700 / 10-18-13	18	6.23	—	10-18-13 / 0900	2000
383064	M/SV	X	—	—	15G	7.82	3.14	1	100	—	2000	4.87	—	1300	0700 / 10-18-13	18	5.90	—	10-18-13 / 0900	2000
383001	M/SV	X	✓	✓	4G	7.10	1.34	1	100	—	2000	4.85	—	1300	0700 / 10-18-13	18	5.42	✓	10-18-13 / 0900	2000

*Extraction Fluid Used: 1 Ext. Fluid ID #: M11694 Ext. Fluid pH: 4.89 Ext. Start Temp (°C): 21°C

Ext. End Temp(°C): 21°C Filter Manufacturer: Env. Ex Filter Lot #: 5350401 Tumbler Unit #(s): 1

Balance: WX02200 pH Meter: Corning 450 Acceptable rotation rate: 30 ±2 rpm Verified Rotation rate: 31 rpm

1N HCL: M11327

M=Metals, SV=Semi Volatiles, V=Volatiles, WC=Wet Chemistry

% Solids Calculation Worksheet

Sample #	A Filter wt. (Tare weights (g))	B Filtrate Vessel wt. (Tare weights (g))	C Transfer Vessel wt. (Tare weights (g))	D Sample + Transfer Vessel (Transfer weights (g))	E Sample wt {D - C} (Transfer weights (g))	F Vessel wt. Post Transfer (Transfer weights (g))	G Residue wt. {F – C} (Separation weights (g))	H Total Waste Amount {E – G} (Separation weights (g))	I Filtrate Vessel + Filtrate (Separation weights (g))	J Liquid Phase of Sample {I – B} (% Solids Calculations)	K Solid Phase of Sample {H – J} (% Solids Calculations)	L. % Solids (**) (K/H*100) (% Solids Calculations)	M Waste + Filter (Dry) wt. (g) (% Solids Calculations)	% Solids (Dry) ({M – A}/H)*100 (% Solids Calculations)

(**) If Solids = <0.5%, treat filtrate as TCLP extract, if free liquid present use % Solids Calculation Worksheet

Reviewed By/Date: RS 10/23/13

PREP WORKSHEET
on 10/29/2013

Prep Batch **46,498** Date Prepped: 10/18/2013 Prepped By LJF

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	383735	MBW		ICP TOTAL QSM	LIQUID	50		50.0		
	383736	LCSW		ICP TOTAL QSM	LIQUID	50		50.0		
100700	381290			ICP TOTAL QSM	WATER	50		50.0	Y	
	381293			ICP TOTAL QSM	WATER	50		50.0	Y	
	383737	DUP	381290	ICP TOTAL QSM	WATER	50		50.0		
	383738	MSW	381290	ICP TOTAL QSM	WATER	50		50.0		
	383739	MSDW	383738	ICP TOTAL QSM	WATER	50		50.0		

Notes:

PREP WORKSHEET
on 10/29/2013

Prep Batch **46,442** Date Prepped: 10/21/2013 Prepped By LJF

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	381576	MBS		ICP QSM	SOLID	50	2.10			
	381577	LCSS		ICP QSM	SOLID	50	2.10			
100700	381281			ICP QSM	SOIL	50	2.04		Y	
	381282	*		ICP QSM	SOIL	50	2.02		Y	
	381283			ICP QSM	SOIL	50	2.01		Y	
	381284			ICP QSM	SOIL	50	2.01		Y	
	381289			ICP QSM	SOIL	50	2.08		Y	
	381291			ICP QSM	SOIL	50	1.98		Y	
	381292			ICP QSM	SOIL	50	1.99		Y	
	381294			ICP QSM	SOIL	50	1.97		Y	
	381578	DUP	381282	ICP QSM	SOIL	50	2.02			
	381579	MSS	381282	ICP QSM	SOIL	50	2.02			
	381580	MSDS	381579	ICP QSM	SOIL	50	2.02			

Notes:

PREP WORKSHEET
on 10/31/2013

Prep Batch **46,547** Date Prepped: 10/22/2013 Prepped By LJF

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	Partial List	Notes
	385765	MBW		ICP QSM TCLP	LIQUID	50		50.0		
	385766	LCSW		ICP QSM TCLP	LIQUID	50		50.0		
100700	381285			ICP QSM TCLP	TCLP	50		50.0	Y	
	381286			ICP QSM TCLP	TCLP	50		50.0	Y	
	381287			ICP QSM TCLP	TCLP	50		50.0	Y	
	381288			ICP QSM TCLP	TCLP	50		50.0	Y	
	385767	DUP	381285	ICP QSM TCLP	TCLP	50		50.0		
	385768	MSW	381285	ICP QSM TCLP	TCLP	50		50.0		
	385771	MSDW	385768	ICP QSM TCLP	TCLP	50		50.0		

Notes:

Metals Digestion Bench Sheet

(Prep Methods 3010, 3020, 3005, & 3050)

*Matrix: GW

3010= ICP Liquids
3020= GFAA Liquids
3005= Sb Liquids
3050= ICP/GFAA Solids
7060/7740= GFAA, As & Se Liquids

Prep Batch #:	46498
Prep Method:	3010
Analyst:	LJF
Date:	10/18/2013
Start Time:	11:00

Prep Analyst: LJF
Balance ID:

End Date: 10/18/2013
End Time: 14:00

Reagent:	Ref. #
Nitric Acid:	AB.577
Hydrochloric Acid:	AB.578
Hydrogen Peroxide:	

Digestion Tube Lot #: 1303205-3216-mb
Block Used: A
Cell Position for Temp. Check: F-4
Initial-DigestionTemp (ºC): 93
Final-Digestion Temp (ºC): 93

Sample ID			(Solids) Sample Weight (g)	(Liquids) Sample Volume (ml)	Final Volume (ml)
383735	(MB)			50.0	50
383736	(LCS)			50.0	50
381290				50.0	50
381293	**Comments:**			50.0	50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
383737	(DUP)			50.0	50
383738	(MS)	Parent Sample		50.0	50
383739	(MSD)	381290		50.0	50
Leave >>	(DUP) if applicable				50
blank	(MS)	Parent Sample			50
if N/A	(MSD)				50

MB=Method Blank, LCS=Laboratory Control Sample, DUP=Duplicate, MS=Matrix Spike & MSD=Matrix Spike Duplicate
*Matrix: Soil, Sludge, Waste, GW=Groundwater, WW=Wastewater, Tissue, TLCP, SPLP, ASTM or other.

MS/MSD Spike Amount (ml)	Spike Ref. #
0.2	M11681

LCS Spike Amount (ml)	Spike Ref. #
0.2	M11681

Reviewed By/Date:

Metals Digestion Bench Sheet

(Prep Methods 3010, 3020, 3005, & 3050)

*Matrix: SOIL

3010= ICP Liquids
3020= GFAA Liquids
3005= Sb Liquids
3050= ICP/GFAA Solids
7060/7740= GFAA, As & Se Liquids

Prep Batch #:	46442
Prep Method:	3050
Analyst:	LJF
Date:	10/21/2013
Start Time:	07:30

Reagent:	Ref. #
Nitric Acid:	AB.577
Hydrochloric Acid:	AB.576
Hydrogen Peroxide:	

Prep Analyst: KLD
Balance ID: SVXD2200

End Date: 10/21/2013
End Time: 09:30
Digestion Tube Lot #: 1303205-3216-MB
Block Used: A
Cell Position for Temp. Check: F-4
Initial-DigestionTemp (ºC): 93
Final-Digestion Temp (ºC): 93

Sample ID			(Solids) Sample Weight (g)	(Liquids) Sample Volume (ml)	Final Volume (ml)
381576	(MB)		2.10		50
381577	(LCS)		2.10		50
381281			2.04		50
381282	Comments:		2.02		50
381283			2.01		50
381284			2.01		50
381289			2.08		50
381291			1.98		50
381292			1.99		50
381294			1.97		50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
381578	(DUP)		2.02		50
381579	(MS)	Parent Sample	2.02		50
381580	(MSD)	381282	2.02		50
Leave >>	(DUP) if applicable				50
blank	(MS)	Parent Sample			50
if N/A	(MSD)				50

MB=Method Blank, LCS=Laboratory Control Sample, DUP=Duplicate, MS=Matrix Spike & MSD=Matrix Spike Duplicate
*Matrix: Soil, Sludge, Waste, GW=Groundwater, WW=Wastewater, Tissue, TLCP, SPLP, ASTM or other.

MS/MSD Spike Amount (ml)	Spike Ref. #
1	M11681

LCS Spike Amount (ml)	Spike Ref. #
1	M11681

Reviewed By/Date:_____

Metals Digestion Bench Sheet

(Prep Methods 3010, 3020, 3005, & 3050)

*Matrix: TCLP

3010= ICP Liquids
3020= GFAA Liquids
3005= Sb Liquids
3050= ICP/GFAA Solids
7060/7740= GFAA, As & Se Liquids

Prep Batch #:	46547
Prep Method:	3010
Analyst:	LJF
Date:	10/22/2013
Start Time:	13:30

Prep Analyst: LJF
Balance ID:

End Date: 10/22/2013
End Time: 18:30

Reagent:	Ref. #
Nitric Acid:	AB.577
Hydrochloric Acid:	AB.576
Hydrogen Peroxide:	

Digestion Tube Lot #: 1303205-3216-mb
Block Used: B
Cell Position for Temp. Check: F-6
Initial-DigestionTemp (ºC): 93
Final-Digestion Temp (ºC): 93

Sample ID			(Solids) Sample Weight (g)	(Liquids) Sample Volume (ml)	Final Volume (ml)
385765	(MB)			50.0	50
385766	(LCS)			50.0	50
381285				50.0	50
381286	Comments:			50.0	50
381287				50.0	50
381288				50.0	50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
385767	(DUP)			50.0	50
385768	(MS)	Parent Sample		50.0	50
385771	(MSD)	381285		50.0	50
Leave >>	(DUP) if applicable				50
blank	(MS)	Parent Sample			50
if N/A	(MSD)				50

MB=Method Blank, LCS=Laboratory Control Sample, DUP=Duplicate, MS=Matrix Spike & MSD=Matrix Spike Duplicate
*Matrix: Soil, Sludge, Waste, GW=Groundwater, WW=Wastewater, Tissue, TLCP, SPLP, ASTM or other.

MS/MSD Spike Amount (ml)	Spike Ref. #
0.2	M11681

LCS Spike Amount (ml)	Spike Ref. #
0.2	M11681

Reviewed By/Date:

iCAP 6000 / 6500 Data Review Checklist	Analysis Date: 10-21-13	Data File: DODresult5V142	Date of review: 10/23/13
Cal Std ID: mulleo3 LIMS #: 99511	Analyst: [illegible]	Reviewer: [illegible]	Approved? Yes No
Is Audit Trail turned on or Manual Manipulations addressed? Yes / No (If no, any manual manipulations must be initialed, dated, and reason(s) stated for change)			

QC Parameters : 6010 / 200.7 / QSM / Other	YES	NO	YES	NO	Comments:
1) Calibration linearity: r > 0.995 / r > 0.998	✓		✓		
2) ICV: (90-110% / 95-105%	✓		✓		
3) ICB: < 3X IDL / <LOD / <LOQ	✓		✓		
4) ICSA: < ABS LOD	✓		✓		
5) ICSAB: 80-120%	✓		✓		
6) MRL: 70-130% / 80-120% CCICV	✓		✓		
7) MDL Check: >LOD					
8) CCV1/CCB1 (CCV: 90-110%)	✓	✓	✓	✓	CCV1 fail OK No sample reported from Failing run
9) CCV2/CCB2 (CCB: < 3X IDL / <LOD / <LOQ)					
10) CCV3/CCB3					
11) CCV4/CCB4					
12) CCV5/CCB5					
13) CCV6/CCB6					

Preparation Batch Parameters	YES	NO	YES	NO
Prep Batch ID#: 96498 Dig. Meth. 3010	✓		✓	
LCS - generated limits or project specific limits	✓		✓	
MB - <LOD or ≤ ½ RL	✓		✓	
Spiked samples in batch:				
a) 381290 matrix = GW	✓		✓	
b)____ matrix = ____				
c)____ matrix = ____				
PDS: ±15% / 20% / 25% Sample#:____	a			
Prep Batch ID#:____ Dig. Meth.____				
LCS - generated limits or project specific limits				
MB - <LOD or ≤ ½ RL				
Spiked samples in batch:				
a)____ matrix = ____				
b)____ matrix = ____				
c)____ matrix = ____				
PDS: ±15% / 20% / 25% Sample#:____				
Prep Batch ID#:____ Dig. Meth.____				
LCS - generated limits or project specific limits				
MB - <LOD or ≤ ½ RL				
Spiked samples in batch:				
a)____ matrix = ____				
b)____ matrix = ____				
c)____ matrix = ____				
PDS: ±15% / 20% / 25% Sample#:____				
Prep Batch ID#:____ Dig. Meth.____				
LCS - generated limits or project specific limits				
MB - <LOD or ≤ ½ RL				
Spiked samples in batch:				
a)____ matrix = ____				
b)____ matrix = ____				
c)____ matrix = ____				
PDS: ±15% / 20% / 25% Sample#:____				

iCAP 6000 / 6500 Data Review Checklist MDS 10/29/13	Analysis Date: 10-21-13	Data File: 0029results U429	Date of review: 10/23/13
Cal Std ID: M11605 LIMS #: ~~10-21-13~~ 99556	Analyst: [illegible]	Reviewer: [illegible]	Approved? Yes No
Is Audit Trail turned on or Manual Manipulations addressed? Yes No (If no, any manual manipulations must be initialed, dated, and reason(s) stated for change)			

QC Parameters : 6010 / 200.7 / QSM / Other	YES	NO	YES	NO	Comments:
1) Calibration linearity: r ≥ 0.995 / r > 0.998	✓		✓		
2) ICV: 90-110% / 95-105%	✓		✓		
3) ICB: < 3X IDL / <LOD / <LOQ	✓		✓		
4) ICSA: < ABS LOD	✓		✓		
5) ICSAB: 80-120%	✓		✓		
6) MRL: 70-130% / 80-120% LLICV	✓		✓		
7) MDL Check: >LOD					
8) CCV1/CCB1 (CCV: 90-110%)	✓		✓		
9) CCV2/CCB2 (CCB: < 3X IDL / <LOD / <LOQ)					
10) CCV3/CCB3					
11) CCV4/CCB4					
12) CCV5/CCB5					
13) CCV6/CCB6					
Preparation Batch Parameters	**YES**	**NO**	**YES**	**NO**	
Prep Batch ID#: 46442 Dig. Meth. 3050	—		✓		
LCS - generated limits or project specific limits	—		✓		
MB - <LOD or ≤ ½ RL	✓		✓		
Spiked samples in batch:					
a) 381287 matrix = SO	✓	✓	✓	—	L fail Do MS, MSD fail
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#: a	✓	✓	✓	—	Fail "
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					

iCAP 6000 / 6500 Data Review Checklist	Analysis Date: 10-23-13	Data File: DoDresults	Date of review: 10/29/13
Cal Std ID: M11605 LIMS #: 99695	Analyst: [illegible]	Reviewer: [illegible]	Approved? Yes No

Is Audit Trail turned on or Manual Manipulations addressed? Yes / No (If no, any manual manipulations must be initialed, dated, and reason(s) stated for change)

QC Parameters : 6010 / 200.7 / QSM / Other	YES	NO	YES	NO	Comments:
1) Calibration linearity: r ≥ 0.995 / r > 0.998	✓		✓		
2) ICV: 90-110% / 95-105%	✓		✓		
3) ICB: < 3X IDL / <LOD / <LOQ	✓		✓		
4) ICSA: < ABS LOD	✓		✓		
5) ICSAB: 80-120%	✓		✓		
6) MRL: 70-130% / 80-120% ICVLL	✓		✓		
7) MDL Check: >LOD					
8) CCV1/CCB1 (CCV: 90-110%)	✓		✓		
9) CCV2/CCB2 (CCB: < 3X IDL / <LOD / <LOQ)					
10) CCV3/CCB3					
11) CCV4/CCB4					
12) CCV5/CCB5					
13) CCV6/CCB6					
Preparation Batch Parameters	**YES**	**NO**	**YES**	**NO**	
Prep Batch ID#: 46547 Dig. Meth. 3010	✓		✓		
LCS - generated limits or project specific limits	✓		✓		
MB - <LOD or ≤ ½ RL	✓		✓		
Spiked samples in batch:					
a) 381285 matrix = M	✓	✓	✓	✓	MS, MSD fail
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#: a					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					
Prep Batch ID#: Dig. Meth.					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a) matrix =					
b) matrix =					
c) matrix =					
PDS: ±15% / 20% / 25% Sample#:					

CT Laboratories Instrument Run Log

Instrument ID: ICP 6500

Date	Time Start/End	Analyst	Analytes	LIMS run or Samples Analyzed	Sequence ID	Cal Std ID	Neb Pressure	Comments
9-25-13	0912 / 1542	[illegible]	As+Pb DOD cal	98430, 98401, 98402, 98435	AsPb 092513	M11605	140	V76
9-26-13	0942 / 0039	[illegible]	As+PP DOD cal	98500, 98499, 98477, 98478, 98484, 98480, 98479	D092613	M11605	140	V1454, V1456
9-27-13	0945 / 0054	[illegible]	DOD cal As+P	98572, 98542, 98520, 98553, 98558, 98571, 98573, 98540	D092713	M11605	140	V1459, V1457, V1458, V1460
9-30-13	0827 / 2102	[illegible]	DOD cal	98550, 51, 98607, 98605	D093013	M11605	130	V1461
10-1-13	1332 / 2342	[illegible]	DOD cal	98703, 98681	D093013	M11605	130	V1462, V1463, V1466
10-2-13	1508 / 0407	[illegible]	DOD cal	98710, 98718, 98726, 98771, 70, 98775	D100213	M11605	130	V1468
10-3-13	1329 / 0050	[illegible]	DOD cal	98793, 98817, 98816, 98813, 98811, 98815	D100313	M11605	140	V1469
10-7-13	0732 / 1118	[illegible]	DOD cal	98811, 98721, 98703, 98688, 98668, 98695	D100313	M11605	140	V1470, V1471
10-8-13	0808 / 0411	[illegible]	DOD cal	98710, 98687, 98683, 98676, 73, 98793, 98772, 98813, 98869, 98871	D100813	M11605	140	V1472, V1474, V1475, V1476
10-9-13	1010 / 0207	[illegible]	DOD cal	99036, 98990, 99055, 99058, 99036, 98993, 98996, 99056, 99061, 99058, 99055	D100913	M11605	150	V1477, V1478
10-10-13	0721 / 0357	[illegible]	DOD cal	99075, 99021, 99035, 99073, 99052, 99029, 98971, 99173, 99103, 98978, 99099, 99185, 98793, 99125, 99097, 98977, 98983, 98912	D101013	M11605	150	V1479, V1480, V1481, V1482
10-11-13	0734 / 1935	[illegible]	DOD cal	99041, 99101, 99096, 98993, 99207, 99058, 99196, 99061, 99154, 99174	D101113	M11605	150	V1483, V1484, V1485
10-15-13	1007 / 1945	[illegible]	DOD cal	99177, 99178, 99175, 99103, 99089, 99289, 99175, 99235, 32, 31, 33, 99190, 99281, 99061, 99058, 99190	D101513	M11605	150	V1486, V1487, V1488
10-16-13	1315 / 2000	[illegible]	DOD cal	99228, 99190, 99058, 99061	D101613	M11605	150	V1490
10-17-13	0852 / 1300	[illegible]	DOD cal	99103, 99190, 99192, 99296, 99228, 99097, 99217, 99426, 99288	D101713	M11605	150	V1491
10-18-13	189 / 0355	[illegible]	DOD cal	99477, 99488, 99475, 99482, 99480, 99492, 99465, 99467, 99463, 99461	D101813	M11605	150	V1492, V1493, V1494
10-21-13	1356 / 0635	[illegible]	DOD cal	99515, 99553, 99516, 99511, 99510, 99516, 99509, 99501, 99505, 99504, 99508	D102113	M11605	140	V1495
10-22-13	1025 / 0251	[illegible]	DOD cal	99588, 99566, 99567, 99575, 99551, 99516, 99467, 99463, 99465, 99466	D102213	M11605	140	V1497, V1498, V1499, V1500, V1501, V1509
10-23-13	1505 / 0642	[illegible]	DOD cal	99508, 99646, 99634, 99636, 99638, 99640, 99641, 42, 43, 44, 45	D102313	M11605	140	V1502, V1503, V1510, V1512, V1513
10-24-13	13 /	[illegible]	DOD cal	# 10-29-13			140	
10-25-13	1241 / 1825	[illegible]	DOD cal	99608, 99672	D0226 13	M11605	120	V1506
10-28-13	0745 / 1550	[illegible]	DOD cal	99672, 99693, 99643, 99508, 99637, 99697, 99695, 99641, 99632, 99636	D0288 13	M11605	120	V15
10-30-13	1039 / 0156	[illegible]	DOD cal	99644, 99645, 99609, 99650	D103013	M11605	120	V
10-31-13	/	[illegible]	DOD cal	99654, 99656	D10313	M11605	120	

Type	Date/Time	Message	User name	Application	Sequence Name
	10/21/2013 13:53:23	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 13:55:21	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 13:55:38	Autosampler Run Started	NAH	Analyst	
	10/21/2013 13:55:38	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 13:56:02	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 13:59:50	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 14:03:40	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 14:07:30	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 14:11:21	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 14:15:12	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 14:17:33	Closing will close the method and all associated samples.	NAH	Analyst	
	10/21/2013 14:19:02	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 14:22:50	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 14:26:34	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 14:30:11	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 14:33:32	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 14:37:42	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 14:41:50	Running CalibStd-100000 (13)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 14:45:48	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 14:49:59	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 14:54:16	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 14:58:08	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 15:01:55	Running ICVLL (25)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 15:05:43	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 15:09:34	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 15:13:24	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 15:17:19	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 15:21:31	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 15:25:46	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 15:29:35	Running 383412 (1)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 15:33:36	Running 383413 (2)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 15:37:33	Running 383414 (3)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 15:41:32	Running 383415 (4)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 15:45:32	Running 383416 (5)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 15:49:32	Running 383417 (6)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 15:53:33	Running 383418 (7)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 15:57:33	Running 383419 (8)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 15:58:49	Closing will close the method and all associated samples.	NAH	Analyst	
	10/21/2013 16:01:33	Running 383420 (9)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 16:05:34	Running msw383420 (10)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 16:09:13	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 16:13:11	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 16:16:40	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 16:20:33	Running msdw383420 (11)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 16:24:13	Running 383747 (12)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 16:28:17	Running 383748 (13)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 16:32:19	Running 383749 (14)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 16:36:21	Running lcsw46502 (15)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 16:40:15	Running mbw46502 (16)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 16:44:06	Running 378906 (17)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 16:47:56	Running l378906 (18)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	10/21/2013 16:51:35	Running dup378906 (19)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 16:55:26	Running mss378906 (20)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 16:59:10	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 17:03:04	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 17:06:33	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 17:10:26	Running msds378906 (21)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 17:14:12	Running pdss378906 (22)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 17:17:59	Running 378922 (23)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 17:22:04	Running 378934 (24)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 17:26:09	Running 380177 (25)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 17:30:17	Running 381403 (26)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 17:34:12	Running 381405 (27)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 17:38:08	Running 382334 (28)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 17:42:11	Running 382337 (29)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 17:46:17	Running 382339 (30)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 17:50:25	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 17:54:20	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 17:57:50	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 18:01:43	Running l382339 (31)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 18:05:29	Running dup382339 (32)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 18:09:38	Running msw382339 (33)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 18:13:26	Running msdw382339 (34)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 18:17:14	Running pdsw382339 (35)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 18:20:56	Running 382341 (36)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 18:24:54	Running l382341 (37)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 18:28:41	Running dup382341 (38)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 18:32:39	Running msw382341 (39)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 18:36:26	Running msdw382341 (40)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 18:40:13	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 18:44:08	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 18:47:36	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 18:51:29	Running pdsw382341 (41)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 18:55:05	Running 382343 (42)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 18:59:12	Running 382345 (43)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 19:03:10	Running 383180 (44)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 19:07:11	Running 383182 (45)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 19:11:18	Running 383184 (46)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 19:15:16	Running 383186 (47)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 19:19:12	Running 383726lcsw 46496 (48)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 19:23:03	Running 383725mbw 46496 (49)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 19:26:53	Running 378552 (50)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 19:31:05	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 19:35:02	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 19:38:32	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 19:42:14	Running l378552 (51)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 19:46:18	Running dup378552 (52)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 19:50:30	Running msw378552 (53)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 19:54:26	Running msdw378552 (54)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 19:58:23	Running pdsw378552 (55)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 20:02:03	Running 378555 (56)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 20:06:15	Running 378556 (57)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	10/21/2013 20:10:27	Running 378557 (58)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 20:14:39	Running 383711lcsw 46493 (59)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 20:18:32	Running 383710mbw 46493 (60)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 20:22:23	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 20:26:12	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 20:29:42	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 20:33:35	Running 377744 (61)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 20:37:42	Running l377744 (62)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 20:41:46	Running dup377744 (63)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 20:45:51	Running msw377744 (64)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 20:49:48	Running msdw377744 (65)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 20:53:45	Running pdsw377744 (66)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 20:57:25	Running 377745 (67)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 21:01:34	Running 383716lcsw 46494 (68)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 21:05:29	Running 383715mbw 46494 (69)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 21:09:20	Running 377803 (70)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 21:13:31	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 21:17:25	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 21:20:54	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 21:24:48	Running 377804 (71)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 21:29:00	Running 377805 (72)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 21:33:11	Running l377805 (73)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 21:37:16	Running dup377805 (74)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 21:41:28	Running msw377805 (75)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 21:45:28	Running msdw377805 (76)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 21:49:30	Running pdsw377805 (77)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 21:53:11	Running 377806 (78)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 21:57:25	Running 377807 (79)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 22:01:37	Running 377808 (80)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 22:05:40	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 22:09:40	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 22:13:10	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 22:17:04	Running 377809 (81)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 22:21:12	Running 377810 (82)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 22:25:22	Running 377811 (83)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 22:29:33	Running 377812 (84)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 22:33:40	Running 377813 (85)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 22:37:41	Running 377814 (86)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 22:41:46	Running 377815 (87)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 22:45:53	Running 377816 (88)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 22:50:02	Running 386706lcsw 46492 (89)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 22:53:55	Running 386705mbw 46492 (90)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 22:57:47	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 23:01:40	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 23:05:10	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 23:09:05	Running 375767 (91)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 23:13:18	Running 375768 (92)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 23:17:31	Running 375769 (93)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 23:21:45	Running l375769 (94)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 23:25:49	Running dup375769 (95)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 23:30:02	Running msw375769 (96)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	10/21/2013 23:34:01	Running msdw375769 (97)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 23:38:00	Running pdsw375769 (98)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 23:41:42	Running 375770 (99)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 23:45:56	Running 375807 (100)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 23:50:10	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 23:54:00	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	10/21/2013 23:57:28	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 00:01:23	Running lcsw46495 (101)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 00:05:08	Running mbw46495 (102)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 00:09:02	Running 380365 (103)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 00:13:04	Running l380365 (104)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 00:17:16	Running dup380365 (105)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 00:21:17	Running msw380365 (106)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 00:25:18	Running msdw380365 (107)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 00:29:15	Running pdsw380365 (108)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 00:33:09	Running lcsw46498 (109)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 00:36:52	Running mbw46498 (110)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 00:40:44	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 00:44:31	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 00:48:01	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 00:51:55	Running 381290 (111)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 00:55:48	Running l381290 (112)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 00:59:40	Running dup381290 (113)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 01:03:32	Running msw381290 (114)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 01:07:16	Running msdw381290 (115)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 01:10:51	Running pdsw381290 (116)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 01:14:36	Running 381293 (117)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 01:18:28	Running lcsw46497 (118)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 01:22:11	Running mbw46497 (119)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 01:26:04	Running 381267 (120)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 01:30:17	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 01:34:07	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 01:37:37	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 01:41:32	Running l381267 (121)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 01:45:38	Running dup381267 (122)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 01:49:51	Running msw381267 (123)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 01:53:57	Running msdw381267 (124)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 01:58:03	Running pdsw381267 (125)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 02:01:46	Running 381268 (126)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 02:06:00	Running 381269 (127)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 02:10:14	Running 381271 (128)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 02:14:27	Running lcss46436 (129)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 02:18:07	Running mbs46436 (130)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 02:21:59	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 02:25:58	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 02:29:33	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 02:33:28	Running 377749 (131)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 02:37:23	Running 377750 (132)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 02:41:16	Running 377752 (133)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 02:45:12	Running 377753 (134)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 02:49:09	Running 377754 (135)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	10/22/2013 02:53:03	Running 380174 (136)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 02:56:55	Running l380174 (137)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 03:00:52	Running dup380174 (138)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 03:04:44	Running mss380174 (139)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 03:08:32	Running msds380174 (140)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 03:12:21	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 03:16:17	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 03:19:49	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 03:23:44	Running pdsw380174 (141)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 03:27:30	Running lcss46442 (142)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 03:30:57	Running mbs46442 (143)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 03:34:50	Running 381281 (144)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 03:38:35	Running 381282 (145)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 03:42:20	Running l381282 (146)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 03:46:12	Running dup381282 (147)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 03:49:58	Running mss381282 (148)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 03:53:56	Running msds381282 (149)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 03:57:55	Running pdss381282 (150)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 04:01:48	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 04:05:47	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 04:09:18	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 04:13:14	Running 381283 (151)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 04:16:59	Running 381284 (152)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 04:20:44	Running 381289 (153)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 04:24:32	Running 381291 (154)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 04:28:28	Running 381292 (155)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 04:32:23	Running 381294 (156)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 04:36:11	Running lcss46440 (157)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 04:39:51	Running mbs46440 (158)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 04:43:44	Running 378883 (159)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 04:47:31	Running 378884 (160)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 04:51:16	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 04:55:15	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 04:58:45	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 05:02:40	Running 378885 (161)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 05:06:15	Running 378886 (162)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 05:10:09	Running 378887 (163)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 05:14:07	Running 378890 (164)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 05:17:56	Running 378891 (165)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 05:21:55	Running 378892 (166)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 05:25:58	Running 378893 (167)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 05:29:58	Running 379477 (168)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 05:33:38	Running 379478 (169)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 05:37:28	Running 379479 (170)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 05:41:19	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 05:45:18	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 05:48:49	Running ccb (30)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 05:52:45	Running l379479 (171)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 05:56:29	Running dup379479 (172)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 06:00:11	Running mss379479 (173)	NAH	Analyst	S_DOD Calibration 1
	10/22/2013 06:04:03	Running msds379479 (174)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	10/23/2013 14:59:53	Plasma off	NAH	iTEVA Control Center	
	10/23/2013 14:59:54	Plasma extinguished successfully	NAH	Analyst	
	10/23/2013 15:01:00	Plasma On	NAH	iTEVA Control Center	
	10/23/2013 15:01:05	Plasma ignition successful	NAH	Analyst	
	10/23/2013 15:01:52	D33534 - Debug:Wavelength check : x = 1.718, y =0.609	NAH	Analyst	
	10/23/2013 15:05:05	Sequence Started	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 15:05:05	Autosampler Run Started	NAH	Analyst	
	10/23/2013 15:05:28	Running Blank (1)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 15:09:18	Running CalibStd=0.25 (2)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 15:13:10	Running CalibStd=0.5 (3)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 15:17:03	Running CalibStd=1 (4)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 15:21:05	Running CalibStd=5 (5)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 15:24:58	Running CalibStd=10 (6)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 15:28:57	Running CalibStd=20 (7)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 15:32:48	Running CalibStd=50 (8)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 15:37:02	Running CalibStd=100 (9)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 15:40:46	Running CalibStd=1000 (10)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 15:42:47	Closing will close the method and all associated samples.	NAH	Analyst	
	10/23/2013 15:44:16	Running CalibStd=10000 (11)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 15:47:58	Running CalibStd-100k (12)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 15:52:08	Running CalibStd-100000 (13)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 15:52:15	Closing will close the method and all associated samples.	NAH	Analyst	
	10/23/2013 15:56:11	Running CalibStd=500000 (14)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 16:00:15	Running CalibStd-1000k (15)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 16:04:31	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 16:08:25	Running icv (16)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 16:12:17	Running ICVLL (25)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 16:16:09	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 16:20:01	Running icb (17)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 16:23:55	Running MRL (24)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 16:27:46	Running icsa (20)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 16:31:51	Running icsab (21)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 16:35:37	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 16:39:28	Running 378552 (1)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 16:43:40	Running 378555 (2)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 16:47:51	Running 378556 (3)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 16:52:04	Running 378557 (4)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 16:56:18	Running lcsw46548 (5)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 17:00:03	Running mbw46548 (6)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 17:03:55	Running 383062 (7)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 17:08:07	Running l383062 (8)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 17:12:04	Running dup383062 (9)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 17:16:15	Running msw383062 (10)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 17:20:20	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 17:24:19	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 17:27:51	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 17:31:48	Running msdw383062 (11)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 17:35:54	Running pdsw383062 (12)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 17:39:54	Running lcsw46549 (13)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 17:43:38	Running mbw46549 (14)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 17:47:31	Running 381354 (15)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	10/23/2013 17:51:31	Running l381354 (16)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 17:55:36	Running dup381354 (17)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 17:59:34	Running mss381354 (18)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 18:03:25	Running msds381354 (19)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 18:07:15	Running pdss381354 (20)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 18:11:14	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 18:15:14	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 18:18:46	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 18:22:41	Running 381358 (21)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 18:26:39	Running 381360 (22)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 18:30:40	Running 381362 (23)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 18:34:41	Running lcsw46552 (24)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 18:38:27	Running mbw46552 (25)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 18:42:22	Running 381357 (26)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 18:46:23	Running l381357 (27)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 18:50:31	Running dup381357 (28)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 18:54:36	Running msw381357 (29)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 18:58:32	Running msdw381357 (30)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 19:02:30	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 19:06:29	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 19:10:01	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 19:13:57	Running pdsw381357 (31)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 19:18:00	Running 381359 (32)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 19:22:01	Running 381361 (33)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 19:26:06	Running 381363 (34)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 19:30:09	Running lcsw46550 (35)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 19:34:06	Running mbww46550 (36)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 19:37:59	Running 382400 (37)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 19:42:00	Running 382401 (38)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 19:46:03	Running 382402 (39)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 19:50:06	Running 382403 (40)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 19:54:16	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 19:58:16	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 20:01:48	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 20:05:43	Running l382403 (41)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 20:09:57	Running dup382403 (42)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 20:14:09	Running msw382403 (43)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 20:18:02	Running msdw382403 (44)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 20:21:56	Running pdsw382403 (45)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 20:25:56	Running 382404 (46)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 20:30:07	Running 382405 (47)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 20:34:09	Running 382406 (48)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 20:38:09	Running 382407 (49)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 20:42:22	Running 382408 (50)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 20:46:31	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 20:50:31	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 20:54:04	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 20:57:59	Running 382409 (51)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 21:02:07	Running 382410 (52)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 21:06:09	Running 382411 (53)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 21:10:12	Running 382412 (54)	NAH	Analyst	S_DOD Calibration 1

Type	Date/Time	Message	User name	Application	Sequence Name
	10/23/2013 21:14:16	Running lcsw46546 (55)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 21:18:01	Running mbw46546 (56)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 21:21:57	Running 378647 (57)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 21:26:08	Running l378647 (58)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 21:30:03	Running dup378647 (59)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 21:34:15	Running msw378647 (60)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 21:38:18	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 21:42:18	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 21:45:38	Running ccb (19)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 21:49:34	Running msdw378647 (61)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 21:53:40	Running pdsw378647 (62)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 21:57:53	Running lcsw46547 (63)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 22:01:38	Running mbw46547 (64)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 22:05:32	Running 381285 (65)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 22:09:22	Running l381285 (66)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 22:13:20	Running dup381285 (67)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 22:17:09	Running msw381285 (68)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 22:20:54	Running msdw381285 (69)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 22:24:37	Running pdsw381285 (70)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 22:28:35	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 22:32:37	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 22:36:09	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 22:40:05	Running 381286 (71)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 22:43:54	Running 381287 (72)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 22:47:50	Running 381288 (73)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 22:51:56	Running lcss46537 (74)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 22:55:40	Running mbs46537 (75)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 22:59:34	Running 374532 (76)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 23:03:43	Running l374532 (77)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 23:07:47	Running dup374532 (78)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 23:11:55	Running mss374532 (79)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 23:16:07	Running msds374532 (80)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 23:20:18	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 23:24:20	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 23:27:52	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 23:31:47	Running pdss374532 (81)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 23:35:59	Running 374540 (82)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 23:40:08	Running 374541 (83)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 23:44:16	Running lcsw46551 (84)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 23:48:14	Running mbw46551 (85)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 23:52:08	Running 381055 (86)	NAH	Analyst	S_DOD Calibration 1
	10/23/2013 23:56:13	Running l381055 (87)	NAH	Analyst	S_DOD Calibration 1
	10/24/2013 00:00:20	Running dup381055 (88)	NAH	Analyst	S_DOD Calibration 1
	10/24/2013 00:04:24	Running msw381055 (89)	NAH	Analyst	S_DOD Calibration 1
	10/24/2013 00:08:26	Running msdw381055 (90)	NAH	Analyst	S_DOD Calibration 1
	10/24/2013 00:12:20	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration 1
	10/24/2013 00:16:21	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration 1
	10/24/2013 00:19:54	Running ccb (27)	NAH	Analyst	S_DOD Calibration 1
	10/24/2013 00:23:50	Running pdsw381055 (91)	NAH	Analyst	S_DOD Calibration 1
	10/24/2013 00:27:55	Running 381142 (92)	NAH	Analyst	S_DOD Calibration 1
	10/24/2013 00:32:04	Running lcss46536 (93)	NAH	Analyst	S_DOD Calibration 1

SPEX certiprep Lot#18-131ASY ex. 8/30/14

SPEX certiprep Lot# 19-01PBY ex. 8/30/14

luid#1: Fill a 20L carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:565) and 128.6mL 10N NaOH (#M11507). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05

ngnate soln: 50g potassium permanganate (#M11285) dissolve into 1,000mL of D.I. H_2O.

Spex Certiprep Lot#18-131ASY Exp: 09/30/14

Spex Certiprep Lot#19-01PBY Exp: 09/30/14

1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

Std: 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

3.0ml of 100ug/L Hg (#M 11699) into 100ml = 3.0ug/L Hg

1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

0.2ml of 100ug/L Hg (#M 11699) into 100ml = 0.2ug/L Hg

nt: "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

agent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11558) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

: 50g potassium persulfate (#M10573) dissolve into 1,000mL of D.I. H_2O.

Sulfate Reagent: Dissolve into 600g NaCl (#M9574) and 600g Exp: 03/14/14 Hydroxylamine Sulfate (#M11376) in 500mL Milli-Q H_2O

#M11707 09/23/13 15F AS 1000mg/L spex certiprep Lot# 18-131ASY Exp: 09/30/14

#M11708 09/23/13 15F Pb 1000mg/L spex certiprep Lot# 19-01PBY Exp: 09/30/14

#M11709 10/02/13 13F Potassium permanganate soln: 50g potassium permanganate (#M11285) dissolve into 1,000mL of D.I. H_2O. Exp: 04/02/14

#M11710 10/08/13 15F Stannous Chloride (Macron) - Lot. NO. 0000052471

#M11711 10/10/13 15F TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:565) and 128.6mL 10N NaOH (#M11507) Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05 Exp: 10/10/14

#M11712 10/10/13 15F TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:565) and 128.6mL 10N NaOH (#M11507) Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05 Exp: 10/10/14

#M11713 10/14/13 15F Potassium permanganate soln: 50g potassium permanganate (#M11285) dissolve into 1,000mL of D.I. H_2O. Exp: 04/14/14

#M11707 10/14/13 15F NaCl Hydroxylamine Sulfate Reagent: Dissolve into 600g NaCl (#M9574) and 600g hydroxylamine Sulfate (#M11376) in 500mL Milli-Q H_2O. Exp: 04/14/14

#M11708 10/14/13 15F

Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11709) into 100ml = 3.0ug/L Hg
Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11709) into 100ml = 0.2ug/L Hg
Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11558) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11692 09/04/13 As 1000mg/L SPEX certiprep Lot#18-131ASY ex. 8/30/14
MAS

#M11693 09/04/13 Pb 1000mg/L SPEX Certiprep Lot# 19-01PBY ex. 8/30/14
MAS

#M11694 09/05/13 I5F TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL
Exp: 09/05/14 Glacial Acetic Acid (AB: 565) and ~~14~~ 8.6mL 10N NaOH
(#M11567). Dilute to 20L with D.I. H_2O and ambient
pH = 4.93 ± 0.05

#M11695 09/05/13 I5F Potassium permanganate soln: 50g potassium permanganate (#M11285)
Exp: 03/05/14 dissolve into 1,000mL of D.I. H_2O.

#M11696 09/12/13 I5F AS 1000mg/L SPEX Certiprep Lot#18-131ASY Exp: 09/30/14

#M11697 09/12/13 I5F Pb 1000mg/L SPEX Certiprep Lot#19-01PBY Exp: 09/30/14

#M11698 09/17/13 I5F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11699 09/17/13 I5F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11700 09/17/13 I5F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11699) into 100ml = 3.0ug/L Hg
#M11701 09/17/13 I5F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11702 09/17/13 I5F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11699) into 100ml = 0.2ug/L Hg
#M11703 09/17/13 I5F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11704 09/17/13 I5F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11558) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11705 09/18/13 I5F Potassium persulfate: 50g potassium persulfate (#M10573) dissolve into 1,000mL of
Exp: 03/18/14 D.I. H_2O.

#M11706 09/19/13 I5F NaCl Hydroxylamine Sulfate Reagent: Dissolve into 60g NaCl (#M9574) and 60g
Exp: 03/19/14 Hydroxylamine Sulfate (#M11336) in 500mL milli-Q H_2O.

#M11707 09/23/13 I5F AS 1000mg/L spex certiprep Lot# 18-131ASY

#M11708 09/23/13 I5F Pb 1000mg/L spex certiprep Lot# 19-01PBY

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#M11677 8-20-13 As 1000mg/L Spex Certiprep lot # 18-131AS ex 8/30/14

#M11678 8-20-13 Pb 1000 mg/L Spex Certiprep lot# 19-01PB ex. 8/30/14

#M11679 8-20-13 S 10,000 mg/L SPC Science lot# S13072402L 02/5/15

#M11680 08/22/13 SF (Fisher) Hydroxylamine Sulfate lot#127466 Exp: 08/22/14

#M11681 8-22-13 Spex Certiprep lot# 4-20NY ex 8/14 (Custom Std. Stock)

#M11682 8-22-13 CPI Pb, 10,000 mg/L lot# 11J007 ex 2/15.

#M11683 08/22/13 SF TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H2O. Add 114mL Glacial Acetic Acid (AB. 565) and 128.6mL 10N NaOH (#M110507). Dilute to 20L with D.I. H2O and mix. pH=4.93±0.0
Exp: 08/22/14

#M11684 08/22/13 SF TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H2O. Add 114mL Glacial Acetic Acid (AB. 565) and 128.6mL 10N NaOH (#M110507). Dilute to 20L with D.I. H2O and mix. pH=4.95±0.05
Exp: 08/22/14

et 10mls
WI DI H2O

~~30~~ 8-19-13
pipet 50mls
tank WI DI H2O.

2/15

2/15

2/15

2/15

anate (#M11285)
f D.I. H2O.

(#M11493) and
M113376) in 500ml

#M11685 08/29/13 SF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11686 08/29/13 SF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11687 08/29/13 SF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M11686) into 100ml = 3.0ug/L Hg

#M11688 08/29/13 SF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11689 08/29/13 SF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M11686) into 100ml = 0.2ug/L Hg

#M11690 08/29/13 SF — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11691 08/29/13 SF — Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11558) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11618 8-13-13 MRL/ICV LL into 1000 ml vol flask pipet the
master standard following mg >

.5% HCl, HNO3

Bring up to Mark
with DI H2O.

ex 1/2/13

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	20	M11170	1000	1
Al	400	M11537	10000	2
Ba	10	M11052	1000	0.5
Be	4	M11239	1000	0.2
Cd	5	M11242	1000	0.25
Co	10	M11355	1000	0.5
Cr	10	M11053	10000	0.05
Cu	10	M11051	10000	0.05
Mg	500	M11536	10000	2.5
Mn	10	M11054	10000	0.05
Mo	10	M11357	1000	0.5
Ni	10	M11358	1000	0.5
Pb	10	M11400	1000	0.5
Sb	20	M11172	1000	1
V	10	M11241	1000	0.5
Zn	10	M11240	10000	0.05
K	1000	M11243	10000	5
Na	1000	M11366	10000	5
As	20	M11173	1000	1.
Ca	500	M11539	10000	2.5
Fe	300	M11535	10000	1.5
Se	20	M11171	10000	0.1
Tl	20	M11361	1000	1
Si	100	M11356	1000	5
B	20	M11205	1000	1
Li	20	M11362	1000	1
W	50	M11365	1000	2.5
Tl	10	M11364	1000	0.5
Sr	10	M11360	1000	0.5
Sn	50	M11359	1000	2.5
S	100	M11343	1000	5

#M11677 8-20-1

#M11678 8

#M11679

#M11680 08/22/13

#M11681 8-2

#M11682 8-2

#M11683 08/22/1

#M11684 08/22/13

#M11619 8-13-13 MRL into 500 ml vol flask pipet 10mls
.5% HCl, HNO3 of Master std #M11618. Bring up to Mark wit DI H2O

#M11620 8-13-13 ICV LL into 500 ml vol flask pipet ~~50~~ 30 mls
0.5% HCl, HNO3 of Master std #M11618. Bring up to Mark wit DI H2O.

#M11621 8-19-13 Na 1000 mg/L CPI Lot 13E226 ex 2/15

#M11622 8-19-13 Fe 10,000 mg/L CPI Lot 13H100 ex 2/15

#M11623 8-19-13 K 10,000 mg/L CPI Lot 13H099 ex 2/15

#M11624 8-19-13 K 1000 mg/L CPI Lot 13E108 ex 2/15

#M11675 08/20/13 15F Potassium permanganate soln: 50g potassium permanganate (#M11285)
Exp: 02/20/14 dissolve into 1000ml of D.I. H2O.

#M11676 08/20/13 15F NaCl Hydroxylamine Sulfate Reagent: Dissolve into 60g NaCl (#M11493) and
60g hydroxylamine sulfate (#M11336) in 500ml
Exp: 02/20/14 Milli-Q H2O.

#M11606 — Continuing Calibration Standard 1(CCV1)
8-7-13
5% HCL
5% HNO3

Into a one liter volmetric flask pipet 50mls of # M11584b (ex 07/14) and 5 ml of #M11585 (ex 07/14).
ex. 07/14
Bring up to mark with DI H2O

#M11607 — Continuing Calibration Standard 2(CCV2)
8-7-13
5% HCL + HNO3

Into a one liter volmetric flask pipet 5 mls of # M11584b (ex 7/14) and 0.5 ml of #M11585 (ex 07/14).
ex. 7/14
Bring up to mark with DI H2O

#M11608 — Initial Calibration Standard (ICV)
8-7-13
5% HCL + HNO3

Into one liter volumetric flask pipet 10 mls of M11542 (ex 6/14) 2.0 mls of #m11399 (ex 03/14) and 0.5 mls #M11357 Mo (ex 08/14) and 0.5 mls of #M11205 B (ex 5/14) bring up to mark with DI H2O

HNO3 (AB: 554)

Chloride (#M11558) in

#M11609 — ICSAB (DODcal) into 500 ml vol flask pipet 50 mls #M11399
5% HCL 8-7-13 — 2.5 mls #M11584b, 2.5 mls #M11585, 15 mls #M11535. Bring up to mark
5% HNO3 — w/ DI H_2O. ex 3/14.

#M11610 — ICSA (DODcal) into 500 ml vol flask pipet 50 mls #M11399
5% HCL 8-7-13 — 15 mls #M11535 bring up to mark with DI H_2O ex 3/14
5% HNO3

3-195NY

#M11611 08/13/13 SF — Hg Working Stds: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11612 08/13/13 SF — Hg Alt Source Working Std: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11613 08/13/13 SF — Hg ICV / LCSW (0.2% HNO3, HCl)

3.0ml of 100ug/L Hg (#M 11612) into 100ml = 3.0ug/L Hg

#M11614 08/13/13 SF — Hg CCV (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11615 08/13/13 SF — Hg MRL: (0.2% HNO3, HCl)

0.2ml of 100ug/L Hg (#M 11612) into 100ml = 0.2ug/L Hg

#M11616 08/13/13 SF — Hg Aqua Regia Reagent:

"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554) ,.

#M11617 08/13/13 SF — Stannous Chloride Reagent:

Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11558) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

ug/L std
tric flask= 1000 ug/L std

l0 mls #M11400 Pb (ex 3-14),

,10 mls #M11537 AL (ex 12/14)

), 50 mls #M11537 AL (ex 12/14)

2/14),100 mls #M11537 AL (ex 12/14)

ex 2-14

#M11597 08/05/13 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11598 08/05/13 SF	Hg All Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11599 08/05/13 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11598) into 100ml = 3.0ug/L Hg
#M11600 08/05/13 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11601 08/05/13 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11598) into 100ml = 0.2ug/L Hg
#M11602 08/05/13 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11603 08/05/13 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11558) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11604 8-6-13 Spex Certiprep Custom Assurance Std Lot # 3-195NY ex Aug 2014.
A

#M11605
8-7-13
A

ICAP Working Standards

5% HNO3 5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M11584b(ex 07/14) and 1.0 mls of #M11585 (ex 07/14) into 1000 ml volumectric flask= 100 ug/L std
1000	10.0 mls of #M11584b(ex 07/14) and #M11585 (ex 07/14) and 1 mL of #M11356 Si into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 mls #M11584b (ex 07/14),100 mls #M11585 (ex 07/14),
100k	10 mls of #M11051 Cu (ex 2/14) , 10 mls of #M11054 Mn (ex 2/14) , 10 mls of #M11053 Cr (ex 2/14), 100 mls #M11400 Pb (ex 3-14), 10 mls zn #M11240(ex 6-14), 10 mls #M11366 Na (ex 8/14)= 100,000 ug/L 10 mls #M11607 As (ex 8/14)
100,000	10 mls of #M11536 Mg (ex 12/14) , 10 mls of #M11535 Fe (ex 12/14) ,10 mls of #M11539 Ca (ex 12/14),10 mls #M11537 AL (ex 12/14) , Into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M11536 Mg (ex 12/14) , 50 mls of #M11535 Fe (ex 12/14) ,50 mls of #M11539 Ca (ex 12/14), 50 mls #M11537 AL (ex 12/14) Into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M11536 Mg (ex 12/14) , 100 mls of #M11535 Fe (ex 12/14) ,100 mls of #M11539 Ca (ex 12/14),100 mls #M11537 AL (ex 12/14) Into 1000 ml vol flask = 1,000,000 ug/l std
	Bring the 1000 ml volumetric up to mark with DI H2O

ex 2-14

#M11606
8-7-13 A
5% HCL
5% HNO3

#M11607
8-7-13 A
5% HCL + HNO3

#M11608
8-7-13 A
5% HCL
+ HNO3

#M11609
5% HCL 8-7-13
5% HNO3 A

#M11610
5% HCL 8-7-13
5% HNO3 A

#M11611 08/13/13 SF

#M11612 08/13/13 SF

#M11613 08/13/13 SF

#M11614 08/13/13 SF

#M11615 08/13/13 SF

#M11616 08/13/13 SF

#M11617 08/13/13 SF

H2O. Add 114mL
and 128.6mL
dilute to 2oL with H2O
0.05

1936, product # 39043

#10-70YP

Expiet 50 mls
11573 & M11085.
9/13

H2O. Add 114mL
6mL 10N NaOH
H2O and mix.

#M11584b 7-29-13 Custum Assurance std 100mg/L(22) Spex Certiprep Lot# 20-105CR.
7A ex 7/14.

#M11585 7-29-13 Custum Assurance std 100mg/L(3) Spex Certiprep Lot# 20-104CR.
7A ex 7/14

#M11586 07/30/13 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11587 07/30/13 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11588 07/30/13 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11587) into 100ml = 3.0ug/L Hg
#M11589 07/30/13 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11590 07/30/13 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11587) into 100ml = 0.2ug/L Hg
#M11591 07/30/13 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11592 07/30/13 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11492) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11593 07/31/13 SF NaCl Hydroxylamine Sulfate Reagent: Dissolve into 60g NaCl (#M11493) and 60g hydroxylamine Sulfate (#M11376) in 500mL Milli-Q H2O.
Exp: 01/31/13

#M11594 07/31/13 MDS TCLP Extraction Fluid #1: Fill a 20L Carboy with 19L D.I. H2O. Add 114mL Glacial Acetic (AB.565) and 128.6mL 10N NaOH (M11507). Dilute to 20L with D.I. H2O + mix.
pH = 4.93±0.05

#M11595 07/31/13 MDS TCLP Extraction Fluid #1: Fill a 20L Carboy with 19L D.I. H2O. Add 114mL Glacial Acetic (AB.565) and 128.6mL 10N NaOH (M11507). Dilute to 20L with D.I. H2O.
pH = 4.93±0.05

#M11596 08/02/13 SF Potassium permanganate Soln: 50g Potassium permanganate (#M11285) dissolve into 1000mL of D.I. H2O.
Exp: 02/02/14

HNO3 (AB: 554)

w/ D.I. H2O.

D.I. H2O.

#M11571 07/16/13 (5F) TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114 mL Glacial Acetic Acid (AB: 565) and 128.6 mL 10N NaOH (#M11507) ~~07/16/13 5F~~. Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 07/16/14

#M11572 07/16/13 MDS Nickel Nitrate Matrix Modifier Sol'n Alfa Aesar - Specpure Lot # 32-441193E, product # 39043
exp. 07/14

M11573 07/16/13 JA Spex Certiprep Custom Assurance std Lot # 10-70YP
ex 7/30/14

M11574 7-17-13 JA ICSAB into 500 mL vol flask pipet 50 mls of #M11399 15 mls #M11535 2.5 mls of #M11573 + M11585
ex 8/13
Bring up to mark with DI H_2O & ex 9/13

#M11575 07/23/13 (5F) TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114 mL Glacial Acetic (AB: 565) and 128.6 mL 10N NaOH (#M11507). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 07/23/14

M11576 07/24/13 (5F)	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M11577 07/24/13 (5F)	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
M11578 07/24/13 (5F)	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11577) into 100ml = 3.0ug/L Hg
M11579 07/24/13 (5F)	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
M11580 07/24/13 (5F)	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11577) into 100ml = 0.2ug/L Hg
M11581 07/24/13 (5F)	Hg Aqua Regia Reagent:	"Carefully" in hood; mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
M11582 07/24/13 (5F)	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11492) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

M11583 07/25/13 MDS: GFAA Base Std. Into a Liter vol. Flask, pipet 0.25 mL #M11430. Bring up to volume w/ D.I. H_2O.
exp: 05/14

M11584 07/25/13 MDS GFAA ICV (alt source) - Into a Liter vol. Flask, pipet 1mL #M11431. Bring up to volume with D.I. H_2O.

M11584 7-29-13 Custum Assurance std 100mg/L (22) Spex Certiprep
JA ex 7/14

M11585 7-29-13 Custum Assurance std 100mg/L (3) Spex Certiprep
JA ex 7/14

#M11586 07/30/13 (5F)	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10m 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11587 07/30/13 (5F)	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10m 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11588 07/30/13 (5F)	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11587) into 100ml = 3.0
#M11589 07/30/13 (5F)	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10r 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11590 07/30/13 (5F)	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11587) into 100ml = 0.2
#M11591 07/30/13 (5F)	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) wit
#M11592 07/30/13 (5F)	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g S 70 mL HCl (AB: 553). Bring up to volume with D

#M11593 07/31/13 (5F) Acid Hydroxylamine Sulfate Reagent: Dissolve into 600g NaCl (
hydroxylamine Sulfate (#M
H_2O.
Exp: 01/31/13

#M11594 07/31/13 MDS TCLP Extraction Fluid #1: Fill a 20L Carboy with 19L D.I. H_2O. Add
and 128.6 mL 10N NaOH (M11507). Dilute
pH = 4.93 ± 0.05

#M11595 07/31/13 MDS TCLP Extraction Fluid #1: Fill a 20L Carboy with 19L D.I. H_2O. Add 114 mL
and 128.6 mL 10N NaOH (M11507). Dilut
pH = 4.93 ± 0.05

#M11554 07/02/13 15F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11555 07/02/13 15F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11552) into 100ml = 0.2ug/L Hg
#M11556 07/02/13 15F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11557 07/02/13 15F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.
#M11558 07/08/13 15F	Stannous Chloride (Macron) - Lot # 0000045932	
#M11559 07/10/13 MOS exp. 05/14	GFAA Base Std. - Into a Liter vol. Flask, pipet 0.25mL #M11430. Bring up to volume with D.I water.	
#M11560 07/10/13 MOS	GFAA ICV (Alt. Source) - Into a 1-Liter vol. flask, pipet 1ml #M11431 + bring up to volume with D.I water.	
#M11561 07/10/13 MOS	GFAA CCV - Into a 1-Liter vol. Flask, pipet 0.1mL #M11430 + bring up to volume with D.I water.	
#M11562 07/10/13 15F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11563 07/10/13 15F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11564 07/10/13 15F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11563) into 100ml = 3.0ug/L Hg
#M11565 07/10/13 15F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11566 07/10/13 15F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11563) into 100ml = 0.2ug/L Hg
#M11567 07/10/13 15F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11568 07/10/13 15F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11492) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.
#M11569 07/15/13 15F Exp: 01/15/14	Potassium permanganate sol'n	50g Potassium permanganate (#M11285) dissolve into 1,000mL of D.I. H_2O.
#M11570 07/16/13 15F Exp: 07/16/14	TCLP Extraction Fluid #1	Fill a 20L carboy w/19L D.I. H_2O. Add 114mL (AB: 553) 07/16/13 15F 6 Glacial Acetic Acid and 128.6mL 10N NaOH (#M11344) 07/16/13 15F. Dilute to 20L

#M11538 06/24/13 LSF Na 1000mg/L CPI Lot#13E225 Exp: 12/14/14

#M11539 06/24/13 LSF Ca 10,000mg/L CPI Lot#13B105 Exp: 12/14/14

M11540 06/24/13 LSF K 1000mg/L CPI Lot#13E108 Exp: 12/14/14

M11541 06/25/13 LSF Potassium permanganate soln: 50g Potassium permanganate (#M11285) dissolve into 1,000mL of D.I. H_2O. Exp: 12/25/13

M11542 06/26/13 Custom Assurance std Spex Certiprep Lot # 3-8[illegible] ex 6/14.

#M11543 06/26/13 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11544 06/26/13 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11545 06/26/13 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11544) into 100ml = 3.0ug/L Hg
#M11546 06/26/13 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11547 06/26/13 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11544) into 100ml = 0.2ug/L Hg
#M11548 06/26/13 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11549 06/26/13 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11550 6-26-13 LSF 10,000 µg/mL Env Express Lot # 1311349 ex 12/14

#M11551 07/02/13 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11552 07/02/13 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11553 07/02/13 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11552) into 100ml = 3.0ug/L Hg

M11523 06/13/13 MDS GFAA LOD/LOQ Water Spiking Soln: Into a 1L vol. Flask, pipet 10mL of #M11522 (1% HNO_3) and bring up to volume with D.I water.

#M11524 06/13/13 LSF Potassium persulfate: 50g potassium persulfate (#M9903) dissolve into 1,000mL D.I. H_2O.
Exp: 12/13/13

#M11525 06/14/13 MDS GFAA LOD/LOQ Soil Working Std: Into a 200mL vol. Flask partially filled with D.I H_2O, pipet the following and bring up to volume with D.I H_2O.

1.2mL Sb 1000mg/L (#M11172) = 6,000ug/L Sb
3.2mL As 1000mg/L (#M11173) = 16,000ug/L As
3.2mL Se 1000mg/L (#M11171) = 16,000ug/L Se
0.08mL Pb 10,000 mg/L (#M10873) = 4,000 ug/L Pb
1.0mL Tl 1000mg/L (#M11361) = 5,000ug/L Tl

#M11526 06/14/13 MDS GFAA LOD/LOQ Soil Spiking soln: Into a 1L vol. Flask, pipet 10mL of #M11525 + bring up to volume with DI H_2O.

#M11527 06/17/13 LSF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11528 06/17/13 LSF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg .

#M11529 06/17/13 LSF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M11528) into 100ml = 3.0ug/L Hg

#M11530 06/17/13 LSF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11531 06/17/13 LSF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M11528) into 100ml = 0.2ug/L Hg

#M11532 06/17/13 LSF — Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11533 06/17/13 LSF — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11534 06/20/13 LSF NaCl Hydroxylamine Sulfate Reagent: Dissolve into 60g NaCl (#M11493) and 60g hydroxylamine sulfate (#M11376) in 500mL Milli-Q H_2O.
Exp: 12/20/13

#M11535 06/24/13 LSF Fe 10,000 mg/L CPI Lot# 13D144 Exp: 12/14/14

#M11536 06/24/13 LSF Mg 10,000 mg/L CPI Lot# 13B063 Exp: 12/14/14

#M11537 06/24/13 LSF Al 10,000 mg/L CPI Lot# 13D139 Exp: 12/14/14

#M11511 06/10/13 JSF NaCl Hydroxylamine Sulfate Reagent: Dissolve 600g NaCl (#M11493) and 600g hydroxylamine Sulfate (#M11376) in 500ml Milli-Q H_2O.
Exp: 12/10/13

#M11512 06/10/13 JSF Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11513 06/10/13 JSF Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11514 06/10/13 JSF Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 11513) into 100ml = 3.0ug/L Hg

#M11515 06/10/13 JSF Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11516 06/10/13 JSF Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M 11513) into 100ml = 0.2ug/L Hg

#M11517 06/10/13 JSF Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11518 06/10/13 JSF Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11519 06/12/13 MOS Pd/Mg Modifier- Into a 50mL vol. Flask, pipet 15mL #M11411 and 5mL #M10551. Bring up to volume with milli-Q H_2O.

#M11520 06/13/13 MOS GFAA LOD/LOQ Soil Ag Spiking Sol'n: (1% HNO_3) exp 04/24/14
Into a 1L vol. Flask, pipet 10mL of #M11521 and bring up to volume w/ D.I water.

#M11521 06/13/13 MOS GFAA LOD/LOQ Soil Ag Working Std: (1% HNO_3) exp. 04/24/14
Into a 200mL vol. Flask, partially filled w/ DI water, pipet the following and bring up to volume w/ DI H_2O.
0.12 mL Ag 1000mg/L (#M11170) = 600 ug/L Ag

#M11522 06/13/13 MOS GFAA LOD/LOQ Water Working Std: (1% HNO_3)
Into a 100mL vol. Flask, partially filled with DI H_2O, pipet the following + bring up to volume w/ DI H_2O.
1.5mL Sb 1000mg/L (#M11172) = 15,000 ug/L Sb
1.0mL As 1000mg/L (#M11173) = 10,000 ug/L As
2.0mL Se 1000mg/L (#M11171) = 20,000 ug/L Se
0.045mL Pb 10,000 mg/L (#M10839) = 4500 ug/L Pb
0.4mL Tl 1000 mg/L (#M11361) = 4000 ug/L Tl
0.1mL Ag 1000 mg/L (#M11170) = 1000 ug/L Ag

#M11523 06/13/13 MO

#M11524 06/13/13 L
Exp

#M11497 05/28/13 LSF TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M11344). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 05/28/14

#M11498 05/31/13 LSF Potassium permanganate Soln: 50g potassium permanganate (#M11285) dissolve into 1,000mL of D.I. H_2O.
Exp: 11/01/13

#M11499 06/03/13 LSF

Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11500 06/03/13 LSF

Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml =10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11501 06/03/13 LSF

Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11500) into 100ml = 3.0ug/L Hg

#M11502 06/03/13 LSF

Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11503 06/03/13 LSF

Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11500) into 100ml = 0.2ug/L Hg

#M11504 06/03/13 LSF

Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11505 06/03/13 LSF

Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11506 06/04/13 MDS TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 19L D.I H_2O. Add 114mL Glacial Acetic Acid (AB:565) ~~(AB:534)~~ 06/04/13 MDS and 128.6mL 10N NaOH ~~(#M11344)~~ (#M11469) MDS 06/04/13. Dilute to 20L w/ D.I H_2O and mix. pH = 4.93 ± 0.05

#M11507 06/04/13 MDS 10N NaOH: Into a 1L Flask, add 400g NaOH (#M11145) and bring to volume w/ D.I H_2O.

#M11508 06/04/13 MDS TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 19L D.I H_2O. Add 114mL Glacial Acetic Acid (AB:565) and add 128.6mL 10N NaOH (#M11469). Dilute to 20L w/ D.I H_2O and mix. pH = 4.93 ± 0.05

#M11509 06/04/13 MDS TCLP Extraction Fluid #1: Fill a 20L Carboy w/ 19L D.I H_2O. Add 114mL Glacial Acetic Acid (AB:565) and add 128.6mL 10N NaOH (#M11507). Dilute to 20L w/ D.I H_2O and mix. pH = 4.93 ± 0.05

#M11510 06/05/13 LSF Potassium permanganate soln: 50g Potassium permanganate (#M11285) dissolve into 1,000mL of D.I. H_2O.
Exp: 01/01/14

#M11483 05/17/13 LSF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11484 05/17/13 LSF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11485 05/17/13 LSF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 11484) into 100ml = 3.0ug/L Hg

#M11486 05/17/13 LSF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11487 05/17/13 LSF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M 11484) into 100ml = 0.2ug/L Hg

#M11488 05/17/13 LSF — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11489 05/17/13 LSF — Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11015) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11490 05/20/13 LSF TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H2O. Add 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M11344). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 05/20/14

#M11491 05/21/13 LSF NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574) and 60g hydroxylamine Sulfate (#M11039) in 50mL Milli-Q H2O.
Exp: 11/21/13

#M11492 05/28/13 LSF Stannous Chloride (Macron) - Lot #0000040028

#M11493 05/28/13 LSF Sodium Chloride Fisher Lot NO. 126180 F.W. 58.44

#M11494 05/28/13 LSF TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H2O. Add 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M11344). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 05/28/14

#M11495 05/28/13 LSF TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H2O. Add 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M11344). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 05/28/14

#M11496 05/28/13 LSF TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H2O. Add 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M11344). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 05/28/13

#M11497 05/28/13 LSF

#M11498 05/31/13 LSF

#M11499 06/03/13 LSF

#M11500 06/03/13 LSF

#M11501 06/03/13 LSF

#M11502 06/03/13 LSF

#M11503 06/03/13 LSF

#M11504 06/03/13 LSF

#M11505 06/03/13 LSF

#M11506 06/04/13 MDS

#M11507 06/04/13 MDS

#M11508 06/04/13 MDS

#M11509 06/04/13 MDS

#M11510 06/07/13

4ml Glacial #M11344). 4.93± 0.05

114ml Glacial (#M11344). 4.93± 0.05

gasoline
1ml of DI. H2O.

#M11473 05/09/13 SF

#M11474 05/09/13 SF

#M11475 05/09/13 SF

#M11476 05/09/13 SF

#M11477 05/09/13 SF

#M11478 05/09/13 SF

#M11479 05/09/13 SF

: 554)

(#M11675) in

4 05/10/13 SF
) and 60g
500ml Milli-Q H2O

to volume with

piped 5mls
DI H2O.
2014

#M11471
5-1-13 ZA Boron + Silicon ICV 10% HCL 5-7-13 into 200 ml vol flask piped 0.2 mls #M11205 & #M11356. Bring up to mark with DI H2O. ex 5/14.

5-1-13 ZA
#M11472 ICSA List 2 into 500 ml vol flask piped 50mls #M11225 & 0.25 mls of #M11359, #M11362, #M11364, #M11056, #M11360. Bring up to mark with DI H2O. ex 12/13

Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11474) into 100ml = 3.0ug/L Hg
Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11474) into 100ml = 0.2ug/L Hg
Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11675) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11480 05/10/13 SF Potassium Persulfate: 50g potassium persulfate (#M10573) dissolve into 1,000ml of D.I. H2O.
Exp: 11/10/13

#M11481 05/13/13 SF Potassium permanganate Soln: 50g potassium permanganate (#M9903) dissolve into 1,000ml of D.I. H2O.
Exp: 11/13/13

#M11482 05/15/13 SF Tclp Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H2O. Add 114ml Glacial Acetic Acid (AB:534) and 128.6ml 10N NaOH (#M11468). Dilute to 20L with D.I. H2O and mix. pH: 4.93± 0.05.
Exp: 05/15/14

#M11458 04/24/13/5F TCLP Extraction Fluid #1: Fill a 20L Carboy w/19L D.I. H_2O. Add 114ml Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M11344). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 04/24/14

#M11459 04/30/13/5F TCLp Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114ml Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M11344). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 04/30/14

#M11460 ~~04~~ 05/01/13/5F 05/01/13/5F Potassium permanganate soln: 50g potassium permanganate (#M9903) dissolve into 4000ml of D.I. H_2O.
Exp: 11/01/13

#M11461 05/01/13/5F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11462 05/01/13/5F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11463 05/01/13/5F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11462) into 100ml = 3.0ug/L Hg
#M11464 05/01/13/5F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11465 05/01/13/5F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11462) into 100ml = 0.2ug/L Hg
#M11466 05/01/13/5F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11467 05/01/13/5F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M1675) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11468 05/01/13/5F NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9903) and 60g hydroxylamine sulfate (#M11039) in 500ml Milli-Q H_2O 05/01/13/5F
Exp: 11/01/13

#M11469 05/03/13/5F 10N NaOH: Into a 1L flask add 400g NaOH (#M11345) and bring up to volume with D.I. H_2O.
Exp: 11/03/13

#M11470 - 21 5-1-13 ICV Sodium & Potassium: Into a 500 ml vol flask piped 5mls of #M11243 & 5mls M113616 Bring up to mark with DI H_2O.
10% HNO_3, 1% HCl
ex Jun/2014

#M11471 5-1-13 Boron 1% HCl 5-1-13

#M11472

#M11473 05/09/13/5F

#M11474 05/09/13/5F

#M11475 05/09/13/5F

#M11476 05/09/13/5F

#M11477 05/09/13/5F

#M11478 05/09/13/5F

#M11479 05/09/13/5F

#M11480 05/10/13/5F

#M11481 05/13/13

#M11482 05/15/13/5F
Exp:

(AB: 554)

de (#M1675) in

exp: 04/01/14

exp: 04/01/14

pipet
H_2O_2

Vol flask
and DI H_2O

flask pipet
t with DI H_2O

IO3 (AB: 554)

nloride (#M1675) in

#M11442 04/09/13SF TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.534) and 128.6mL 10N NaOH (#M11344) Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05

Exp: 04/09/14

#M11443 04/12/13SF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11444 04/12/13SF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11445 04/12/13SF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 11444) into 100ml = 3.0ug/L Hg

#M11446 04/12/13SF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11447 04/12/13SF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M 11444) into 100ml = 0.2ug/L Hg

#M11448 04/12/13SF — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11449 04/12/13SF — Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 1675) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11450 04/12/13SF Potassium Permanganate Sol'n: 50g Potassium permanganate (#M9903) dissolve into 1000mL of D.I. H_2O.

Exp: 10/12/13

#M11451 04/22/13SF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11452 04/22/13SF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11453 04/22/13SF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 11452) into 100ml = 3.0ug/L Hg

#M11454 04/22/13SF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11455 04/22/13SF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M 11452) into 100ml = 0.2ug/L Hg

#M11456 04/22/13SF — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11457 04/22/13SF — Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 1675) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11427 04/01/13 SF — Hg MRL: (0.2% HNO3, HCl) — 0.2ml of 100ug/L Hg (#M11434) into 100ml = 0.2ug/L Hg

#M11428 04/01/13 SF — Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11429 04/01/13 SF — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11675) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11430 04/01/13 SF — Custom Solution ~~CST-STK-1~~ Inorganic Ventures lot#G2-MEB471044 Exp: 04/01/14

#M11431 04/01/13 SF — Custom Solution Inorganic Ventures lot#G2-MEB471043 Exp: 04/01/14

#M11432 04-02-13 GFAA Base Std. Into 1 Liter Vol flask pipet 2ml 0.5% HNO3 0.25 mls of #M11430 bring up to mark with DI H_2O. ex 5/14.

#M11433 4-2-13 GFAA ICV (Alt Source). Into 1 Liter Vol flask pipet 1ml 2ml 0.5% HNO3 #M11431. Bring up to mark with DI H_2O. ex 5/14

#M11434 4-2-13 GFAA CCV - Into 1 Liter Vol flask pipet 2ml 0.5% HNO3 0.1mls M11430. Bring up to mark with DI H_2O ex 5/14

#M11435 04/05/13 SF — Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11436 04/05/13 SF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11437 04/05/13 SF — Hg ICV / LCSW (0.2% HNO3, HCl) — 3.0ml of 100ug/L Hg (#M11436) into 100ml = 3.0ug/L Hg

#M11438 04/05/13 SF — Hg CCV (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11439 04/05/13 SF — Hg MRL: (0.2% HNO3, HCl) — 0.2ml of 100ug/L Hg (#M11436) into 100ml = 0.2ug/L Hg

#M11440 04/05/13 SF — Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11441 04/05/13 SF — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11675) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11442 04/09/13 SF

Ex

#M11443 04/12/13 SF

#M11444 04/12/13 SF

#M11445 04/12/13 SF

#M11446 04/12/13 SF

#M11447 04/12/13 SF

#M11448 04/12/13 SF

#M11449 04/12/13 SF

#M11450 04/12/13 SF

Ex

#M11451 04/22/13 SF

#M11452 04/22/13 SF

#M11453 04/22/13 SF

#M11454 04/22/13 SF

#M11455 04/22/13 SF

#M11456 04/22/13 SF

#M11457 04/22/13 SF

~~#M11413~~ 03/21/13 SF #M11413 03/21/13 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11414 03/21/13 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11415 03/21/13 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11414) into 100ml = 3.0ug/L Hg
#M11416 03/21/13 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11417 03/21/13 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11414) into 100ml = 0.2ug/L Hg
#M11418 03/21/13 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11419 03/21/13 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11420 03/25/13 SF Potassium Permanganate Soln: 50g Potassium permanganate (#M9703) dissolve into 1,000ml of D.I. H_2O.
Exp: 09/25/13

#M11421 03/29/13 SF Potassium persulfate: 50g Potassium persulfate (#M10573) dissolve into 1,000ml D.I. H_2O.
Exp: 09/29/13

#M11422 03/29/13 SF NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574) and 60g hydroxylamine sulfate (#M11039) in 500ml Milli-Q H_2O.
Exp: 09/29/13

#M11401 3/14.	#M11423 04/01/13 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
Acetic to 2ol	#M11424 04/01/13 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
	#M11425 04/01/13 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11424) into 100ml = 3.0ug/L Hg
	#M11426 04/01/13 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11398 03/15/13 15F Custom Assurance Standard. spex certiprep lot# 1-222XL Exp: 03/30/ 03/14/ 03/15/13
Cat#: XCTW7-5-500

#M11399 03/15/13 15F Interferents A Standard. Spex CertiPrep lot# 6-126YP Exp: 03/30/14

#M11400 03/15/13 15F Pb 1,000 mg/L spex CertiPrep lot# 18-129PBY Exp: 03/30/14

#M11401 03/15/13 15F As 1,000 mg/L spex CertiPrep lot# 18-131ASY Exp: 03/30/14

#M11402 03/18/13 15F

Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11403) into 100ml = 3.0ug/L Hg
Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11403) into 100ml = 0.2ug/L Hg
Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11402 03/18/13 15F
#M11403 03/18/13 15F
#M11404 03/18/13 15F
#M11405 03/18/13 15F
#M11406 03/18/13 15F
#M11407 03/18/13 15F
#M11408 03/18/13 15F

#M11409 03/19/13 15F Hg 1,000 mg/L CPI lot# 12H328 Exp: 09/13/14

#M11410 3/21/13 21 ICV 2 ICP DOD Cal Dnto 1 Liter Vol flask pipet 5mls #M
5% HCl + #M11400 Bring up to mark with DI H_2O ex 3/1
5% HNO_3 = 5000 ug/L As + Pb

#M11411 3-21-13 21 PdNO3 Env. Express Lot# 1234818 ex 3/14

#M11412 03/21/13 15F TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB: 534) and 128.6mL 10N NaOH (#M11344). Dilute to 20 with D.I. H_2O and mix. pH=4.93 ~~AS~~ 03/21/13 15F DOS

114ml
60ml
H2O

#M11388 03/08/13 LSF GFAA H2O LOQ Spiking Solution

Spiking Solution calc
Base SPIKE PREPARATION 50x Exp: 04/13

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag water	0.4	M11170	1000	0.02
As water	4	M11173	1000	0.2
Pb water	1.8	M10839	1000	0.09
Sb water	6	M11172	1000	0.3
Se water	8	M11171	1000	0.4
Tl water	1.6	M10566	1000	0.08

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M11389 03/08/13 LSF GFAA soil LOQ Spiking Solution

Spiking Solution calc
Base SPIKE PREPARATION 50x Exp: 4/13

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag soil	0.48	M11170	1000	0.024
As soil	6.4	M11173	1000	0.32
Pb soil	1.6	M10839	1000	0.08
Sb soil	2.4	M11172	1000	0.12
Se soil	6.4	M11171	1000	0.32
Tl soil	2	M10566	1000	0.1

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

1ml into

#M11390 03/11/13 LSF — Hg Working Stds: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11391 03/11/13 LSF — Hg Alt Source Working Std: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11392 03/11/13 LSF — Hg ICV / LCSW (0.2% HNO3, HCl)

3.0ml of 100ug/L Hg (#M ~~11512~~ 11391 03/11/13 LSF) into 100ml = 3.0ug/L Hg

#M11393 03/11/13 LSF — Hg CCV (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11394 03/11/13 LSF — Hg MRL: (0.2% HNO3, HCl)

0.2ml of 100ug/L Hg (#M ~~11012~~ 11391 03/11/13 LSF) into 100ml = 0.2ug/L Hg

#M11395 03/11/13 LSF — Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11396 03/11/13 LSF — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M ~~10757~~) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11397 03/14/13 LSF TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H2O. Add 114mL Glacial Acetic Acid (AB: 534) and 128.6mL 10N NaOH (#M11344). Dilute to 20L with D.I. H2O and mix. pH=4.93 ± 0.05

Exp: 03/14/14

#M11381 03/04/13 SF TCLP Extraction Fluid #1: Fill a 20L carboy w/19L DI. H_2O. Add 114 mL Glacial Acetic Acid (AB.534) and 128.6 mL 10 N NaOH (#M11344). Dilute to 20L with DI. H_2O and mix. pH=4.93±0.05

Exp: 03/04/14

M11382 Working Stds Lot 2 Into 4 200 ml vol flasks pipet
3-5-13 [illegible]

1% HNO3 1% HCL	10	0.02 mls #M11203 + .002 mls #M11365
	100 ug/L	0.2 mls #M11203 + .02 mls #M11365
	1000 ug/L	2 mls #M11203 + .2 mls #M11365
	10,000 ug/L	20 mls #M11203 + 2 mls M11365

Bring up to mark with DI H_2O ex Nov 2013

M11383 ICV L2 Into a 200 ml vol flask pipet 0.2 mls of
3-5-13 #M11356, #M11365, #M11359, #M11360 and #M11356
1% HNO3 1% HCL Bring up to mark with DI H_2O ex 12/13

#M11384 03/07/13 SF 2OD, 2OQ Check (3050) Into 1 liter volumetric flask pipet 1 ml M11343. Bring up to mark with DI. H_2O x50 dilution use 1 ml in 50 or ~~10~~ 10 Into 500 ml for = 240 ug/L or 6 mg/kg.
03/07/13 SF
(306)

Exp: 02/28/14

#M11385 03/07/13 SF 2OD, 2OQ Check 5 H_2O. Into a 1 Liter volumetric flask pipet 1 ml M11343. Bring up to mark with DI. H_2O x50 dilution use 1 ml in 50 or 10 into 500 ml for = 240 ug/L or 6 mg/kg.

Exp: 02/28/14

#M11386 03/08/13 SF Hg H_2O 2OQ Spiking Solution

Spiking Solution calc
Base SPIKE PREPARATION 50x Exp 04/13

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Hg water	0.12	M10563	1000	0.006

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M11387 03/08/13 SF Hg soil 2OQ Spiking Solution

Spiking Solution calc
Base SPIKE PREPARATION 50x Exp: 04/13

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Hg soil	0.2	M10563	1000	0.01

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M11368 02/26/13 SF Fe 10,000mg/L ODI Lot# 13B029 Exp: 08/20/14

#M11369 02/28/13 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11370 02/28/13 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11371 02/28/13 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11370) into 100ml = 3.0ug/L Hg
#M11372 02/28/13 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11373 02/28/13 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11370) into 100ml = 0.2ug/L Hg
#M11374 02/28/13 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11375 02/28/13 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M[illegible]) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11376 03/01/13 SF (Fisher) Hydroxylamine Sulfate Lot #116718A Exp: 03/01/14

M11377 5 working stds. into 4 100 ml vol. flask pipet respectively
A 3-1-13 from #M 11343 10,000 mg/L S spex Certiprep Lot# AG14-1235 Y std
0.01 mls -> = 1000ug/L S
0.1 mls -> = 10,000 ug/L S
1.0 mls -> = 100,000 ug/L S
10 mls -> = 1000 ug/L S
Bring up + mark w/ DI #20 ex 2/14

#M11378 5 ICV (Alt) into 1 100 vol flask pipet from #M10773
A 3-1-13 A Plasma Cal lot S120116017 0.01 mls = 1000ug/L S. ex 10/13
Bring up to mark w/DI.

#M11379 03/04/13 SF Stannous Chloride (Macron) - Lot #0000017703

#M11380 3/4/13 A ICV into 1 liter vol flask Pipet 10mls M11342, 2mls #M11225, 0.5mls #M11357. Bring up to mark with DI #20. ex Nov. 2013.

#M11349 02/19/13 SF — Hg MRL: (0.2% HNO3, HCl) — 0.2ml of 100ug/L Hg (#M11346) into 100ml = 0.2ug/L Hg

#M11350 02/19/13 SF — Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11351 02/19/13 SF — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11675) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11352 02/22/13 SF Potassium permanganate Soln: 50g potassium permanganate (#M9903) dissolve into 1000mL of D.I. H2O.
Exp: 08/22/13

#M11353 02/22/13 SF NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574) and 60g hydroxylamine sulfate (#M11 in 500mL Milli-Q H2O.
Exp: 08/22/13

#M11354 02/22/13 SF TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H2O. Add 114mL Glacial Acetic Acid (AB.534) and 128.6mL 10N NaO (#M11344). Dilute to 20L with D.I. H2O and mix. pH=4.93 ± 0.05
Exp: 02/22/14

#M11355 2-26-13 ~~SF~~ Co 1000mg/L CPI Lot # 12H067 ex. 8/20/14
M

#M11356 02/26/13 SF Si 1000 mg/L CPI Lot#13A214 Exp: 08/20/14

#M11357 02/26/13 SF Mo 1000 mg/L CPI Lot#12K060 Exp: 08/20/14

#M11358 02/26/13 SF Ni 1000 mg/L CPI Lot#13A215 Exp: 08/20/14

#M11359 02/26/13 SF Sn 1000 mg/L CPI Lot#12I125 Exp: 08/20/14

#M11360 02/26/13 SF Sr 1000 mg/L CPI Lot#12L094 Exp: 08/20/14

#M11361 02/26/13 SF Tl 1000mg/L CPI Lot#12G229 Exp: 08/20/14

#M11362 02/26/13 SF Li 1000mg/L CPI Lot#12A008 Exp: 08/20/14

#M11363 02/26/13 SF Al 10,000mg/L CPI Lot#12K049 Exp: 08/20/14

#M11364 02/26/13 SF Ti 1000mg/L CPI Lot#12K061 Exp: 08/20/14

#M11365 02/26/13 SF W 1000mg/L CPI Lot#12H257 Exp: 08/20/14

#M11366 02/26/13 SF Na 10,000mg/L CPI Lot#13A194 Exp: 08/20/14

#M11367 02/26/13 SF Ca 10,000mg/L CPI Lot#12L059 Exp: 08/20/14

#M11336 02/07/13 SF TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.534) and 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 02/07/14

#M11337 02/08/13 SF Potassium permanganate soln: 50g Potassium Permanganate (#M9905) dissolve into 1,000mL of D.I. H_2O.
Exp: 08/08/13

#M11338 02/11/13 SF TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.534) and 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 02/11/14

#M11339 2-13-13 TCLP Extraction Fluid #1: fill a 20 Liter w 19L DI H_2O. Add 114 ml Glacial Acetic Acid (AB.534) and 128.6 ml 10N NaOH (#M10910) Dilute to 20L with DI H_2O & mix. pH = 4.93 ± .05
(exp 2-13-13)

#M11340 02/16/13 SPLP Extraction Fluid #1: Into a 20L carboy add D.I. H_2O to mark and adjust pH to 4.20 ± 0.05 with M10857.
Exp: 08/16/13

#M11341 02/16/13 SF TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.534) and 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 02/16/14

#M11342 2-18-13 Custom Assurance Std. xspike-1-250 Spec Certiprep lot# 18-157CR.

#M11343 2-18-13 Sulfa 10,000mg/L Spec Certiprep Lot#A614-177SU

#M11344 02/18/13 SF 10N NaOH: Into a 1L flask add 400g NaOH (#M11145) and bring up to volume with D.I. H_2O.
Exp: 08/18/13

#M11345 02/19/13 SF — Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11346 02/19/13 SF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L Into 100ml = 100ug/L Hg

#M11347 02/19/13 SF — Hg ICV / LCSW (0.2% HNO3, HCl)
- 3.0ml of 100ug/L Hg (#M11346) into 100ml = 3.0ug/L Hg

#M11348 02/19/13 SF — Hg CCV (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11321 01/29/13 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11320) into 100ml = 3.0ug/L Hg
#M11322 01/29/13 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11323 01/29/13 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11320) into 100ml = 0.2ug/L Hg
#M11324 01/29/13 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11325 01/29/13 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11045) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11326 01/30/13 SF TCLP Extraction Fluid #1: Fill a 20L carboy w 11.9L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB 534) and 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05

Exp: 01/30/14

#M11327 02/05/13 SF, #M11328 02/05/13 SF 1N HCL for TCLP: Into a 1L vol. flask, partially filled with Milli-Q H_2O, add 83mL of Conc. HCL (AB 561) and bring up to volume with Milli-Q H_2O.

Exp: 02/05/14

#M11328 02/06/13 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11329 02/06/13 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11330 02/06/13 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11329) into 100ml = 3.0ug/L Hg
#M11331 02/06/13 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11332 02/06/13 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11329) into 100ml = 0.2ug/L Hg
#M11333 02/06/13 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11334 02/06/13 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11045) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11335 02/07/13 SF NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574) and 60g hydroxylamine Sulfate (#M10739 M11039 02/07/13 SF) in 500mL Milli-Q H_2O.

Exp: 08/07/13

#M11308 01/17/13 SF TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M11296). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05

Exp: 01/17/14

#M11309 01/21/13 SF TCLP Extraction Fluid #1: Fill a 20L carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M11296). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05

Exp: 01/21/14

#M11310 1-22-13 Custom Assurance Standard Spex Certiprep Lot 18-068CR exp 1/14

#M11311 01/22/13 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11312 01/22/13 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11313 01/22/13 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11312) into 100ml = 3.0ug/L Hg
#M11314 01/22/13 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11315 01/22/13 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11312) into 100ml = 0.2ug/L Hg
#M11316 01/22/13 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11317 01/22/13 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11318 01/23/13 SF Potassium permanganate soln: 50g Potassium permanganate (#M9903) dissolve into 1,000mL of D.I. H_2O.

Exp: ~~01/23/13~~ 07/23/13

#M11319 01/29/13 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11320 01/29/13 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg

114mL

2 H_2O

2/4/13

#M11305 01/15/13 SF

MDL Spiking soln all 50X into 1 liter vol flask pipet the following:

Bring up to volume with D.I. H_2O. Use 1mL into 50mls or 10mls into 500.

3050 MDL Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	5	M11170	1000	0.25
Al	10	M10870	10000	0.05
As	20	M11173	1000	1
Ba	2	M11052	1000	0.1
Be	0.5	M11239	1000	0.025
Ca	50	M10898	10000	0.25
Cd	0.5	M11242	1000	0.025
Co	2.5	M10561	1000	0.125
Cr	5	M11053	10000	0.025
Cu	10	M11051	10000	0.05
Fe	20	M11228	10000	0.1
Mg	25	M10868	10000	0.125
Mn	5	M11054	10000	0.025
Mo	2.5	M10560	1000	0.125
Ni	5	M10565	1000	0.25
Pb	10	M10839	10000	0.05
Sb	20	M11172	1000	1
Se	20	M11171	1000	1
Tl	20	M10566	1000	1
V	5	M11241	1000	0.25
Zn	5	M11240	10000	0.025

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES 04/02/13

#M11306 01/15/13 SF

MDL Spiking soln B, Si into 1L vol flask pipet the following:

Bring up to volume with D.I. H_2O. Use 1mL into 5mls or 10mL into 500mls.

3050 MDL Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	20	M11205	1000	1
Si	100	M10860	1000	5

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES 04/02/13

#M11307 01/16/13 SF TCLP Extraction Fluid #1: ~~into~~ a 20L carboy w/ 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB534) and 128.6mL 10N NaOH (#M11796). Dilute to 20L with D.I. H_2O and mix. pH=4.93 ± 0.05

Exp: 01/16/14

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#M11292 01/07/13 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11293 01/07/13 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11290) into 100ml = 0.2ug/L Hg
#M11294 01/07/13 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11295 01/07/13 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11296 01/08/13 LSF 10N NaOH: Into a 1L flask add 400g NaOH (#M10570) and bring up to volume with D.I. H_2O.
Exp: 01/08/14

#M11297 01/10/13 LSF Potassium persulfate: 50g potassium persulfate (#M10573) dissolve into 1,000mL D.I. H_2O.
Exp: 07/10/13

#M11298 01/11/13 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11299 01/11/13 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11300 01/11/13 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11299) into 100ml = 3.0ug/L Hg
#M11301 01/11/13 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11302 ~~01/11~~ 01/11/13 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11299) into 100ml = 0.2ug/L Hg
#M11303 01/11/13 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11304 01/11/13 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M [illegible]) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

2/24/13

#M11284 A
5% HCL 1-4-13
5% HNO3

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	14.4	M10567	1000	0.72
Sn	20	M10562	1000	1
Sr	3.2	M10569	1000	0.16
Tl	9.6	M10709	1000	0.48
W	24	M10559	1000	1.2

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 4/13

~~#M11285 01/04/13 SF Ammonium Chloride (Mallinckrodt) - Lot. No.~~

#M11285 Potassium Permanganate (Fisher) - Lot. No. 123302
01/04/13 SF

#M11286 01/07/13 SF NaCl Hydroxylamine ~~Sulfate~~ Sulfate 01/07/13 SF Reagent: Dissolve 60g NaCl (#M9574) and 60g hydroxylamine sulfate (#M10262) in 500mL Milli-Q H2O.
Exp: 07/07/13

ICAP Working Standards Boron & Silicon

#M11287 A
1-7-13

Standard name — Into 1 liter Pipet the following respectively:

50	0.5 mls of #M11203 and .05mls #M10860 = 50 ug/L
100	1.0 mls of #M11203 and 0.1mls #M10860 = 100 ug/L
1000	10 mls of #M11203 and 1.0mls #M10860 = 1000 ug/L
2000	20 mls of #M11203 and 2.0mls #M10860 = 1000 ug/L
10000	100 mls of #M11203 and 10mls #M10860 = 10000 ug/L

*A 1-7-13 ex 12-13

#M11288 A
1-7-13

Initial Calibration Standard (ICV) B, Si
Into 1 liter vol fisk pipet 1 ml of #M11205 & M10564
bring up to mark with DI H2O ex 4/13

#M11289 01/07/13 SF

Hg Working Stds: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11290 01/07/13 SF

Hg Alt Source Working Std: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11291 01/07/13 SF

Hg ICV / LCSW (0.2% HNO3, HCl)

3.0ml of 100ug/L Hg (#M11290) into 100ml = 3.0ug/L Hg

#M11280 1-4-13
5% HCL 5% HNO3

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
K	2640	M11243	10000	13.2
Na	960	M10570	10000	4.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 4/13

#M11281 1-4-13
5% HCL, 5% HNO3

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	52	M11205	1000	2.6
Si	192	M10564	1000	9.6

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 4/13

#M11282 1-4-13
5% HCL, 5% HNO3

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	16	M11205	1000	0.8
Si	200	M10564	1000	10

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 13-Apr

#M11283 1-4-13
5% HCL
5% HNO3

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	10	M10587	1000	0.5
Sn	10	M10562	1000	0.5
Sr	2	M10569	1000	0.1
Tl	.8	M10709	1000	0.4
W	36	M10559	1000	1.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 13-Apr

2-4-13

#M11278 1-4-13
5% HCL 5% HNO3
JT

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	4	M11170	1000	0.2
Al	38	M11226	10000	0.18
As	24	M11173	1000	1.2
Ba	1.8	M11052	1000	0.09
Be	0.6	M11239	1000	0.03
Ca	100	M11227	10000	0.5
Cd	2	M11242	1000	0.1
Co	4	M10561	1000	0.2
Cr	4	M11053	10000	0.02
Cu	7	M11051	10000	0.035
Fe	100	M11228	10000	0.5
Mg	40	M11228	10000	0.2
Mn	4	M11054	10000	0.02
Mo	7	M10560	1000	0.35
Ni	6	M10565	1000	0.3
Pb	4	M10869	10000	0.02
Sb	12	M11172	1000	0.6
Se	13	M11171	1000	0.65
Tl	15	M10566	1000	0.75
V	5	M11241	1000	0.25
Zn	10	M11240	10000	0.05

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 13-Apr

#M11279 1-4-13 JT
5% HCL, 5% HNO3

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	4	M11170	1000	0.2
Al	9.6	M11226	10000	0.048
As	32	M11173	1000	1.6
Ba	2	M11052	1000	0.1
Be	1.6	M11239	1000	0.08
Ca	56	M11227	10000	0.28
Cd	1.6	M11242	1000	0.08
Co	9.6	M10561	1000	0.48
Cr	5.6	M11053	10000	0.028
Cu	16	M11051	10000	0.08
Fe	72	M11228	10000	0.36
Mg	32	M11228	10000	0.16
Mn	6	M11054	10000	0.03
Mo	9.6	M10560	1000	0.48
Ni	4.8	M10565	1000	0.24
Pb	10	M10869	10000	0.05
Sb	32	M11172	1000	1.6
Se	16	M11171	1000	0.8
Tl	19	M10566	1000	0.95
V	3.2	M11241	1000	0.16
Zn	12	M11240	10000	0.06

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 4/13

[illegible]

#M11268 [illegible]
1-2-13
ICV Na, K
~~5% HCL 5% HNO3~~
dissolved

Initial Calibration Standard (ICV) Into 500 ml volumetric pipette 5 mls of #M10570 and #M11243 and bring up to mark with DI H2O. expires april 2013.

#M11269 01/03/13 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11270 01/03/13 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11271 01/03/13 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11270) into 100ml = 3.0ug/L Hg
#M11272 01/03/13 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11273 01/03/13 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11270) into 100ml = 0.2ug/L Hg
#M11274 01/03/13 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11275 01/03/13 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11276 01/03/13 LSF TCLP Extraction Fluid #1: 01/03/13 LSF Fill a 20L carboy w/19L D.I. H2O. ~~Into a 20L carboy add D.I. H2O~~ Add 114mL Glacial Acetic Acid (AB: 534) and 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05

Exp: 01/03/14

#M11277 1-4-13
5% HCL, 5% HNO3

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
K	500	M11243	10000	2.5
Na	600	M10570	10000	3

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 13-Apr

#M11263 12/27/12 SF
#M112664 12/27/12 SF

Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 7165) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M112665 12/28/12 SF Potassium Permanganate Soln: 50g potassium permanganate (#M9703) dissolved into 1000mL of D.I. H2O.
Exp: 06/28/13

#M112660 12-13
5% HNO3
5% HCl

MRL Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MRL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	20	M11170	1000	1
Al	400	M11228	10000	2
Ba	10	M11052	1000	0.5
Be	4	M11239	1000	0.2
Cd	5	M11242	1000	0.25
Co	10	M10561	1000	0.5
Cr	10	M11053	10000	0.05
Cu	10	M11051	10000	0.05
Mg	500	M11228	10000	2.5
Mn	10	M11054	10000	0.05
Mo	10	M10560	1000	0.5
Ni	10	M10565	1000	0.5
Pb	10	M10839	10000	0.05
Sb	20	M11172	1000	1
V	10	M11241	1000	0.5
Zn	10	M11240	10000	0.05
K	5000	M11243	10000	25
Na	1000	M10570	10000	5
As	20	M11173	1000	1
Ca	500	M11227	10000	2.5
Fe	300	M11228	10000	1.5
Se	20	M11171	1000	1
Tl	20	M10566	1000	1
Si	100	M10564	1000	5
B	20	M11205	1000	1
Li	20	M10567	1000	1
W	50	M10559	1000	2.5
Ti	10	M10709	1000	0.5
Sr	10	M10569	1000	0.5
Sn	50	M10562	1000	2.5
S	100	M10773	1000	5

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard. EX 4-13

#M11267 1-2-13 NAK working std

Working Standards for Sodium and Potassium; into seven, 200 ml volumetric flasks pipette from #M11245 and #M11244.

For the 0.5 mg/L std– 0.1 mls of each
1.0 mg/L std – 0.2 mls of each
5.0 mg/L std – 1.0 mls of each
10.0 mg/L std – 2.0 mls of each
50.0 mg/L std - 10.0 mls of each
100 mg/L std -20.0 mls each also used for Continuing Calibration Standard (CCV)
200 mg/L std -40.0 mls of each
Bring up to mark with DI H2O. Expires June 5 2014.

#M ~~11245~~ 11249 12/13/12 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11250 12/13/12 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11251 12/13/12 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11250) into 100ml = 3.0ug/L Hg
#M11252 12/13/12 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11253 12/13/12 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11250) into 100ml = 0.2ug/L Hg
#M11254 12/13/12 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11255 12/13/12 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 10075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11256 12/14/12 LSF NaCl Hydroxylamine sulfate Reagent: Dissolve 60g NaCl (#M9574) and 60g hydroxylamine sulfate (#M10210) in 500mL Milli-Q H_2O.

Exp: 06/14/13

#M11257 12/17/12 LSF TCLP Extraction Fluid #1: Fill a 20L Carboy W 1192 D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05.

Exp: 12/17/13

#M11258 12/27/12 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11259 12/27/12 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11260 12/27/12 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11259) into 100ml = 3.0ug/L Hg
#M11261 12/27/12 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11262 12/27/12 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M[illegible]) into 100ml = 0.2ug/L Hg

#M11241 12-10-12 ZA V 1000 mg/L CPI Lot # 12F1116 ex 6/14.

#M11242 12-10-12 ZA cal 1000 mg/L CPI Lot # 126063 ex 6/14.

#M11243 12-10-12 ZA K ~~1,000~~ 10000 mg/L CPI Lot # 12C112 ex 6/14.

#M11244 12-10-12 ZA K 1000 mg/L CPI Lot # 11G0006 ex 6/14.

#M11245 12-10-12 ZA Na 10,000 mg/L CPI Lot # 12C2163 ex 6/14.

#M11246 ZA 12-10-12 100,000 ug/L cal std remade with 20 mg/L ~~Lot~~ 1000 mg/L std #12-10-12.

ICAP Working Standards

5% HNO3 . 5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M11031(ex 8/13) and 1.0 mls of #M11085 (ex 09/13) into 1000 ml volumectric flask= 100 ug/L std
1000	10.0 mls of #M11031(ex 8/13) and #M11085 (ex 9/13) and 1 mL of #M10860 Si into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 mls #M11031 (ex 8/13),100 mls #M11085 (ex 9/13),
100k	10 mls of #M11051 Cu (ex 2/14) , 10 mls of #M11054 Mn (ex 2/14) , 10 mls of #M11053 Cr (ex 2/14), 10 mls #M10839 Pb (ex 10/13) 10 mls zn #M11240(ex 6-14 = 100,000 ug/L
100,000	10 mls of #M10899 Mg (ex 06/13) , 10 mls of #M10896 Fe (ex 11/13) ,10 mls of #M10898 Ca (ex 11/13),10 mls #M10897 AL (ex 11/13) , into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M10899 Mg (ex 11/13) , 50 mls of #M10896 Fe (ex 11/13) ,50 mls of #M10898 Ca (ex 11/13), 50 mls #M10897 AL (ex 2/13) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M10899 Mg (ex 06/13) , 100 mls of #M10896 Fe (ex 11/13) ,100 mls of #M10898 Ca (ex 11/13),100 mls #M10897 AL (ex 11/13) into 1000 ml vol flask = 1,000,000 ug/l std

Bring the 1000 ml volumetric up to mark with DI H2O

ex 8-13

#M11247 12-10-12 ZA

ICAP Working Standards Boron & Silicon

Standard name	Into 1 liter Pipet the following respectively:
10	0.1 mls of #M11031 and .01mls #M10860 = 10 ug/L
50	0.5 mls of #M11031 and .05mls #M10860 = 50 ug/L
100	1 mls of #M11031 and 0.1mls #M10860 = 100 ug/L
1000	10 mls of #M11031 and 1.0mls #M10860 = 1000 ug/L
10000	100 mls of #M11031 and 10mls #M10860 = 10000 ug/L

ex 8-13

#M11248 ZA 12-10-12

Initial Calibration Standard (ICV) B, Si

Into 1 liter vol fisk pipet 1 ml of #M11205 & M10564

bring up to mark with DI H2O ex 4/13

#M11247

Continuing Calibration Standard (CCV)

Into 1 liter vol flask pipet 10 mls of #M11205 and 1.0mls #M10860 = 1000 ug/L

bring up to mark with DI H20 ex 8-13

#M11224 12-3-12 Amco turb std. Lot # C254646 ex 11/13

#M11225 12-3-12 Interferents A std 5 pk Cont prep lot # 6-126 YP ex 11/13

#M11226 12-3-12 Al metal 10,000 ug/ml CPI Lot ~~AL190t~~ 12E211 ex 5/14

#M11227 12-3-12 Ca 10,000 ug/ml CPI Lot # 12I240 ex 5/14

#M11228 12-3-12 Fe 10,000 ug/ml CPI Lot # 12J195 ex 5/14

#M11229 12-3-12 Mg 10,000 ug/ml CPI Lot # 12F144 ex 5/14

#M11230 12/03/12 JF TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H2O. Add 114mL Glacial Acetic Acid (AB 534) and 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H2O and mix
Exp: 12/03/13 pH = 4.93 ± 0.05

#M11231 12/05/12 JF Potassium permanganate soln: 50g Potassium permanganate (#M9903) dissolve into 1000mL of D.I. H2O.
Exp: 06/05/13

#M11232 12/05/12 JF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11233 12/05/12 JF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11234 12/05/12 JF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11233) into 100ml = 3.0ug/L Hg
#M11235 12/05/12 JF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11236 12/05/12 JF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11233) into 100ml = 0.2ug/L Hg
#M11237 12/05/12 JF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11238 12/05/12 JF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11615) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11239 12-10-12 Be 1000 mg/L CPI Lot 12K081. ex 6/14.

#M11240 12-10-12 Zn 10,000 mg/L CPI Lot 12F097 ex 6/14.

2413

#M11212 11/21/12 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11209) into 100ml = 0.2ug/L Hg
#M11213 11/21/12 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11214 11/21/12 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11045) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11215 11/21/12 Nickel Nitrate Matrix Modifier (10,000 µg/ml) LOT # 24-19605OH, Alfa Aesar
AMA Exp. 11-2013

#M11216 11/28/12 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11217 11/28/12 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11218 11/28/12 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11217) into 100ml = 3.0ug/L Hg
#M11219 11/28/12 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11220 11/28/12 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11217) into 100ml = 0.2ug/L Hg
#M11221 11/28/12 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11222 11/28/12 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11045) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11223 12-3-12 ICP Working Stds.

Pipet the following respectively:

0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M11031(ex 8/13) and 1.0 mls of #M11085 (ex 09/13) into 1000 ml volumectric flask= 100 ug/L std
1000	10.0 mls of #M11031(ex 8/13) and #M11085 (ex 9/13) and 1 mL of #M10860 SI into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 mls #M11031 (ex 8/13),100 mls #M11085 (ex 9/13),
100k	10 mls of #M11051 Cu (ex 2/14) , 10 mls of #M11054 Mn (ex 2/14) , 10 mls of #M11053 Cr (ex 2/14), 10 mls #M10839 Pb (ex 10/13) = 100,000 ug/L
100,000	10 mls of #M10899 Mg (ex 06/13) , 10 mls of #M10896 Fe (ex 11/13) ,10 mls of #M10898 Ca (ex 11/13),10 mls #M10897 AL (ex 11/13) , into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M10899 Mg (ex 11/13) , 50 mls of #M10896 Fe (ex 11/13) ,50 mls of #M10898 Ca (ex 11/13), 50 mls #M10897 AL (ex 2/13) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M10899 Mg (ex 06/13) , 100 mls of #M10896 Fe (ex 11/13) ,100 mls of #M10898 Ca (ex 11/13),100 mls #M10897 AL (ex 11/13) into 1000 ml vol flask = 1,000,000 ug/l std
	Bring the 1000 ml volumetric up to mark with DI H2O

#M11197 11/13/12 SF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11198 11/13/12 SF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M11195) into 100ml = 0.2ug/L Hg

#M11199 11/13/12 SF — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11200 11/13/12 SF — Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11201 11/13/12 SF NaCl Hydroxylamine Sulfate Reagent: Dissolve 600g NaCl (#M9594) and 600g hydroxylamine sulfate (#M10210) in 500ml Milli-Q H2O.
Exp: 05/13/13

#M11202 11/16/12 SF Potassium permanganate Soln: 50g potassium permanganate (#M9903) dissolve into 1,000mL of D.I. H2O.
Exp: 05/16/13

#M11203 11-19-12 Custom Assurance Std. Spex Certiprep Lot# 16-236CR. ex 11/13
X-CTWI-5-500

#M11204 11-19-12 Custom Assurance Std. Spex Certiprep Lot 16-237CR - ex 11/13
X spike-1-250

#M11205 11-19-12 Boron 1000mg/L CPI Lot# R6092

#M11206 11-19-12 Y 10,000 mg/L Eno. Exp. Lot# 1208040 ex 5/2014

#M11207 11/20/12 SF TCLP Extraction Fluid #1: Fill a 20L carboy w/ 19L D.I. H2O. Add 114mL Glacial Acetic Acid (AB: 534) and 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H2O and mix. pH=4.93 ± 0.05
Exp: 11/20/13

#M11208 11/21/12 SF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11209 11/21/12 SF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11210 11/21/12 SF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M11209) into 100ml = 3.0ug/L Hg

#M11211 11/21/12 SF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11183 11-9-12 Env. Express 10,000 mg/L ex May 6 2014
Lot#1208040

#M11184 11-09-12 Magnesium Nitrate Matrix Modifier Solution (10,000 mg/L Mg)
AMA Environmental Express Lot No. 1214232, Expires 11-06-13

#M11185 11/08/12 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11186 11/08/12 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11187 11/08/12 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11186) into 100ml = 3.0ug/L Hg
#M11188 11/08/12 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11189 11/08/12 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11186) into 100ml = 0.2ug/L Hg
#M11190 11/08/12 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11191 11/08/12 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11192 ZA ICSA into 500ml vol pipet 50mls #M10868 + 15 mls #M10896
11-12-12 5% HNO3 Bring up to mark w/ DI H2O. ex 4/13.
5% HCL

#M11193 ZA ICSAB Na, K into 500ml vol pipet 50mls #M10868 5mls #M10896
5% HNO3, 5% HCL 5mls #M10837 95mls #M10570 Bring up to mark w/ DI H2O
ex 1/13.

#M11194 11/13/12 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11195 11/13/12 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11196 11/13/12 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11195) into 100ml = 3.0ug/L Hg

#M11197 11/13/12 SF
#M11198 11/13/12 SF
#M11199 11/13/12 SF
#M11200 11/13/12 SF
#M11201 11/13/12 SF
Exp: 05
#M11202 11/16/12 SF
#M11203 11-19 ZA
#M11204 11- ZA
#M11205 11-1
#M11206 11-1

#M11169 11/01/12 13F TCLP Extraction Fluid #1: Fill a 20L carboy w/19L DI. H_2O. Add 114mL Glacial Acetic Acid (AB 534) and 128.6mL 10N NaOH (#M11136). Dilute to 20L with DI. H_2O and mix. pH = 4.93 ± 0.05

Exp: 11/01/13

#M11170 11/02/12 Ag 1000 µg/mL CPI LOT NO. 11E160 Exp. 04/24/2014
AMA

#M11171 11/02/12 Se 1000 µg/mL CPI LOT NO. 123054 Exp. 04/24/2014
AMA

#M11172 11/02/12 Sb 1000 µg/mL CPI LOT NO. 12E115 Exp. 04/24/2014
AMA

#M11173 11/02/12 As 1000 µg/mL CPI LOT NO. 121034 Exp. 04/24/2014
AMA

INO3 (AB: 554)

Chloride (#M11675) in

0. Add 114mL
and 128.6mL
L with DI. H_2O

. H_2O to mark
5 with M10563.

#M11174 11/06/12 13F to 11/06/12 13F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11175 11/06/12 13F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11176 11/06/12 13F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11175) into 100ml = 3.0ug/L Hg
#M11177 11/06/12 13F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11178 11/06/12 13F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11175) into 100ml = 0.2ug/L Hg
#M11179 11/06/12 13F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11180 11/06/12 13F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11675) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

IO3 (AB: 554)

hloride (#M 11675 in

#M11181 11/07/12 13F Potassium permanganate Soln: 50g potassium permanganate (#M9903) dissolve into 1,000mL of DI. H_2O.
Exp: 05/07/13

(#M 9574)
Sulfate (#M 6210)
H_2O.

#M11182 11/07/12 13F Potassium persulfate: 50g potassium persulfate (#M10573) dissolve into 1,000mL DI. H_2O.
Exp: 05/07/13

#M11156 10/24/12 13F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11155) into 100ml = 3.0ug/L Hg
#M11157 10/24/12 13F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11156 10/24/12 13F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11155) into 100ml = 0.2ug/L Hg
#M11157 10/24/12 13F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11158 10/24/12 13F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11158 9 10/25/12 13F 10/25/12 13F TCLP Extraction Fluid #1: Fill a 20L carboy w/ 18L D.I. H2O. Add 114mL Glacial Acetic Acid (AB.534) and 128.6mL 16N NaOH (#M10910). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05

Exp: 10/25/13

#M11160 10/25/12 13F SPLP Extraction Fluid #1: Into a 20L carboy add D.I. H2O to mark and adjust pH to 4.20 ± 0.05 with M10857.

Exp: 04/25/13

#M11161 10/31/12 13F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml = 5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11162 10/31/12 13F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11163 10/31/12 13F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11162) into 100ml = 3.0ug/L Hg
#M11164 10/31/12 13F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11165 10/31/12 13F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11162) into 100ml = 0.2ug/L Hg
#M11166 10/31/12 13F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11167 10/31/12 13F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11168 10/31/12 13F NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M 9574) and 60g hydroxylamine Sulfate (#M 6210) in 500mL Milli-Q H2O.

Exp: 04/31/13

#M11169 11/06/12 13

#M11170 11/02/12 A
AMA

#M11171 11/02/12 SC
AMA

#M11172 11/02/12 SD
AMA

#M11173 11/02/12 AS
AMA

#M11174 11/06/12 13F

#M11175 11/06/12 13F

#M11176 11/06/12 13F

#M11178 11/06/12 13F

#M11179 11/06/12 13F

#M11180 11/06/12 13F

#M11181 11/07/12 13F
Exp: 0

#M11182 11/07/12 13F
Exp: 0

#M11144 10/18/12 15F NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574) and 60g hydroxylamine sulfate (#M10210) in 500mL Milli-Q H_2O.
Exp: 04/18/13

#M11145 10/19/12 15F Sodium Hydroxide - Fisher scientific lot#122989 3kg

#M11146 10/23/12 AMA GFAA Base Std. (25µg/L) - Pipet 25mL of #M10818 into a 1L vol. flask and bring (1% HNO_3) up to volume with Milli-Q H_2O. Exp. 04/01/13

#M11147 10/23/12 AMA GFAA Alt. Source Std. (10µg/L) - Pipet 50mL of #M10819 into a 1L vol. flask and (1% HNO_3) bring up to volume with Milli-Q H_2O. Exp. 04/01/13

#M11148 10/23/12 AMA GFAA CCV Std. (10µg/L) - Pipet 10mL of #M10818 into a 1L vol. flask and bring (1% HNO_3) up to volume with Milli-Q H_2O. Exp. 04/01/13

#M11149 10/23/12 AMA GFAA Stability check working standard - Into a 250mL vol. flask, pipet the (1% HNO_3) following and bring up to volume with D.I. H_2O. Exp. 11/25/12
0.6mL of 1000mg/L As (#M10281)
0.04mL of 10,000mg/L Pb (#M10839)
1.7mL of 1000mg/L Se (#M10277)
0.9mL of 1000mg/L Sb (#M10280)
0.4mL of 1000mg/L Tl (#M10566)
0.07mL of 1000mg/L Ag (#M10310)

#M11150 10/23/12 AMA GFAA Stability check standard - Pipet 5mL of #M11149 into a 1L vol. flask and bring (1% HNO_3) up to volume with D.I. H_2O. Exp. 11/25/12

#M11151 10/23/12 AMA Pd/Mg Modifier - Into a 50mL vol. flask, pipet 15mL #M10726 and 5mL #M10551. Bring up to volume with Milli-Q H_2O. Exp. 10/30/12

#M11152 10/23/12 AMA $Ni(NO_3)_2$ Modifier - Into a 100mL vol. flask, pipet 20mL $Ni(NO_3)_2$ (#M9853) and bring up to volume with Milli-Q H_2O.

#M11153 10/24/12 15F Potassium permanganate Sol'n: 50g potassium permanganate (#M9803) dissolve into 1,000mL of D.I. H_2O.
Exp: 04/24/13

#M11154 10/24/12 15F

Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11155 10/24/12 15F

Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11129 10/10/12 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11128) into 100ml = 3.0ug/L Hg
#M11130 10/10/12 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11131 10/10/12 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11128) into 100ml = 0.2ug/L Hg
#M11132 10/10/12 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11133 10/10/12 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11134 10/10/12 SF Potassium permanganate Soln: 50g Potassium permanganate (#M9903) dissolve into 1,000ml of D.I. H_2O.
Exp: 04/10/13

#M11135 10/15/12 SF TCLP Extraction Fluid #1: Fill a 20L Carboy w 19L D.I. H_2O. Add 114ml Glacial Acetic Acid (AB.534) and 128.6ml 10N NaOH (#M10910). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 10/15/13

#M11136 10/17/12 SF 10N NaOH: Into a 1L vol. flask add 400g NaOH (#M10571) and bring up to volume with D.I. H_2O.
Exp: 10/17/13

#M11137 10/18/12 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11138 10/18/12 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11139 10/18/12 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11138) into 100ml = 3.0ug/L Hg
#M11140 10/18/12 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11141 10/18/12 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11138) into 100ml = 0.2ug/L Hg
#M11142 10/18/12 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11143 10/18/12 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11075) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11144 10/18/12 SF
Exp

#M11145 10/19/12 SF

#M11146 10/23/12 GFA
AMA

#M11147 10/23/12 GFA
AMA

#M11148 10/23/12 GFA
AMA

#M11149 10/23/12 GFA
AMA

#M11150 10/23/12 GFA
AMA

#M11151 10/23/12 PAN
AMA

#M11152 10/23/12 NaNO
AMA

#M11153 10/24/12 SF Pc
Exp:

#M11154 10/24/12 SF

#M11155 10/24/12 SF

Page

#M11117 10-2-12 Turbidity working stds. into 20mls pipet from #M11115
A (200 NTU)

6el Std =
4.00 NTU — 2.0 mL into 18 mL D.I. H_2O = 20NTU
48.9 NTU — 10 mL into 10 mL D.I. H_2O = 100NTU
525 NTU — 20 mL into 0 mL DI H_2O = 200NTU
(Exp Aug 2014).

#M11118 10/02/12 LSF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11119 10/02/12 LSF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11120 10/02/12 LSF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 11119) into 100ml = 3.0ug/L Hg

#M11121 10/02/12 LSF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11122 10/02/12 LSF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M11119) into 100ml = 0.2ug/L Hg

#M11123 10/02/12 LSF — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11124 10/02/12 LSF — Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 11015) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11125 10/04/12 LSF — Potassium persulfate: 50g potassium persulfate (#M10573) dissolve into 1000mL D.I. H_2O.
Exp: 01/04/13

#M11126 10/09/12 LSF — TCLP Extraction Fluid #1: Fill a 20L Carboy w/19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB 534) and 128.6mL 6N NaOH (#M10910). Dilute to 20L with D.I. H_2O and mix. pH 4.93 ± 0.05
Exp: 10/09/13

#M11127 10/10/12 LSF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11128 10/10/12 LSF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11104 09/24/12 LSF TCLP Extraction Fluid #1: Into a 20L carboy pour [illegible] Glacial Acetic Acid (AB: [illegible]) 128.6mL 10N NaOH (#M10910) [illegible] to 20L with D.I. H_2O [illegible]
Exp: 09/24/13 pH = 4.93 ± 0.05

#M11105 09/25/12 LSF NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M[illegible]) and 60g hydroxylamine [illegible] (#M10210) in 500mL [illegible]
Exp: 03/25/13

#M11106 09/26/12 LSF Potassium Permanganate Sol'n: 50g potassium permanganate (#M[illegible]) dissolve into 1,000mL of D.I. H_2O
Exp: 03/26/13

#M11107 09/26/12 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11108 09/26/12 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11109 09/26/12 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11108) into 100ml = 3.0ug/L Hg
#M11110 09/26/12 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11111 09/26/12 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11108) into 100ml = 0.2ug/L Hg
#M11112 09/26/12 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO_3 (AB: [illegible])
#M11113 09/26/12 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride [illegible] in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11114 09/28/12 LSF Stannous Chloride (Macron) ~ Lot NO. 0000017703 Exp 11/24/14

#M11115 9-28-12 Stabl Cal Standard, 200 NTU Lot A2216 ex Aug 2014

#M11116 09/28/12 LSF TCLP Extraction Fluid #1: Into a 20L carboy [illegible] Acetic Acid (AB: 553) [illegible] (#M10910). Dilute to 20L with [illegible] mix. pH = 4.93 ± 0.05
Exp: 09/28/13

#M11093 [illegible]

>b (ex 10/13)

)7 AL (ex 11/13) ,
,000 ug/l std
97 AL (ex 2/13)

v110897 AL (ex 11/13)

#M11094 09/19/12 CSF — Hg CCV (0.2% HNO3, HCl): 1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg; 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg; 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11095 09/19/12 CSF — Hg MRL: (0.2% HNO3, HCl): 0.2ml of 100ug/L Hg (#M11092) into 100ml = 0.2ug/L Hg

#M11096 09/19/12 CSF — Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11097 09/19/12 CSF — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11057) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11098 09-21-12 AMA — GFAA LOD/LOQ soil working std: Into a 200mL vol. flask, partially filled with D.I. H_2O, pipet the following and bring up to volume with D.I. H_2O. (1% HNO_3) Exp. 11-25-12
1.2 mL Sb 1000mg/L (#M10280) = 6,000 µg/L Sb
3.2 mL As 1000mg/L (#M10281) = 16,000 µg/L As
3.2 mL Se 1000mg/L (#M10277) = 16,000 µg/L Se
0.08 mL Pb 10,000mg/L (#M10839) = 4,000 µg/L Pb
1.0 mL Tl 1000mg/L (#M10566) = 5,000 µg/L Tl

#M11099 09-21-12 AMA — GFAA LOD/LOQ soil spiking soln: Into a 1L vol. flask, pipet 10mL of #M11098 and bring up to volume with D.I. H_2O. (1% HNO_3) Exp. 11-25-12

#M11100 09-21-12 AMA — GFAA LOD/LOQ soil Ag working std: Into a 200mL vol. flask, partially filled with D.I. H_2O, pipet the following and bring up to volume with D.I. H_2O. (1% HNO_3) Exp. 12-8-12
0.12mL Ag 1000mg/L (#M10310) = 600 µg/L Ag

#M11101 09-21-12 AMA — GFAA LOD/LOQ soil Ag spiking soln: Into a 1L vol. flask, pipet 10mL of #M11100 and bring up to volume with D.I. H_2O. (1% HNO_3) Exp. 12-8-12

#M11102 09-21-12 AMA — GFAA LOD/LOQ water working std: Into a 100mL vol. flask, partially filled with D.I. H_2O, pipet the following and bring up to volume with D.I. H_2O. (1% HNO_3) Exp. 11-25-12
1.5mL Sb 1000mg/L (#M10280) = 15,000 µg/L Sb
1.0mL As 1000mg/L (#M10281) = 10,000 µg/L As
2.0mL Se 1000mg/L (#M10277) = 20,000 µg/L Se
0.045mL Pb 10,000mg/L (#M10839) = 4500 µg/L Pb
0.4mL Tl 1000mg/L (#M10566) = 4000 µg/L Tl
0.1mL Ag 1000mg/L (#M10310) = 1000 µg/L Ag

#M11103 09-21-12 AMA — GFAA LOD/LOQ water spiking soln: Into a 1L vol. flask, pipet 10mL of #M11102 and bring up to volume with D.I. H_2O. (1% HNO_3) Exp. 11-25-12

ls. #M10868 &
do mark with DI.

Glacial Acetic Acid
(#M10910). Dilute to
= 4.93 ± 0.05

pipet 114 mL of
2H (#M10910).
= 4.93 ± .05.

ml=10mg/L Hg
ig
ig
ig
ig
ig
l
- Hg

l = 10mg/L Hg

ml = 3.0ug/L Hg

#M11086 cont...

100k	10 mls of #M11051 Cu (ex 2/14) , 10 mls of #M11054 Mn (ex 2/14) , 10 mls of #M11053 Cr (ex 2/14), 10 mls #M10839 Pb (ex 10/13) 10 mls #M10284 Zn (ex 11/12) = 100,000 ug/L
100,000	10 mls of #M10899 Mg (ex 06/13) , 10 mls of #M10896 Fe (ex 11/13) ,10 mls of #M10898 Ca (ex 11/13),10 mls #M10897 AL (ex 11/13) 10 mls #M10570 Na (ex 4/13),10 mls #m10570 Na (ex 3/13), 10 mls #m10667 K (ex 6/13) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M10899 Mg (ex 11/13) , 50 mls of #M10896 Fe (ex 11/13) ,50 mls of #M10898 Ca (ex 11/13), 50 mls #M10897 AL (ex 2/13) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M10899 Mg (ex 06/13) , 100 mls of #M10896 Fe (ex 11/13) ,100 mls of #M10898 Ca (ex 11/13),100 mls #M10897 AL (ex into 1000 ml vol flask = 1,000,000 ug/l std

Bring the 1000 ml volumetric up to mark with DI H2O

#M11087 9-17-12 ZA 5% HCl 5% HNO3

Continuing Calibration Standard 1(CCV1)

Into a one liter volmetric flask pipet 50mls of # M11031 (ex 8/13) and 5 ml of #M11085 (ex 09/13).
ex.nov 8/13
Bring up to mark with DI H2O

Continuing Calibration Standard 2(CCV2)

Into a one liter volmetric flask pipet 5 mls of # M11031 (ex 8/13) and 0.5 ml of #M11085 (ex 09-13).
ex.nov 8/13
Bring up to mark with DI H2O

#M11088 ICSAB 9-17-12 ZA into 500 ml vol flask pipet 50mls #M10868 2.5mls #M11031 & #M11085. Bring up to mark with H_2O ex 4/13.

#M11089 09/17/12 SF Exp: 09/17/13 TCLP Extraction Fluid #1: Into a 20L carboy pipet 114mL Glacial Acetic (AB534) and 128.6mL 10N NaOH (#M10910) Dilute 20L with DI H_2O and mix pH = 4.93 ± 0.05

#M11090 9-18-12 ZA ex 9/18/13 TCLP Extraction fluid #1 into 20L carboy pipet 114mL Glacial Acetic Acid (AB.534) & 128.6 mL 10N NaOH (#M10910) Dilute to 20L with DI H_2O and mix pH = 4.93 ± .05

#M11091 09/19/12 SF

Hg Working Stds: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11092 09/19/12 SF

Hg Alt Source Working Std: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11093 09/19/12 SF

Hg ICV / LCSW (0.2% HNO3, HCl)

3.0ml of 100ug/L Hg (#M11092) into 100ml = 3.0ug/L Hg

#M11076 09/11/12 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11077 09/11/12 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11078 09/11/12 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11077) into 100ml = 3.0ug/L Hg
#M11079 09/11/12 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11080 09/11/12 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11077) into 100ml = 0.2ug/L Hg
#M11081 09/11/12 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11082 09/11/12 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M11045) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11083 09/11/12 LSF NaCl Hydroxylamine sulfate Reagent: Dissolve 60g NaCl (#9574) and 60g hydroxylamine sulfate (#M10210) in 500mL milli-Q H_2O.
Exp: 03/11/13

#M11084 09/17/12 LSF Potassium Permanganate Sol'n: 50g Potassium permanganate (#M9903) dissolve into 1,000mL of D.I. H_2O.
Exp: 03/17/13

#M11085 9-17-12 Custom Assurance std Spex Certiprep lot # ~~XCT219120~~
15-182CR ex 9-15-13 :

#M11086 9-17-12

ICAP Working Standards

5% HNO3 5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M10837(ex 3/13) and 1.0 mls of #M11085 (ex 09/13) into 1000 ml volumectric flask= 100 ug/L std
1000	10.0 mls of #M10837(ex 4/13) and #M11085 (ex 9/13) and 1 mL of #M10564 Si into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 mls #M10837 (ex 4/13),10 mls #M10568 Be (ex 4/13),10 mls #M10278 Cd (ex 11/12)

P
mL Glacial
86mL 10M NaOH
D.I. H_2O and

6

#M11086 Cont....

#M11071 09/07/12 LSF

5% HNO_3
5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	10	M10567	1000	0.5
Sn	10	M10567	1000	0.5
Sr	2	M10569	1000	0.1
Ti	8	M10709	1000	0.4
W	36	M10559	1000	1.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 04/20/13

#M11072 09/07/12 LSF

5% HNO_3
5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
K	500	M10664	10000	2.5
Na	600	M10570	10000	3

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 04/20/13

#M11073 09/07/12 LSF

5% HNO_3
5% HCL

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	16	M10735	1000	0.8
Si	200	M10860	1000	10

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 11/25/12

#M11074 09/10/12 LSF TCLP Extraction Fluid #1: Into a 20L carboy pipet 11.9 mL Glacial Acetic Acid (AB5341) and 28.6 mL 1N NaOH (#M10910). Dilute to 20L with DI water. mix. pH = 4.93 ± 0.05

Exp: 09/10/13

#M11075 09/10/12 LSF Stannous Chloride (JT Baker) - Lot No. 0000005796
Exp: 03/29/17

ous Chloride (#M 0885) in
'ater.

ng up to

L) to
1 L

eate a
rking

(mL) to
nto 1 L
72
16
48
2

create a
working

#M11067 09/07/12 LSF

5% HNO_3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
K	2640		10000	13.2
Na	960		10000	4.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 04/20/13

M11068 @ 9-7-12
ICV List 2. Into 1 Liter volumetric flask.
5% HCl pipet 1 ml of #M10709 #M11056, #M10567, #M10562, #M10569
5% HNO_3 Bring up to mark with DI H_2O. = 1000 ug/L List 2 ex April 20, 2013.

#M11069 09/07/12 LSF

5% HNO_3
5% HCL

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	52	M10735	1000	2.6
Si	192	M10860	1000	9.6

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 11/25/12

#M11070 09/07/12 LSF

5% HNO_3
5% HCL

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	4	M10310	1000	0.2
Al	36	M10630	10000	0.18
As	24	M10781	1000	1.2
Ba	1.8	M11052	1000	0.09
Be	0.6	M10568	1000	0.03
Ca	100	M10669	10000	0.5
Cd	2	M10778	1000	0.1
Co	4	M10561	1000	0.2
Cr	4	M11053	10000	0.02
Cu	7	M11051	10000	0.035
Fe	100	M10896	10000	0.5
Mg	40	M10663	10000	0.2
Mn	4	M11054	10000	0.02
Mo	7	M10560	1000	0.35
Ni	6	M10565	1000	0.3
Pb	4	M10929	10000	0.02
Sb	12	M10790	1000	0.6
Se	13	M10791	1000	0.65
Tl	15	M10566	1000	0.75
V	5	M10565	1000	0.25
Zn	10	M10789	10000	0.05

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 11/25/12

#M11063 09/04/12 LSF

Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride [illegible] 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11064 09/05/12 $NiNO_3$ Modifier - Into a 100mL vol. Flask, pipet 20mLs $NiNO_3$ (M9853) and bring up to volume with Milli-Q H_2O.
AMA

#M11065 09/07/12 LSF 3050 LOQ ✓

5% HNO_3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mls) pipet into flask
Ag	4	M10310	1000	0.2
Al	9.6	M10670	10000	0.048
As	32	M10781	1000	1.6
Ba	2	M11052	1000	0.1
Be	1.6	M10569	1000	0.08
Ca	56	M10669	10000	0.28
Cd	1.6	M10788	1000	0.08
Co	9.6	M10561	1000	0.48
Cr	5.6	M11053	10000	0.028
Cu	16	M11051	10000	0.08
Fe	72	M10671	10000	0.36
Mg	32	M10668	10000	0.16
Mn	6	M11054	10000	0.03
Mo	9.6	M10560	1000	0.48
Ni	4.8	M10565	1000	0.2
Pb	10	M10871	10000	0.05
Sb	32	M10780	1000	1.6
Se	16	M10797	1000	0.8
Tl	19	M10566	1000	0.95
V	3.2	M10785	1000	0.16
Zn	12	M10788	10000	0.06

Of this Base standard, pipet 10 mls into 500 ml volumetric to create working std or 1 ml into 50 ml digestion tube for a digestate spike standard.

Expires: 11/25/12

M11066 09/07/12 #M LSF 09/07/12 LSF 3050 LOQ ✓

5% HNO_3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mls) pipet into flask
Li	14.4	M10567	1000	0.72
Sn	20	M10562	1000	1
Sr	3.2	M10563	1000	0.16
Ti	9.6	M10709	1000	0.48
W	24	M10559	1000	1.2

Of this Base standard, pipet 10 mls into 500 ml volumetric to create working std or 1 ml into 50 ml digestion tube for a digestate spike standard.

Expires: 04/30/13

rtiprep Lot#

. Hg

. Hg

L Hg

- Hg

L Hg

art HNO3 (AB: 554)

ous Chloride (#M 10985) in
/ater.

Glacial Acetic
10 N NaOH (#M 10910)
O and mix

to 100ml=10mg/L Hg
)ug/L Hg
5ug/L Hg
)ug/L Hg
)ug/L Hg
)ug/L Hg
ug/L Hg
0.0ug/L Hg

100ml = 10mg/L Hg
/L Hg

o 100ml = 3.0ug/L Hg

to 100ml=10mg/L Hg
)ug/L Hg
)ug/L Hg

o 100ml = 0.2ug/L Hg

#M11046 08/24/12 13F
#M11047 08/24/12 15F

Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M10985) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11048 TCLP Soln #1: Into a 20L Carboy pipet 114 mls Glacial Acetic Acid (AB.534) and 128.6 mL 10N NaOH (#M10910). Dilute to 20L with DI H_2O And mix pH = 4.93 ± .0
D 8-26-12

#M11049 08/27/12 15F Potassium persulfate soln: 50g potassium persulfate (#M10573) dissolve into 1,000mL DI. H_2O.
Exp: 02/27/13

#M11050 08/27/12 15F Potassium permanganate soln: 50g potassium permanganate (#M9903) dissolve into 1,000mL of DI. H_2O.
Exp: 02/27/13

#M11051 08-28-12 CPI Cu 10,000mg/L Lot# 12G118 ex Feb 22, 2014.
D

#M11052 08-28-12 CPI Ba, 1000mg/L Lot # 12G245 ex Feb 22, 2014.
D

#M11053 D 08-28-12 CPI Cr, 10,000 mg/L Lot # 11K059 ex Feb, 22 2014.

#M11054 D 8-28-12 CPI Mn 10,000mg/L Lot # 11L109 ex Feb 22, 2014

#M11055 D 8-30-12 Spex Certiprep Custom Assurance Std Lot # 15-153CR ex Aug 30, 2013.

#M11056 8-30-12 SCP Science Tungsten 1000ug/L ex. 12/13
D

#M11057 09/04/12 15F

Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M11058 09/04/12 15F

Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M11059 09/04/12 15F

Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 11058) into 100ml = 3.0ug/L Hg

#M11060 09/04/12 15F

Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M11061 09/04/12 15F

Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M 11058) into 100ml = 0.2ug/L Hg

#M11062 09/04/12 15F

Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)

#M11031 # 8-17-12 Custom Assurance Std Spex Lot#
8-12224P - ex Aug 15, 2013

#M11032 08/20/12 15F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11033 08/20/12 15F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11034 08/20/12 15F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11033) into 100ml = 3.0ug/L Hg
#M11035 08/20/12 15F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11036 08/20/12 15F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11033) into 100ml = 0.2ug/L Hg
#M11037 08/20/12 15F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1 part HNO3 (AB: 55[illegible]
#M11038 08/20/12 15F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride, [illegible] 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11039 08/23/12 13F (Fisher) Hydroxylamine Sulfate Lot#116718 Exp: 08/23/13

#M11040 08/23/12 15F TCLP Extraction Fluid #1: Into a 20L carboy pipet 114ml Glacial Acetic Acid (AB: 534) and 128ml 50% NaOH. Dilute to 20L with DI Water. pH=4.93 ± 0.05
Exp: 08/23/13

#M11041 08/24/12 15F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11042 08/24/12 15F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11043 08/24/12 15F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 11042) into 100ml = 3.0ug/L Hg
#M11044 08/24/12 15F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11045 08/24/12 15F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11042) into 100ml = 0.2ug/L Hg

#M11016 08/06/12. AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11013) into 100ml = 0.2ug/L Hg
#M11017 08/06/12 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11018 08/06/12 AMA	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 10985) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11019 08/07/12SF TCLP Extraction Fluid #1: Into a 20L Carboy pipet 114mL Glacial Acetic Acid (AB,534) and 128.6mL 10N NaOH (#M10910). Dilute to 20L w/D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 08/07/13

#M11020 8-8-12 Custom Assurance Std, Spex Certiprep Lot # 8-97PP ex Aug 2013
JA

#M11021 08/09/12SF Potassium Permanganate Sol'n: 50g potassium permanganate (#M9903) dissolve into 1,000mL of D.I. H_2O.
Exp: 02/09/13

#M11022 08/09/12 Pd/Mg Modifier - Into a 50mL vol. flask, pipet 15mL #M10726 and 5mL #M10551. Bring up to volume with Milli-Q H_2O. Exp. 10-30-12
AMA

#M11023 08/10/12SF NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M8574) and 60g hydroxylamine sulfate (#M10210) in 500mL Milli-Q H_2O.
Exp: 02/10/13

#M11024 08/13/12SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11025 08/13/12SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11026 08/13/12SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11025) into 100ml = 3.0ug/L Hg
#M11027 08/13/12SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11028 08/13/12SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 11025) into 100ml = 0.2ug/L Hg
#M11029 08/13/12SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 553) with 1part HNO3 (AB: 554)
#M11030 08/13/12SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M 10985) in 70 mL HCl (AB: 553). Bring up to volume with D.I. Water.

#M11002 07/23/12SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M11003 07/23/12SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M6[illegible]) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M11004 07/26/12SF TCLP Extraction Fluid #1: Into a 20L carboy pipet 114mL Glacial Acetic Acid (AB-534) and 128.6mL 10N NaOH (#10910). Dilute to 20L with DI H2O and mix. pH = 4.93 ± 0.05

Exp: 07/26/13

#M11005 07/30/12SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11006 07/30/12SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11007 07/30/12SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11006) into 100ml = 3.0ug/L Hg
#M11008 07/30/12SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M11009 07/30/12SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M11006) into 100ml = 0.2ug/L Hg
#M11010 07/30/12SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
07/30/12SF #M11011 07/30/12SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10985) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.
#M11012 08/06/12 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M11013 08/06/12 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M11014 08/06/12 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M11013) into 100ml = 3.0ug/L Hg
#M11015 08/06/12 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M10987 07/12/12 I5F Potassium Persulfate ~~sdn: 50g potas~~ 07/12/12 I5F 07/12/12 I5F Lot NO: 117410 Exp: 07/12/13

#M10988 07/16/12 I5F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10989 07/16/12 I5F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10990 07/16/12 I5F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10989) into 100ml = 3.0ug/L Hg
#M10991 07/16/12 I5F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10992 07/16/12 I5F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10989) into 100ml = 0.2ug/L Hg
#M10993 07/16/12 I5F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10994 07/16/12 I5F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10985) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10995 07/17/12 I5F TCLP Extraction Fluid #1: Into a 20L carboy pipet 114mL Glacial Acetic Acid (AB.534) and 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 07/17/13

#M10996 07/20/12 I5F Potassium permanganate sdn: 50g potassium permanganate (#M9903) dissolve into 1,000mL of D.I. H_2O.
Exp: 01/20/13

#M10997 07/23/12 I5F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
[illegible]	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
[illegible]	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10998) into 100ml = 3.0ug/L Hg
[illegible]	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
[illegible]	Hg MRL:	0.2ml of 100ug/L Hg (#M10998) into 100ml = 0.2ug/L Hg

#M10976 07/09/12 LSF Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)

#M10977 07/09/12 LSF Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M 10883) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10978 07/09/12 LSF Potassium persulfate soln: 50g potassium persulfate (#M10573) dissolve into 1000mL D.I. H_2O.
Exp: 01/09/13

#M10979
7-10-12

ICAP Working Standards List 2

.5% HNO3 .5%HCL

Standard name	Pipet the following respectively:
1	0.01 mls of #M10837 and .001mls #M10559 = 1 ug/L
10	0.10 mls of #M10837 and .01mls #M10559 = 10 ug/L
100	1 mls of #M10334 and 0.1mls #M10559 = 100 ug/L
1000	10 mls of #M10334 and 1.0mls #M10559 = 1000 ug/L
10000	100 mls of #M10334 and 10mls #M10559 = 10000 ug/L

ex3-13

#M10980 7-10-12

Initial Calibration Standard (ICV) List 2

Into 1 liter vol flsk pipet 1 ml of #M10567,M10562,M10569,M10709, and M9930
bring up to mark with DI H2O ex 8/12

#M10981 7-10-12

Continuing Calibration Standard (CCV)

into 1 liter vol flask pipet 10 mls of #M10837 and 1.0mls #M10559 = 1000 ug/L
bring up to mark with DI H20 ex 3-13

#M10982 07-10-12 AMA GFAA LOD/LOQ soil Working std: Into a 200mL vol. flask, partially filled with D.I. H_2O, pipet the following and bring up to volume with D.I. H_2O.
(1% HNO_3)
Exp. 11/25/12
1.2mL Sb 1000mg/L (#M10280) = 6,000 µg/L Sb
3.2mL As 1000mg/L (#M10281) = 16,000 µg/L As
3.2mL Se 1000mg/L (#M10277) = 16,000 µg/L Se
0.08mL Pb 10,000mg/L (#M10839) = 4,000 µg/L Pb
1.0mL Tl 1000mg/L (#M10566) = 5,000 µg/L Tl
0.12mL Ag 1000mg/L (#M10310) = 600 µg/L Ag

#M10983 07-10-12 AMA GFAA LOD/LOQ soil Spiking soln: Into a 1L vol. flask, pipet 10mL of #M10982 and bring up to volume with D.I. H_2O.
(1% HNO_3)
Exp. 11/25/12

#M10984 07/10/12 LSF Elektrolyte - Lot NO.: 1W350A Exp: 12/16/14

#M10985 07/11/12 LSF Stannous Chloride - Lot NO. K475 88 Exp: 07/11/13

#M10986 07/12/12 LSF NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl [illegible] hydroxylamine [illegible]

#M10962 06/29/12 13F Potassium permanganate Sol'n: 50g potassium permanganate (#M9903) dissolve into 1,000mL of D.I. H_2O.
Exp: 12/29/12

#M10963 06/29/13 13F TCLP Extraction Fluid #1: Into a 20L carboy pipet 114mL Glacial Acetic Acid (AB.534) and 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 06/29/13

#M10964 07/02/13 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10965 07/02/13 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10966 07/02/13 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10965) into 100ml = 3.0ug/L Hg
#M10967 07/02/13 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10968 07/02/13 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10965) into 100ml = 0.2ug/L Hg
#M10969 07/02/13 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10970 07/02/13 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M 10241) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.
#M10971 07/09/13 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10972 07/09/13 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10973 07/09/13 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10972) into 100ml = 3.0ug/L Hg
#M10974 07/09/13 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10975 07/09/13 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10972) into 100ml = 0.2ug/L Hg

#M10954 06/25/12 SF — Hg MRL: (0.2% HNO3, HCl) — 0.2ml of 100ug/L Hg (#M 10951) into 100ml = 0.2ug/L Hg

#M10955 06/25/12 SF — Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 537) with 1 part HNO3 (AB: 536)

#M10956 06/25/12 SF — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M10[illegible]) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water

#M10957 06/25/12 SF NaCl Hydroxylamine Sulfate Reagent: Dissolve 600g NaCl (#M[illegible]) and hydroxylamine sulfate (#M10[illegible]) in 2L of D.I. H2O. Mill 1-2 H2O.
Exp: 12/25/12

#M10958 6-27-12

ICAP Working Standards

5% HNO3 5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M10837(ex 3/13) and 1.0 mls of #M10470 (ex 09/12) into 1000 ml volumetric flask= 100 ug/L std
1000	10.0 mls of #M10837(ex 4/13) and 1.0 ml of #M10310 Ag, #M10568 Be,#M10278 Cd and #M10564 Si into 1000 ml volumetric flask = 1000 ug/L std
10,000	100 mls #M10837 (ex 4/13),10 mls #M10568 Be (ex 4/13),10 mls #M10278 Cd (ex 11/12)
100k	10 mls of #M10144 Cu (ex 9/12) , 10 mls of #M10141 Mn (ex 9/12) , 10 mls of #M10139 Cr (ex 9/12), 10 mls #M10889 Fe (ex 9/12)
	10 mls #M10284 Zn (ex 09/12) = 100,000 ug/L
100,000	10 mls of #M10899 Mg (ex 06/13) , 10 mls of #M10896 Fe (ex 11/13) ,10 mls of #M10898 Ca (ex 11/13),10 mls #M10897 Al (ex 11/13)
	10 mls #M10570 Na (ex 4/13),10 mls #m10570 Na (ex 3/13), 10 mls #m10667 K (ex 6/13) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M10899 Mg (ex 11/13) , 50 mls of #M10896 Fe (ex 11/13) ,50 mls of #M10898 Ca (ex 11/13), 50 mls #M10897 Al (ex 11/13)
	into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M10899 Mg (ex 06/13) , 100 mls of #M10896 Fe (ex 11/13) ,100 mls of #M10898 Ca (ex 11/13),100 mls #M10897 Al (ex 11/13)
	into 1000 ml vol flask = 1,000,000 ug/l std
	Bring the 1000 ml volumetric up to mark with DI H2O

#M10959 ICV/LCSW Into 1 Liter vol flask pipet 10mls #M10837 [illegible] 6-27-12 #M10856, 0.5mls #M10560. Bring up to mark with DI H2O. [illegible]

#M10960 CCV1, CCV2. Into 2 1 Liter Volumetrics [illegible]
5% HCL 6-27-12
5% HNO3
CCV1 → 50mls #M10837 and 50 [illegible] with DI H2O
CCV2 → 5mls #M10837 and 0.5 [illegible] mark with DI H2O. [illegible]

#M10961 CSAB Into 500 ml vol flask pipet 50mls #M10837 [illegible] 5% HCL 6-27-12 #M10470 Bring up to mark w/ DI H2O. [illegible]
5% HNO3

HCl (AB.537) 538)	#M10940 06/19/12 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
e, dissolve 41) in 70ml HCl with D.I. H_2O.	#M10941 06/19/12 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
	#M10942 06/19/12 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10941) into 100ml = 3.0ug/L Hg
	#M10943 06/19/12 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
	#M10944 06/19/12 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10941) into 100ml = 0.2ug/L Hg
	#M10945 06/19/12 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
	#M10946 06/19/12 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M 10941) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10947 06/19/12 LSF Potassium permanganate sol'n: 50g Potassium permanganate (#M9903) dissolve into 1,000mL of D.I. H_2O.
Exp: 12/19/12

#M10948 06/19/12 LSF TCLP Extraction Fluid #1: Into a 20L carboy pipet 114mL Glacial Acetic Acid (AB.539) and 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 06/19/13

(AB: 538)

ide (# M 10941) in

#M10949 06/24/12
AMA Pd/Mg Modifier – Into a 50mL vol. Flask, pipet 15mL #M10726 and 5mL #M10551. Bring up to volume with Milli-Q Water. Exp. 10-30-12

#M 10563) into	#M10950 06/25/12 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
=100ug/L Hg 2ml = 5.0ug/L Hg 100mL = 10mg/L Hg ug/L Hg : 10ug/L Hg			
P ex June 15 2013	#M10951 06/25/12 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
	#M10952 06/25/12 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10951) into 100ml = 3.0ug/L Hg
	#M10953 06/25/12 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M10928 06/04/12 LSF Hg Aqua Regia Reagent: "Carefully in hood mix 3 parts HCl (AB: 537) with one part HNO3 (AB: 538)

#M10929 06/04/12 LSF Stannous Chloride Reagent: Into a 100mL volumetric flask, dissolve 100g Stannous Chloride (#M10241) in 70mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10930 06/11/12 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10931 06/11/12 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10932 06/11/12 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10931) into 100ml = 3.0ug/L Hg
#M10933 06/11/12 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10934 06/11/12 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10931) into 100ml = 0.2ug/L Hg
#M10935 06/11/12 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10936 06/11/12 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M10241) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10937 06/11/12 LSF Hg LOQ/LOD Spiking Sol'n (water) – 1.0mL of 1000mg/L Hg (#M10563) into 100mL = 10mg/L Hg
1.0mL of 10mg/L Hg into 100mL = 100ug/L Hg
5.0mL of 100ug/L Hg into 100mL = 5.0ug/L Hg

#M10938 06/11/12 LSF Hg LOQ/LOD Spiking Sol'n (soil) – 1.0mL of 1000mg/L Hg (#M10563) into 100mL = 10mg/L Hg
1.0mL of 10mg/L Hg into 100mL = 100ug/L Hg
10.0mL of 100ug/L Hg into 100mL = 10ug/L Hg

#M10939 6-18-12 Custom Assurance std. Spex CertiPrep lot # 7-1884P exp. June 15, 2013

#M10914 05/29/12 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10913) into 100ml = 3.0ug/L Hg
#M10915 05/29/12 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10916 05/29/12 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10913) into 100ml = 0.2ug/L Hg
#M10917 05/29/12 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
05/29/12 LSF #M10918 05/29/12 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M10241) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10919 05/29/12 LSF Potassium permanganate Soln: 50g potassium permanganate (#M9903) dissolve into 1000mL of D.I. H_2O.
Exp: 11/29/12

#M10920 05/29/12 LSF NaCl Hydroxylamine sulfate Reagent: Dissolve 100g NaCl (#M9574) and 100g hydroxylamine sulfate (#M10210) in 500mL Milli-Q H_2O.
Exp: 11/29/12

#M10921 05/30/12 LSF TCLP Extraction Fluid #1: Into a 20L carboy pipet 114mL Glacial Acetic Acid (AB.534) and 128.6mL 10N NaOH (#M10910). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp. 05/30/13

#M10922 05/30/12 LSF 10N NaOH: Into a 1L vol. flask add 400g NaOH (#M10571) and bring up to volume with D.I. H_2O.
Exp: 05/30/13

#M10923 06/04/12 LSF Hg working stds: (0.2% HNO_3, HCl)
1.0mL of 1000mg/L Hg (#M10563) into 100mL = 10mg/L Hg
1.0 mL of 10mg/L Hg into 100mL = 100ug/L Hg
0.5mL of 100ug/L Hg into 100mL = 0.5ug/L Hg
1.0mL of 100ug/L Hg into 100mL = 1.0ug/L Hg
2.0mL of 100ug/L Hg into 100mL = 2.0ug/L Hg
4.0mL of 100ug/L Hg into 100mL = 4.0ug/L Hg
5.0 mL of 100ug/L Hg into 100mL = 5.0ug/L Hg
10.0 mL of 100ug/L Hg into 100mL = 10.0ug/L Hg

#M10924 06/04/12 LSF Hg-All Source working std: (0.2% HNO_3, HCl) 1.0mL of 1000mg/L Hg (#M9063) into 100mL = 10mg/L Hg 1.0mL of 10mg/L into 100mL = 100ug/L Hg

#M10925 06/04/12 LSF Hg ICV 1L(SW) (0.2% HNO_3, HCl) 3.0mL of 100ug/L Hg (#M10924) into 100mL = 3.0ug/L Hg

#M10926 06/04/12 LSF Hg CCV (0.2% HNO_3, HCl)
1.0mL of 1000mg/L Hg (#M9954) into 100mL = 10mg/L Hg
1.0mL of 10mg/L Hg into 100mL = 100ug/L Hg
3.0mL of 100ug/L Hg into 100mL = 3.0ug/L Hg

#M10927 06/04/12 LSF Hg MRL: (0.2% HNO_3, HCL) 0.2mL of 100ug/L Hg (#M10924) into 100mL = 0.2ug/L Hg

#M10901 05/21/12 15F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10902 05/21/12 15F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10903 05/21/12 15F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10902) into 100ml = 3.0ug/L Hg
#M10904 05/21/12 15F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10905 05/21/12 15F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10902) into 100ml = 0.2ug/L Hg
#M10906 05/21/12 15F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1 part HNO3 (AB: 535)
#M10907 05/21/12 15F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride [illegible] 70 mL HCl (AB: 537). Bring up to volume with D.I. Water

#M10908 05/21/12 15F NaCl Hydroxylamine Sulfate Reagent: Dissolve 600g NaCl [illegible] 600g hydroxylamine sulfate [illegible] 500mL Milli-Q H_2O.
Exp: 11/21/12

#M10909 05/22/12 13F Potassium Persulfate Sol'n: 50g potassium persulfate [illegible] dissolve into 1,000mL D.I. H_2O.
Exp: 11/22/12

#M10910 05/24/12 13F 10N NaOH: Into a 1L Vol. flask add 400g NaOH (#M10[illegible]) [illegible] bring up to volume with D.I. H_2O.
Exp: 05/24/13

#M10911 05/24/12 13F TCLP Extraction Fluid #1: Into a 20L carboy pipet [illegible] Acetic Acid (AB: 544) and [illegible] (#M10910). Dilute to 20L with D.I. [illegible] and mix. pH = 4.93 ± 0.05
Exp: 05/24/13

#M10912 05/29/12 15F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10913 05/29/12 15F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg

permanganate
ve into 1,000mL

#M10886 05-09-12 TCLP Extraction Fluid #2 - Into a 20L carboy, pipet 114mL Glacial Acetic Acid (AB:534). Dilute to 20L with D.I. H_2O and mix. pH= 2.88 ± 0.05. Exp. 05-09-13
AMA

#M10887 05/11/12 ~~05/10/12~~ 15F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10888 05/11/12 ~~05/10/12~~ 15F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10889 05/11/12 ~~05/10/12~~ 15F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10888) into 100ml = 3.0ug/L Hg
#M10890 05/10/12 15F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10891 05/11/12 ~~05/10/12~~ 15F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10888) into 100ml = 0.2ug/L Hg
#M10892 05/11/12 ~~05/10/12~~ 15F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10893 05/11/12 ~~05/10/12~~ 15F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M 10241) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

3: 538)

(# M 10241) in

acial Acetic
aOH (#M10855).
mix.

#M10894 05/11/12 15F TCLP Extraction Fluid #1: Into a 20L carboy pipet 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M10855). Dilute to 20L with D.I. H_2O and mix. (pH = 4.93 ± 0.05)
Exp: 05/11/13

etic Acid (AB:534)
2 to 20L with
5)

#M10895 Custom Assurance Std Spex lot# 7-110YP ex. May 15 2013.
AA 5-14-12

82

#M10896 5-14-12 Fe 10,000mg/L CPI lot# 12C111 ex. NOV 2013
AA

#M10897 5-14-12 Al. 10,000mg/L CPI lot # 11L100 ex NOV 2013
AA

5 and 5mL
Exp. 10-30-12

#M10898 5-14-12 Ca 10,000mg/L CPI lot # 12D128 ex NOV 2013
AA

#M10899 5-14-12 Mg 10,000 mg/L CPI Lot # 12C187 ex NOV 2013
AA

8889

#M10900 05/18/12 15F Potassium Permanganate soln: 50g potassium permanganate (#M9903) dissolve into 1,000mL of D.I. H_2O.
Exp: 11/18/12

#M10873 05/03/12 LSF Potassium Permanganate Solin: 50g Potassium Permanganate (#M9903) dissolve into 1,000ml of D.I. H_2O.

Exp: 11/03/12 LSF

#M10874 05/04/12 LSF

Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10875) into 100ml = 3.0ug/L Hg
Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10875) into 100ml = 0.2ug/L Hg
Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M 10241) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10875 05/04/12 LSF

#M10876 05/04/12 LSF

#M10877 05/04/12 LSF

#M10878 05/04/12 LSF

#M10879 05/04/12 LSF

#M10880 05/04/12 LSF

#M10881 05/04/12 LSF TCLP Extraction Fluid #1: Into a 20L carboy pipet 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M10855). Exp: 05/04/13 (pH=4.93 ± 0.05) Dilute to 20L with D.I. H_2O and mix.

#M10882 05/04/12 LSF TCLP Extraction Fluid #1: Into a 20L carboy pipet 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M10855). Dilute to 20L with D.I. H_2O and mix. (pH=4.93 ± 0.05)

Exp: 05/04/13 05/04/12 LSF

#M10883 05/07/12 GLE Stannous Chloride Crystal, Macron Chemicals Lot No. K40582

#M10884 05/08/12 GLE Pd/Mg Modifier: Into a 50 mL vol. flask, pipet 15mL #M10726 and 5mL #M10551. Bring up to volume with MilliQ water. Exp. 10-30-12

#M10885 05/08/12 GLE Turbidity Standard 2.0 NTU, GFS Chemicals Lot No. C148889 Expires: 05/13

#M10886 AM

#M10887

#M10888

#M10889

#M10890

#M10891

#M10892

#M10893

#M10894

#M108

#M109

#M108

#M10

#M10

#M10861 04/27/12 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10862 04/27/12 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10863 04/27/12 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10862) into 100ml = 3.0ug/L Hg
#M10864 04/27/12 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10865 04/27/12 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10862) into 100ml = 0.2ug/L Hg
#M10866 04/27/12 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10867 04/27/12 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M 10241) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10868 04/30/12 GE Interferents: A Spex CertiPrep Lot No. 7-32XP Exp. 04-30-13

#M10869 04/30/12 GE TCLP #1 Extraction Fluid: Into a 20L carboy, pipet 114mL Glacial Acetic Acid (AB-534) and 128.6mL 10N NaOH (#M10855). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp. 04-30-13

#M10870
5-2-12

ICAP Working Standards Boron & Silicon

Standard name	Into 1 liter Pipet the following respectively:
10	0.1 mls of #M10837 and .01mls #M10860 = 10 ug/L
50	0.5 mls of #M10837 and .05mls #M10860 = 50 ug/L
100	1 mls of #M10837 and 0.1mls #M10860 = 100 ug/L
1000	10 mls of #M10837 and 1.0mls #M10860 = 1000 ug/L
10000	100 mls of #M10837 and 10mls #M10860 = 10000 ug/L

ex 3-13

#10871
5-2-12

Initial Calibration Standard (ICV) B, Si

Into 1 liter vol fisk pipet 1 ml of #M10275 & M10564
bring up to mark with DI H2O ex 11/12

#10872
5-2-12

Continuing Calibration Standard (CCV)

Into 1 liter vol flask pipet 10 mls of #M10837 and 1.0mls #M10564 = 1000 ug/L
bring up to mark with DI H20 ex 12-12

202

04/19/2013F

#M10847 04/19/2013F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg	#M 1
#M10848 04/19/2013F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg	#M108
#M10849 04/19/2013F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10848) into 100ml = 3.0ug/L Hg	#M108
#M10850 04/19/2013F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg	#M10860
#M10851 04/19/2013F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10848) into 100ml = 0.2ug/L Hg	#M10865
#M10852 04/19/2013F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)	#M10860
#M10853 04/19/2013F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10241) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.	#M10866

#M10854 04/19/2013F Potassium Permanganate soln: 50g Potassium Permanganate (#M9903) dissolve into 1,000mL of D.I. H_2O. #M108
Exp: 10/19/12 #M108

#M10855 04/24/2013F 10N NaOH: Into a 1L vol. flask add 400g NaOH (#M10538) LOT 1044 04/12 SE and bring up to volume with D.I. H_2O.
Exp: 04/24/13

#M10856 04/24/2013F TCLP Extraction Fluid #1: Into 20L Carboy pipet 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M10708). Dilute to 20L with D.I. H_2O and mix. #M
Exp: 04/24/13 (pH=4.93±0.05) 5.

#M10857 04/25/12 SPLP Ext. Fluid Acid Mixture: Into a 200mL vol. flask, add 12g H_2SO_4 (AB:528) and 8g Conc. HNO_3 (AB:551). Bring up to volume with D.I. H_2O.
GAE Exp. 04-25-13

#M10858 04/25/12 SPLP Extraction Fluid #1: Into a 20L carboy, add D.I. H_2O to mark and adjust pH to 4.20±0.05 with #M10857. #1
GAE

#M10859 04/26/2013F NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574) and 60g Hydroxylamine Sulfate (#M10210) in 500mL Milli-Q H_2O. #1
Exp: 10/26/12

#M10860 4-27-2012 Silicon 1000 mg/L FISHER lot # 116650 exp 12/13

to a
lume
13

#M10833 04/05/12 TCLP Extraction Fluid #1: Into a 20L carboy pipet 114mL Glacial Acetic Acid (AB: 534) and 128.6mL 10N NaOH (#M10708). Dilute to 20L with D.I. H_2O and mix.
13F
Exp. 04/05/13
pH = 4.93 ± 0.05

a
Volume
13.

#M10834 04/09/12 GFAA Base Std (25µg/L) (5% HCL, 2% HNO_3) Pipet 25mL of #M10818 into a 1L vol. flask and bring up to volume with MilliQ H_2O. Exp. 04-01-13
GE

a
Volume
13.

#M10835 04/09/12 GFAA CCV Std (10µg/L) (5% HCL, 2% HNO_3) Pipet 10mL of #M10818 into a 1L vol. flask and bring up to volume with MilliQ H_2O. Exp. 04-01-13.
GE

#M10836 04/09/12 GFAA Alt. Source Std (10µg/L) (5% HCL, 2% HNO_3) Pipet 50mL of #M10819 into a 1L vol. flask and bring up to volume with MilliQ H_2O. Exp. 04-01-13
GE

issolve

#M10837. 4-11-2012 Custom Assurance std 100mg/L Spex Certiprep Lot # 11-189 CR ex 3/13.
A

#M10838 4-11-2012 Custom Assurance std x spike Spex Certiprep Lot# 11-188Cr ex 3/13
A

#M10839 4-11-12 CPI Pb 10,000 mg/L Lot# 115007 ex 10/13
A

#M10840 04/12/12 LSF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M10841 04/12/12 LSF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M10842 04/12/12 LSF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M10841) into 100ml = 3.0ug/L Hg

#M10843 04/12/12 LSF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M10844 04/12/12 LSF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M10841) into 100ml = 0.2ug/L Hg

hydroxylamine
H_2O.

#M10845 04/12/12 LSF — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)

#M10846 04/12/12 LSF — Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10241) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

7821
5

#M10820 04/02/12 GFAA Alt Source Std (10µg/L) Pipet 50mL of #M10817 into
GAE (1% HNO_3) 1L vol. flask and bring up to vol.
with Mill.Q H_2O. Exp:

#M10821 04/02/12 GFAA CCV Std (10µg/L) Pipet 10mL of #M10818 into
GAE (1% HNO_3) 1L vol. flask and bring up to
with Mill.Q H_2O. Exp:

#M10822 04/02/12 GFAA Base Std (25µg/L) Pipet 25mL of #M10818 into
GAE (1% HNO_3) 1L vol. flask and bring up to
with Mill.Q H_2O. Exp:

#M10823 04/03/12 Potassium persulfate soln: 50g potassium persulfate (#M9844) and
Exp: 10/03/12 04/03/12 LSF into 1,000mL DI. H_2O. 04/03/12 LSF

#M10824 04/03/12 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10825 04/03/12 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10826 04/03/12 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10825) into 100ml = 3.0ug/L Hg
#M10827 04/03/12 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10828 04/03/12 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10825) into 100ml = 0.2ug/L Hg
#M10829 04/03/12 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10830 04/03/12 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10831 04/03/12 LSF NaCl Hydroxylamine Sulfate Reagent: Dissolve 600g NaCl (#M9544) and Hydroxylamine
Exp: 10/03/12 Sulfate (#M10210) in 500mL Mill.Q

#M10832 4-4-2012 Yttrium 10,000 Environmental Express Lot #
JA ex Sept

#M10809 03/22/12 GF — Hg AH Source working std: 1.0mL of 1000mg/L Hg (#M9063) into 100mL = 10 mg/L Hg (0.2% HNO_3, HCl); 1.0mL of 10mg/L into 100mL = 100ug/L Hg

#M10810 03/22/12 GF — Hg ICV/LCSW 3.0mL of 100ug/L Hg (#M10809) into 100mL = 3.0ug/L Hg (0.2% HNO_3, HCl)

#M10811 03/22/12 GF — Hg CCV 1.0mL of 100mg/L Hg (#M9934) into 100mL = 10mg/L Hg (0.2% HNO_3, HCl); 1.0mL of 10mg/L Hg into 100mL = 100ug/L Hg; 3.0mL of 100ug/L Hg into 100mL = 3.0ug/L Hg

#M10812 03/22/12 GF — Hg MRL: 0.2mL of 100ug/L (#M10809) into 100mL = 0.2ug/L Hg (0.2% HNO_3, HCl)

#M10813 03/22/12 GF — Hg Aqua Regia Reagent: Carefully in hood, mix 3 parts HCl (AB.537) with 1 part HNO_3 (AB.547)

#M10814 03/22/12 GF — Stannous Chloride Reagent: Into a 100mL volumetric flask, dissolve 100g Stannous Chloride (#M10572) in 70mL HCl (AB.537). Bring up to volume w/ D.I. H_2O.

#M10815 03/23/12 GF — 3050 LOQ ✓; 10mL HCl; 10mL HNO_3

LOQ

3050[redacted] Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MDL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	14.4		1000	0.72
Sn	20		1000	1
Sr	3.2		1000	0.16
Tl	9.6		1000	0.48
W	24		1000	1.2

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

EXPIRES 08/[illegible]/2010

#M10816 03/29/12 GE — Inorganic Ventures CTI-SPK-1 Lot no. F2-MEB417037 Exp. 04-01-2013

#M10817 03/29/12 GE — Inorganic Ventures CTI-GFCAL-1 Lot no. F2-MEB417036 Exp. 04-01-2013

#M10818 04/02/12 GE — GFAA Working Base Std. (1000µg/L): Pipet 10mL of #M10816 into a 1 L vol. flask & bring up to volume with MilliQ water. Exp. 04-01-13 (1% HNO_3)

#M10819 04/02/12 GE — GFAA AH Source Working Std (200µg/L): Pipet 20mL of #M10817 into a 1L vol flask and bring up to volume with MilliQ H_2O. Exp. 04-01-13. (1% HNO_3)

#M10801 03/12/12 GFAA Stability Check Working Standard: Into a 250 mL vol. flask, [illegible] #M10809 03/12
GUE 1% HNO_3, Exp. 09-09-12 and bring up to volume with D.I.
0.6mL of 1,000 mg/L As (#M10280) 03/12/1
0.04mL of 10,000 mg/L Pb (#M10146) #M10810 03/22
1.7mL of 1,000 mg/L Se (#M10310)
0.9mL of 1,000 mg/L Sb (#M10280) #M10811 03/22/12
0.4mL of 1,000 mg/L Tl (#M10566)
0.07mL of 1,000 mg/L Ag (#M10310)

#M10802 03/12/12 GFAA Stability Check Standard: Pipet 5mL of #M10801 [illegible] #M10812 03/22/1
GUE 1% HNO_3, Exp. 09-09-12 1L vol. flask and bring up to volume with D.I. H_2O.

#M10803 03/13/12 TCLP Extraction Fluid #1: Into a 20L carboy pipet 114mL Glacial $AcOH$ (AB.534) and 128.6mL 10N NaOH (#M10402) #M10813 03/22/12
(pH=4.93±0.05) Exp: 03/13/13 Dilute to 20L with D.I. H_2O and mix.

#M10804 03/13/12 1N HCl for TCLP: Into a 1L vol. flask, partially filled with #M10815 03/12
GUE Milli-Q H_2O, add 83 mL of Conc. HCl
Exp. 03/13/13 (AB.543) and bring up to volume with Milli-Q water.

#M10805 3-20-2012 MDL, LOQ check (3010) 5 H_2O. Into 1 liter volumetric
A flask pipet 1ml M10762 bring up to mark with [illegible]
x50 dilution -- use 1ml into 50 or 10 into 500ml
for = 200ug/L.

#M10805Cl 3-20-2012 LOD, LOQ Check (3050) Into 1 Liter volumetric
A flask pipet 1ml M10762. Bring up to mark with [illegible]
x100 dilution - use 1ml into 50 or 10 into 500ml
for = 240 mg/L or 6mg/kg.

#M10807 03/22/12 15F Potassium permanganate soln: 50g potassium permanganate [illegible]
Exp: 09/22/12 15F dissolve into 1000ml of D.I. H2O.

#M10808 03/22/12 15F Hg working stds: 1.0mL of 1000mg/L Hg (#M10563) into 100mL = 10mg/L Hg
(0.2% HNO_3, HCl) 1.0mL of 10mg/L Hg into 100mL = 100ug/L Hg
0.5mL of 10mg/L Hg into 100mL = 0.5ug/L Hg
1.0mL of 10mg/L Hg into 100mL = 1.0ug/L Hg
2.0mL of 10mg/L Hg into 100mL = 2.0ug/L Hg
4.0mL of 10mg/L Hg into 100mL = 4.0ug/L Hg
5.0mL of 10mg/L Hg into 100mL = 5.0ug/L Hg
10.0mL of 10mg/L Hg into 100mL = 10.0ug/L Hg

#M10790 03/06/12 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10789) into 100ml = 3.0ug/L Hg
#M10791 03/06/12 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10792 03/06/12 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10789) into 100ml = 0.2ug/L Hg
#M10793 03/06/12 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M 10572) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.
#M10794 03/09/12 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10795 03/09/12 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10796 03/09/12 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10795) into 100ml = 3.0ug/L Hg
#M10797 03/09/12 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10798 03/09/12 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10795) into 100ml = 0.2ug/L Hg
#M10799 03/09/12 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10800 03/09/12 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10572) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

3-12-12

#M10777 02/28/12 SF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M10778 02/28/12 SF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M10777) into 100ml = 3.0ug/L Hg

#M10779 02/28/12 SF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M10780 02/28/12 SF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M10777) into 100ml = 0.2ug/L Hg

#M10781 02/28/12 SF — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)

#M10782 02/28/12 SF — Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10572) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10783 03/02/12 GE — TCLP Extraction Fluid #1: (pH = 4.93 ± 0.05)
Into a 20L carboy, pipet 114mL Glacial Acetic Acid (AB-534) and 128.6 mL 10N NaOH (#M10708). Dilute to 20L with D.I. H_2O and mix. Exp. 03/02/13

#M10784 3-2-2012 D — Sulfur Working Stds ICAP and CCV
into 4 100 ml vol flasks, pipet respectfully from #M10773 10,000 mg/L Sulfur Std.
also CCV ← 1000 std = .01 mls of #M10773 = 1000 ug/L
10,000 std = .1 mls of #M10773 10,000 ug/L
100,000 std = 1.0 mls of #M10773 100,000 ug/L
1000K std = 10 mls of #M10773 1000K ug/L
Bring up to mark with DI H_2O. ex 10/13

#M10785 3-2-2012 D — Sulfur ICV
into 100 ml Vol flask pipet .01 mls #M10767 10,000 mg/L Sulfur = 1000 ug/L S.

#M10786 03/05/12 GE — Pd/Mg Modifier:
Into a 50 ml vol. flask, pipet 15mL #M10726 and 5mL #M10551, Bring up to volume with MilliQ water. Exp. 10-30-12

#M10787 03/05/12 GE — TCLP Extraction Fluid #2:
Into a 20 L carboy, pipet 114mL Glacial Acetic Acid (AB-534). Dilute to 20L with DI H_2O. and mix. pH = 2.88 ± 0.05, Exp. 03-05-13

#M10788 03/06/12 SF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
3/2/12

#M10789 03/06/12 SF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M10790
#M10791 03/
#M10792
#M10793
#M10794
#M10795
#M10796
#M10797
#M10798
#M10799
#M10800

#M10764 02/17/12 15F NaCl Hydroxylamine sulfate Reagent: Dissolve 60g NaCl (#M9574) and 60g Hydroxylamine sulfate (#M10210) in 500 mL milli-Q H2O.
Exp: 08/17/12 15F 02/17/13 15F

#M10765 02/21/12 13F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10766 02/21/12 13F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10767 02/21/12 15F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10766) into 100ml = 3.0ug/L Hg
#M10768 02/21/12 13F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10769 02/21/12 13F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10766) into 100ml = 0.2ug/L Hg
#M10770 02/21/12 15F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10771 02/21/12 13F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M 10572) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10772 02/21/12 15F Potassium permanganate: 50g potassium permanganate (#M9903) dissolve into 1000mL D.I H2O.
Exp: 08/21/12

#M10773 2-21-2012 Sulfur 10,000mg/ml SCP Science Lot #S120116017 ex 10/13

#M10774 02/26/12 TCLP Extraction Fluid #1: Into a 20L carboy pipet 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M10708) Dilute to 20L with D.I. H2O and mix. pH = 4.93±0.05
15F
Exp: 02/26/13

#M10775 02/27/12 TCLP Extraction Fluid #1: Into a 20L Carboy, pipet 114mL Glacial Acetic Acid (AB:534) and 128.6mL 10N NaOH (#M10708). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
GEE
Exp: 02/27/13 02/27/13 GEE

#M10776 02/28/12 15F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M10748 02/07/12/5F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10749 02/07/12/5F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10748) into 100ml = 3.0ug/L Hg
#M10750 02/07/12/5F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10751 02/07/12/5F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10748) into 100ml = 0.2ug/L Hg
#M10752 02/07/12/5F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10753 02/07/12/5F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M6572) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.
#M10754 02/14/12/5F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10755 02/14/12/5F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10756 02/14/12/5F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10755) into 100ml = 3.0ug/L Hg
#M10757 02/14/12/5F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10758 02/14/12/5F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10755) into 100ml = 0.2ug/L Hg
#M10759 02/14/12/5F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)
#M10760 02/14/12/5F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M6572) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10761 2-15-12 Phosphorus 10,000 mg/L Spex Certiprep Lot # AC12-16P

#M10762 2-15-12 Sulfur 10,000 mg/L Spex Certiprep Lot # AC12-1635 6 2-15-12

#M10763 02/16/12/5F TCLP Extraction Fluid #1: Into a 20L carboy pipet 114ml Glacial Acetic Acid (AB.534) and 128.6ml 10N NaOH (#M10538) Dilute to 20L with D.I. H2O and mix. pH=4.93±0.05

Exp: 02/16/13

#M107 | #M10765 | #M10766 | #M10767 | #M10768 | #M10769 | #M1077 | #M107 | #M1077 | #M107 | #M107 13F | #M1077 GE | #M1077

01-23-12 GLE

#M10734 01-23-12 GLE — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#~~M9954~~ 10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M10735 01-23-12 GLE — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M10732) into 100ml = 0.2ug/L Hg

#M10736 01-23-12 GLE — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)

#M10737 01-23-12 GLE — Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10572) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10738 01-23-12 GLE — Potassium Permanganate: 50g Potassium Permanganate (# M9903) dissolved into 1,000 mL D.I. H2O. Exp. 07-23-12

#M10739 01/26/12 GLE — TCLP Extraction Fluid #1: Into a 20L carboy pipet 114mL Glacial Acetic Acid (AB 539) and 128.6mL 10N NaOH (#M10708). Dilute to 20L with D.I. H2O and mix. pH = 4.93 ± 0.05
Exp: 01/26/13

#M10740 01/27/12 GLE — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M10741 01/27/12 GLE — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M10742 01/27/12 GLE — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M10741) into 100ml = 3.0ug/L Hg

#M10743 01/27/12 GLE — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M10744 01/27/12 GLE — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M10741) into 100ml = 0.2ug/L Hg

#M10745 01/27/12 GLE — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 538)

#M10746 01/27/12 GLE — Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10572) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#10747 02/07/12 GLE — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M10720 01/17/12 LSF — Hg ICV / LCSW (0.2% HNO3, HCl): 3.0ml of 100ug/L Hg (#M 10719) into 100ml = 3.0ug/L Hg

#M10721 01/17/12 LSF — Hg CCV (0.2% HNO3, HCl): 1.0ml of 1000mg/L Hg (#M~~9954~~ 10563 01-23-12 GVE) into 100ml=10mg/L Hg; 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg; 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M10722 01/17/12 LSF — Hg MRL: (0.2% HNO3, HCl): 0.2ml of 100ug/L Hg (#M 10719) into 100ml = 0.2ug/L Hg

#M10723 01/17/12 LSF — Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)

#M10724 01/17/12 LSF — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10725 1-17-12 Spex Certiprep Custom Assurance Std lot # 10-170CR ex 1/15/2013.

#M10726 01-17-12 GVE Matrix Modifier 1% Pd in 8% (wt/wt) HNO3 + Tr HCL Env. Exp. Lot No. 1101221 Exp. 01-12-13

#M10727 01-17-12 GVE Pd/Mg Matrix Modifier: Into a 50mL vol flask, pipet 15mL #M10726 and 5mL #M10551. Bring up to volume with MilliQ water. Exp. 10-30-12

#M10728 01/20/12 GVE GFAA Base Std (50 µg/L) (1% HNO3) Pipet 12.5mL of #M10184 into a 250 mL vol. flask. Bring up to volume with MilliQ H2O. Exp. 04-01-12.

#M10729 01-20-12 GVE GFAA Alt. Source Std (25 µg/L) (1% HNO3) Pipet 31.25mL of #M10185 into a 250mL vol. flask. Bring up to volume with MilliQ H2O. Exp. 04-01-12

#M10730 01-20-12 GVE GFAA CCV Std (25 µg/L) (1% HNO3) Pipet 50mL of #M10728 into a 100mL vol. flask. Bring up to volume with MilliQ H2O. Exp. 04-01-12

#M10731 01-23-12 GVE — Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M10732 01-23-12 GVE — Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M10733 01-23-12 GVE — Hg ICV / LCSW (0.2% HNO3, HCl): 3.0ml of 100ug/L Hg (#M10732) into 100ml = 3.0ug/L Hg

#M10707 01/06/12 LSF TCLP extraction Fluid #1: Into a 20L carboy pipet 114mL glacial Acetic Acid (AB: 534) and 128.6mL 10N NaOH (#M10538). Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05
Exp: 01/06/13

#M10708 01/06/12 LSF 10N NaOH: Into a 1L vol. flask add 400g NaOH (~~#9477~~ M10541 01/06/12 LSF) and bring up to volume with D.I. H_2O
Exp: 01/06/13

#M10709 01/09/12 GLE Titanium 1000 µg/mL CPI Lot No. 11E121 Exp. 04-20-13
Rec'd 10-25-11

#M10710 01/10/12 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10568) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10711 01/10/12 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10712 01/10/12 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10711) into 100ml = 3.0ug/L Hg
#M10713 01/10/12 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M~~9954~~ 10563 01-23-12 GLE) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10714 01/10/12 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10711) into 100ml = 0.2ug/L Hg
#M10715 01/10/12 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)
#M10716 01/10/12 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10717 01/16/12 GLE Custom Assurance Standard 100 mg/L As, Ag, B, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn. Spex CertiPrep Lot No. ~~XCFW1-5-500~~ 01-16-12 GLE 5-157YP
Exp. 01-15-13

#M10718 01/13/12 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M10568) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10719 01/13/12 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M10703 1-4-12 MDL Spiking Soln' all. 50X
D into 1 Liter vol flask Pipet the following:

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	5	M10310	1000	0.25
Al	10	M10670	10000	0.05
As	20	M10281	1000	1
Ba	2	M10143	1000	0.1
Be	0.5	M10568	1000	0.025
Ca	50	M10669	10000	0.25
Cd	0.5	M10278	1000	0.025
Co	2.5	M10561	1000	0.125
Cr	5	M10139	10000	0.025
Cu	10	M10144	10000	0.05
Fe	20	M10671	10000	0.1
Mg	25	M10668	10000	0.125
Mn	5	M10141	10000	0.025
Mo	2.5	M10560	1000	0.125
Ni	5	M10565	1000	0.25
Pb	10	M10142	10000	0.05
Sb	20	M10280	1000	1
Se	20	M10277	1000	1
Tl	20	M10566	1000	1
V	5	M10285	1000	0.25
Zn	5	M10284	10000	0.025

ex. 9-9-12

Bring up to mark with DI H2O. use 1ml into 50mls or 100mls into 500.

#M10704 1-4-12 MDL Spiking Soln' Na, K. Into One Liter Vol
D flask pipet the following ⇒

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
K	500	M10667	10000	
Na	500	M10570	10000	

Bring up to mark with DI H_2O. use 1ml into 50mls or 10.0 mls into 500. ex. 4-2-2013

#M10705 1-4-12 MDL Spiking Soln B, Si. Into 1 Liter vol flask pipet
D following.

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	20	M10225	1000	1
Si	100	M10584	1000	5

Bring up to mark with DI H_2O. Use 1ml into 50mls or 10.0 into 500. ex. NOV 25, 2012

#107006 1-4-12 MDL Spiking Soln. Lista Into 1 Liter vol flask
D pipet the following.

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	5	M10567	1000	0.25
Sn	5	M10562	1000	0.25
Sr	5	M10569	1000	0.25
Tl	5	M10566	1000	0.25
W	10	M10559	1000	0.5

Bring up to mark with DI H_2O. Use 1ml into 50 or 10.0 mls into 500. ex. 4-20-2013

#M10677 12/19/11 GE	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10676) into 100ml = 3.0ug/L Hg
#M10678 12/19/11 GE	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (~~#M9954~~ 10563 01-23-12 GE) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10679 12/19/11 GE	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10676) into 100ml = 0.2ug/L Hg
#M10680 12/19/11 GE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)
#M10681 12/19/11 GE	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.
#M10682 12/20/11 GE	GFAA LOD/LOQ Soil Working Std (1% HNO_3) Expires: 09/09/12	Into a 200 mL vol. flask, partially filled with H_2O, pipet the following and bring up to volume with D.I. H_2O. 1.2mL Sb 1000 mg/L (#M10280) = 6,000 µg/L Sb 3.2mL As 1000 mg/L (#M10281) = 16,000 µg/L As 3.2mL Se 1000 mg/L (#M10277) = 16,000 µg/L Se 0.08mL Pb 10,000 mg/L (#M10142) = 4,000 µg/L Pb 1.0mL Tl 1000 mg/L (#M10566) = 5,000 µg/L Tl 0.12mL Ag 1000 mg/L (#M10310) = 600 µg/L Ag
#M10683 12/20/11 GE	GFAA LOD/LOQ Soil Spiking Solution (1% HNO_3) Expires: 09/09/12	Into a 1L vol. flask, pipet 10mL of #M10682 and bring up to volume with D.I. H_2O.
#M10684 12/23/11 TSF	Potassium Permanganate: Exp: 06/23/12	50g Potassium permanganate (#M9703) dissolved into 1,000mL D.I. H_2O.
#M10685 12/23/11 TSF	Hg Working Stds: (0.2% HNO3, HCl)	~~1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg~~ 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10686 12/23/11 TSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10687 12/23/11 TSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10686) into 100ml = 3.0ug/L Hg
#M10688 12/23/11 TSF	Hg CCV (0.2% HNO3, HCl)	~~1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg~~ 10563 01-23-12 GE ~~1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg~~ ~~3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg~~

#M10672 12/16/11 3F 3010 LOQ ✓

5% HNO3
5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	10	M10567	1000	0.5
Sn	10	M10140	1000	0.5
Sr	2	M10369	1000	0.1
Tl	8	M10709	1000	0.4
W	36	M10559	1000	1.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 09/09/12

#M10673 12/16/11 3F 3010 LOQ ✓

5% HNO3
5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
K	500	M10384	10000	2.5
Na	600	M10570	10000	3

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: [illegible]

#M10674 12/16/11 3F 3010 LOQ ✓

5% HNO3
5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	16	M10735	1000	0.8
Si	200	M9545	1000	10

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 04/12

M10675 12/19/11 GG — Hg Working Stds: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M10563) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

M10676 12/19/11 GG — Hg Alt Source Working Std: (0.2% HNO3, HCl)

1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M10666 12/15/11 GE 3010200 ✓

5% HNO_3
5% HCl

3010 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Ag	4	M10310	1000	0.2
Al	36	M10416	10000	0.18
As	24	M10281	1000	1.2
Ba	1.8	M10143	1000	0.09
Be	0.6	M10568	1000	0.03
Ca	100	M10415	10000	0.5
Cd	2	M10278	1000	0.1
Co	4	M10561	1000	0.2
Cr	4	M10139	10000	0.02
Cu	7	M10144	10000	0.035
Fe	100	M10417	10000	0.5
Mg	40	M10418	10000	0.2
Mn	4	M10141	10000	0.02
Mo	7	M10560	1000	0.35
Ni	6	M10565	1000	0.3
Pb	4	M10142	10000	0.02
Sb	12	M10280	1000	0.6
Se	13	M10277	1000	0.65
Tl	15	M10566	1000	0.75
V	5	M10285	1000	0.25
Zn	10	M10284	10000	0.05

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 09/09/12

#M10667 12/15/11 GE Potassium 10,000 ± 30 µg/mL CPI Lot No. 11J155 Expires: 06-09-13

#M10668 12/15/11 GE Magnesium 10,000 ± 30 µg/mL CPI Lot No. 11K178 Expires: 06-09-13

#M10669 12/15/11 GE Calcium 10,000 ± 30 µg/mL CPI Lot No. 11K228 Expires: 06-09-13

#M10670 12/15/11 GE Aluminum 10,000 ± 30 µg/mL CPI Lot No. 11J015 Expires: 06-09-13

#M10671 12/15/11 GE Iron 10,000 ± 30 µg/mL CPI Lot No. 11L009 Expires: 06-09-13

#M10663 12/15/11 SF 3050 LOQ ✓

5% HNO_3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
Li	14.4	M10547	1000	0.72
Sn	20	M10440	1000	1
Sr	3.2	M10514	1000	0.16
Tl	9.6	M10709	1000	0.48
W	24	M10554	1000	1.2

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 08/12

#M10664 12/15/11 LJF 3050 LOQ ✓

5% HNO_3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
K	2640	M10324	10000	13.2
Na	960	M10570	10000	4.8

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 01/22/13

#M10665 12/15/11 SF 3050 LOQ ✓

5% HNO_3
5% HCl

3050 LOQ Spiking Solution
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	LOQ (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L
B	52	M10739	1000	2.6
Si	192	M9545	1000	9.6

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expires: 04/12

#M10626 11-21-11 GAE	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg	#M10639
#M10627 11-21-11 GAE	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10624) into 100ml = 0.2ug/L Hg	#M10640 17
#M10628 11-21-11 GAE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)	
#M10629 11-21-11 GAE	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.	#M10641 12/
#M10630 11-28-11 GAE	GFAA LOD/LOQ Water Spike Working Standard: (1% HNO_3) Exp. 09-09-12	Into a 100mL vol. flask, partially filled with D.I. H_2O, pipet the following and bring up to volume with D.I. H_2O. 1.5mL Sb (1,000 mg/L) #M10280 = 15,000 µg/L Sb 1.0mL As (1,000 mg/L) #M10281 = 10,000 µg/L As 2.0mL Se (1,000 mg/L) #M10277 = 20,000 µg/L Se 0.045mL Pb (10,000 mg/L) #M10142 = 4500 µg/L Pb 0.4mL Tl (1,000 mg/L) #M10566 = 4000 µg/L Tl ~~1.0mL Ag (1,000 mg/L) #M~~ = ~~10,000 µg/L Ag~~ 0.1mL Ag (1,000 mg/L) #M10310 = 1,000 µg/L Ag	#M10642 12/02 #M10643 12/02 #M10644 12/0
#M10631 11-28-11 GAE	GFAA LOD/LOQ Water Spiking Solution: (1% HNO_3) Exp. 09-09-12	Into a 1L vol. flask, pipet 10mL of #M10630 and bring up to volume with D.I. H_2O.	#M10645 12
#M10632 11/29/11 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg	#M10646 12/
#M10633 11/29/11 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg	#M10646 12/
#M10634 11/29/11 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10633) into 100ml = 3.0ug/L Hg	
#M10635 11/29/11 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg	
#M10636 11/29/11 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10633) into 100ml = 0.2ug/L Hg	
#M10637 11/29/11 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)	
#M10638 11/29/11 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.	

#M10617
ICSAB NAK. Into 500 ml vol flask pipet 50 mls #M10550
11-16-11 15 mls #M10417, 5 mls #M10570 + 5 mls. #M10387.
.5% HCL+HNO3 Bring up to Mark with DI H2O. ex 10/12

#M10618 Working Standards for Sodium and Potassium; into seven, 200 ml volumetric flasks pipette from #M10315 and #M10313.
11-16-11
.5% HCL+HNO3

For the 0.5 mg/L std– 0.1 mls of each
1.0 mg/L std – 0.2 mls of each
5.0 mg/L std – 1.0 mls of each
10.0 mg/L std – 2.0 mls of each
50.0 mg/L std - 10.0 mls of each
100 mg/L std -20.0 mls each also used for Continuing Calibration Standard (CCV)
200 mg/L std -40.0 mls of each
Bring up to mark with DI H2O. expires December 2012.

#M10619 Initial Calibration Standard (ICV) Into 500 ml volumetric pipette 5 mls of #M10570 and #M10387 and bring up to mark with DI H2O. expires January 2013.
11-16-11
.5% mls HNO3+HCL
11-16-11

#M10620 ICSAB. List 2. Into 500 ml Vol flask pipet 50 mls
11-16-11 #M10550 15 mls M10417 0.2 mls of #M10566,
5 mls HNO3+HCL #M10562 #M10567 #M10559 #M10569 Bring up
to Mark with DI H2O.

#M10621 GOE Pd/Mg Matrix Modifier: Into a 50mL vol. flask, pipet 15mL #M10032
11-17-11 and 5mL #M10551. Bring up to volume with
MilliQ H2O. Exp. 01-06-12

#M10622 Spex Custom Assurance Std Spex CertiprEp lot # 10-19CR.
11-18-11

#M10623 GOE Hg Working Stds: (0.2% HNO3, HCl)
11-21-11

1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M10624 GOE Hg Alt Source Working Std: (0.2% HNO3, HCl)
11-21-11

1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M10625 GOE Hg ICV / LCSW (0.2% HNO3, HCl)

3.0ml of 100ug/L Hg (#M10624) into 100ml = 3.0ug/L Hg

#M10608 MRL Working std.
11-16-11 — pipet from #10607 10 mls into 500 mL
.5% HNO3+HCL Vol flask. Bring up to mark with DI H2O

#M10609 ICAP Working Standards List 2
11-16-11 .5% HNO3 .5%HCL
.5% HNO3+HCL

Standard name — Pipet the following respectively: Into 1 Liter.

1	0.01 mls of #M10334 and .001mls #M10559 = 1 ug/L
10	0.10 mls of #M10334 and .01mls #M10559 = 10 ug/L
100	1 mls of #M10334 and 0.1mls #M10559 = 100 ug/L
1000	10 mls of #M10334 and 1.0mls #M10559 = 1000 ug/L
10000	100 mls of #M10334 and 10mls #M10559 = 10000 ug/L ex 6/12

#M10610 Initial Calibration Standard (ICV) List 2
11-16-11
Into 1 liter vol flsk pipet 1 ml of #M10569,M10562,M10567,M10566, and M9930
bring up to mark with DI H2O ex 6/12

#M10611 Continuing Calibration Standard (CCV)
11-16-11
Into 1 liter vol flask pipet 10 mls of #M10334 and 1.0mls #M10559 = 1000 ug/L
bring up to mark with DI H20 ex 6-12

#M10612 ICAP Working Standards Boron & Silicon
11-16-11

Standard name — Into 1 liter Pipet the following respectively:

10	0.1 mls of #M10334 and .01mls #M99150 = 10 ug/L
50	0.5 mls of #M10334 and .05mls #M99150 = 50 ug/L
100	1 mls of #M10334 and 0.1mls #M99150 = 100 ug/L
1000	10 mls of #M10334 and 1.0mls #M99150 = 1000 ug/L
10000	100 mls of #M10334 and 10mls #M99150 = 10000 ug/L ex 6/12

#M10613 Initial Calibration Standard (ICV) B, Si
11-16-11
Into 1 liter vol flsk pipet 1 ml of #M10564 & M10575
bring up to mark with DI H2O ~~ex 6/12~~ 11-16-11

#M10614 Continuing Calibration Standard (CCV)
11-16-11
into 1 liter vol flask pipet 10 mls of #M10334 and 1.0mls #M99150 = 1000 ug/L
bring up to mark with DI H20 ex 6-12

#M10615 ICSA Into 500 ml vol. flask pipet 50 mls
11-16-11 #M10550 and 15 mls #M10477 Bring up to mark with
5% HNO3+HCL DI H2O. ex 10/12. ~~+0.5mls M99150.~~

#M10616 ICSAB. Into 500 ml vol flask pipet 50 mls #M10550 & 15 mls #M10477
11-16-11 2.5 mls #M10334 & 2.5 mls M10470. Bring up to mark with
.5% HNO3+HCL H2O ex 6/12 0.5 mls #M99150

M10604
11-16-11
[illegible]

Continuing Calibration Standard 1(CCV1) .5% HNO3 , 5% HCL

Into a one liter volmetric flask pipet 50mls of # M10334 (ex 6/12)
and 5 ml of #M10310 Ag (ex 12/12), #M10568 Be 4/13) and #M10278 Cd (ex 11/12).
ex.nov 6/12
Bring up to mark with DI H2O

M10605
11-16-11
[illegible]

Continuing Calibration Standard 2(CCV2) 5% HNO3 + HCL

Into a one liter volmetric flask pipet 5 mls of # M10334 (ex 6/12)
and 0.5 ml of #M10310 Ag (ex 12/12), #M10568 Be 4/13) and #M10278 Cd (ex 11/12).
ex.nov 6/12
Bring up to mark with DI H2O

#M 106006
11-16-11
[illegible]

Initial Calibration Standard (ICV)
Into one liter volumetric flask pipet 10 mls of M10503 (ex 9/12)
2.0 mls of #m10550 (ex 10/12) and 0.5 mls #M10560 Mo (ex 4/13) and 0.5 mls
of #M10275 B (ex 11/12) bring up to mark with DI H2O ex [illegible]

3: 536)

(# M10326 (a)) in

#M10607
11-16-11
[illegible]

pet 114ml
#M 10538
Mix

5% HNO3
&
HCL

MRL Std
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MRL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L	Expiration Date
Ag	10	M10310	1000	0.5	12/08/12
Al	400	M10416	**10000**	2	02/10/13
Ba	10	M10143	1000	0.5	09/09/12
Be	4	M10568	1000	0.2	04/20/13
Cd	5	M10278	1000	0.25	11/25/12
Co	10	M10561	1000	0.5	04/20/13
Cr	10	M10139	**10000**	0.05	09/09/12
Cu	10	M10144	**10000**	0.05	09/09/12
Mg	500	M10418	**10000**	2.5	02/10/13
Mn	10	M10141	**10000**	0.05	09/09/12
Mo	10	M10560	1000	0.5	04/20/13
Ni	10	M10565	1000	0.5	04/20/13
Pb	10	M10142	**10000**	0.05	09/09/12
Sb	20	M10280	1000	1	11/25/12
V	10	M10285	1000	0.5	11/25/12
Zn	10	M10284	**10000**	0.05	11/25/12
K	5000	M10387	**10000**	25	01/22/13
Na	1000	M10570	**10000**	5	04/20/13
As	10	M10281	1000	0.5	11/25/12
Ca	500	M10415	**10000**	2.5	02/10/13
Fe	300	M10417	**10000**	1.5	02/10/13
Se	10	M10277	1000	0.5	11/25/12
Tl	20	M10566	1000	1	04/20/13
Sr	10	M10569	1000	0.5	04/20/13
Ti	10	M10566	1000	0.5	04/20/13
Li	20	M10567	1000	1	04/20/13
Sn	10	M10562	1000	0.5	04/20/13
B	10	M10275	1000	0.5	11/25/12
Si	30	M10564	1000	1.5	04/20/13
W	50	M10559	1000	2.5	04/20/13

= 1000 ug/L std

),

2/13)

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard

Bring up to mark w/ DI H2O

#M10595 11/11/11 SF — Hg Working Stds: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
M10604 11-16-11 SF

#M10596 11/11/11 SF — Hg Alt Source Working Std: (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg
M10605 11-16-11 SF

#M10597 11/11/11 SF — Hg ICV / LCSW (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M 10596) into 100ml = 3.0ug/L Hg

#M10598 11/11/11 SF — Hg CCV (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
M10606 11-16-11 SF

#M10599 11/11/11 SF — Hg MRL: (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M 10596) into 100ml = 0.2ug/L Hg

#M10600 11/11/11 SF — Hg Aqua Regia Reagent:
"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)
M10607

#M10601 11/11/11 SF — Stannous Chloride Reagent:
Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M10[illegible]) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.
11-16-11 SF

#M10602 11/14/11 SF ex 11-14-12: TCLP Extraction Fluid #1 onto 20 L carboy pipet [illegible] Glacial Acetic Acid #AB.534, + 128.6 mL 1N NaOH Dilute to 20L with DI H2O and [illegible] pH = 4.93 ± .05.
M10608 HNO3 + HCL

#M10603 SF 11-16-11 DoD Cal Stds

ICAP Working Standards

.5% HNO3 .5%HCL

ex 6/12

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M10334(ex 6/12) and 1.0 mls of #M10470 (ex 09/12) into 1000 ml volumectric flask= 100 ug/L std
1000	10.0 mls of #M10334(ex 6/12) and 1.0 ml of #M10310 Ag, #M10568 Be,#M10278 Cd and #M10564 Si into 1000 ml volumetric flask = 1000 ug/L
10,000	100 mls #M10334 (ex 6/12),10 mls #M10568 Be (ex 4/13),10 mls #M10278 Cd (ex 11/12)
100k	10 mls of #M10144 Cu (ex 9/12) , 10 mls of #M10141 Mn (ex 9/12) , 10 mls of #M10139 Cr (ex 9/12), 10 mls #M10142 Pb (ex 9/12)
	10 mls #M10284 Zn (ex 11/12) = 100,000 ug/L
100,000	10 mls of #M10418 Mg (ex 02/13) , 10 mls of #M10417 Fe (ex 02/13) ,10 mls of #M10415 Ca (ex 2/13),10 mls #M10416 AL (ex 2/13)
	10 mls #M10570 Na (ex 4/13) into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M10418 Mg (ex 4/13) , 50 mls of #M10417 Fe (ex 02/13) ,50 mls of #M10415 Ca (ex 2/13), 50 mls #M10416 AL (ex 2/13)
	into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M10418 Mg (ex 02/13) , 100 mls of #M10417 Fe (ex 2/13) ,100 mls of #M10415 Ca (ex 2/13),100 mls #M10416 AL (ex 2/13)
	Into 1000 ml vol flask = 1,000,000 ug/l std
	Bring the 1000 ml volumetric up to mark with DI H2O

#M10565 10-28-11 Nickel 1000mg/L CPI Lot # HG015 ex 4/13
M

#M10566 10-28-11 Thallium 1000mg/L CPI lot # 11F194 ex 4/13
M

#M10567 10-28-11 Lithium 1000mg/L CPI lot # 11E088 ex 4/13
M

#M10568 10-28-11 Beryllium 1000 mg/L CPI lot # 11F239 ex 4/13
M

#M10569 10-28-11 Strontium 1000 mg/L CPI Lot # 11D191 4/13
M

#M10570 10-28-11 Na 10,000 mg/L CPI Lot # 11103204/13
M

#M10571 10-28-11 NaOH Fisher Lot # 112665 ex 10-28-12
M

#M10572 Stannous Chloride fisher lot # 113509 ex 10-28-12
M 10-28-11

#M10573 10-28-11 Potassium Persulfate Lot # 11346 ex 10-28-13
M

#M10574 11/01/11 SF Potassium permanganate: 50g Potassium permanganate (#M9903) dissolved into 1000mL D.I. H2O. Exp: 05/01/12

#M10575 11/01/11 SF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10576 11/01/11 SF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10577 11/01/11 SF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10576) into 100ml = 3.0ug/L Hg
#M10578 11/01/11 SF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10579 11/01/11 SF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10576) into 100ml = 0.2ug/L Hg
#M10580 11/07/11 SF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)
#M10591 11/01/11 SF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M10326) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10549 TCLP Extraction fluid #1 Into 20 Liter Carboy, piped 114 ml
Glacial Acetic Acid (AB-534) and 128.6 mls 10N. NaOH #M10538
10-26-11 Dilute to 20L with DI H_2O + mix PH= 4.93 ± 0.05.

43-2AS
#M10550 - Int-A . Spex Certiprep Lot# ~~1-169MG2~~ exp Oct 3, 2012
10-26-11 10-26-11

#M10551 Magnesium Nitrad Matrix Modifier Soln. 20,000 mg/L Mg
10-26-11 Spex Certiprep Lot # 1-169MG2.

#M10552 10/26/11 GE	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10553 10/26/11 GE	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10554 10/26/11 GE	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10553) into 100ml = 3.0ug/L Hg
#M10555 10/26/11 GE	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10556 10/26/11 GE	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10553) into 100ml = 0.2ug/L Hg
#M10557 10/26/11 GE	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)
#M10558 10/26/11 GE	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10559 10-28-11 Tungsten 1000 mg/L CPI Lot# 11E122 exp 4/13
#M10560 10-28-11 Molybdenum 1000 mg/L CPI Lot # 10L090 exp 4/13
#M10561 10-28-11 Cobalt 1000 mg/L CPI Lot # 11H211 exp 4/13
#M10562 10-28-11 Tin 1000 mg/L CPI Lot# 11E120 exp 4/13
#M10563 10-28-11 Hg 1000 mg/L CPI Lot# 11J054 exp 4/13
#M10564 10-28-11 Si 1000 mg/L CPI Lot# 11F032 exp 4/13

#M10493 09/23/11 13F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
4ml L 2:7. H_2O #M10494 09/23/11 13F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
up to #M10495 09/23/11 13F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10494) into 100ml = 3.0ug/L Hg
09/23/11 13F GE #M10498 09/23/11 13F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
09/23/11 13F 7 #M10496 09/23/11 13 F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10494) into 100ml = 0.2ug/L Hg
09/23/11 13F 8 #M10497 09/23/11 13 F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)
09/23/11 13F 9 #M10498 09/23/11 13F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10500 09/23/11 GE — Turbidity Working Standards: Into 20 mls pipet from #M10200 (200 NTU)

Gel Ex Stds.	
3.88	2.0 ~~20~~ mL into 18 mL D.I. H_2O = 20 NTU (09/23/11 GE)
50.7	10 mL into 10 mL D.I. H_2O = 100 NTU
521	20 mL into 0 mL D.I. H_2O = 200 NTU

(Exp. Sep-12)

#M10501 09/26/11 GE — NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574CE) and 60g Hydroxylamine Sulfate (#M10210) in 500mL Milli-Q H_2O. Exp. 03-26-12

#M10502 09/23/11 AMA — Potassium Permanganate - 50g Potassium Permanganate (#M9903) dissolved into 1000mL of D.I. H_2O. Exp. 03/28/12

#M10503 9-30-11 — Custumer Assurance Std Spex Certiprep lot #9-84CR ex Sept 30 2012.

#M10504 A 9-30-11 — (Fisher) Hydroxylamine Sulfate lot # 111789 ex 9-30-12.

#M10505 10/03/11 AMA — TCLP Extraction Fluid #1 - Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-534) and 128.6mL 10N NaOH (#M10296). Dilute to 20L with D.I. H_2O and mix. The pH= 4.93±0.05. Exp. 10/03/12

#M10469 09/07/11 XSPIKE-1-250 Spex CertiPrep Lot No. 4-42YP Exp. 09-15-2012
GLE

#M10470 09/07/11 XCTW1-4-500 Spex CertiPrep Lot No. 4-41YP Exp. 09-15-2012
GLE

#M10471 09/08/11 GFAA LOD/LOQ Water Spiking Soln: Into a 1 L vol. flask, pipet 10 mL of
GLE (1% HNO_3) #M10286 and 1 mL #M10472
Expires 11-15-11

#M10472 09/08/11 GFAA Ag Working Std. Into a 100 mL vol. flask, partially filled with D.I.
GLE (1% HNO_3) H_2O, pipet the following and bring up to volume
Exp. 12-08-12 with D.I. H_2O.
1.0 mL Ag (1000 mg/L) #M10310 = 10,000 µg/L Ag

#M10473 09/08/11 GFAA LOD/LOQ Soil Spiking Soln: Into a 1 L vol. flask, pipet 10 mL of
GLE Exp. 11-15-11 #M10289 and 0.6 mL #M10472. Bring
(1% HNO_3) up to volume with D.I. H_2O.

#M10474 09/12/11 Hg Working Stds:
AMA (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M10475 09/12/11 Hg Alt Source Working Std:
AMA (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M10476 09/12/11 Hg ICV / LCSW
AMA (0.2% HNO3, HCl)
3.0ml of 100ug/L Hg (#M10475) into 100ml = 3.0ug/L Hg

#M10477 09/12/11 Hg CCV
AMA (0.2% HNO3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M10478 09/12/11 Hg MRL:
AMA (0.2% HNO3, HCl)
0.2ml of 100ug/L Hg (#M10475) into 100ml = 0.2ug/L Hg

#M10479 09/12/11 Hg Aqua Regia Reagent:
AMA "Carefully" in hood, mix 3 parts HCl (AB: 537) with 1part HNO3 (AB: 536)

#M10480 09/12/11 Stannous Chloride Reagent:
AMA Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 537). Bring up to volume with D.I. Water.

#M10481 09/12/11 Hg LOQ/LOD spiking soln (water) - 1.0 mL of 1000 mg/L Hg (#M9954) into 100 mL = 10 mg/L Hg
AMA 1.0 mL of 10 mg/L Hg into 100 mL = 100 µg/L Hg
5.0 mL of 100 µg/L Hg into 100 mL = 5.0 µg/L Hg

#M10461
9-6-11 JY

ICAP Working Standards

5% HNO3 5%HCL

Standard name	Pipet the following respectively:
0.25	0.25 mls of standard 100 ug/L into 1000 ml volumetric flask = 0.25 ug/L std
0.5	0.50 mls of standard 100 ug/L into 1000ml volumentric flask= 0.50 ug/L std
1	1.0 mls of standard 100ug/L into 1000 ml volumentrc flask =1.00 ug/L std
5	5.0 mls of standard 100ug/L into 1000 ml volumentrc flask =5.00 ug/L std
10	10.0 mls of standard 100ug/L into 1000 ml volumentrc flask =10.0 ug/L std
20	20.0 mls of standard 100ug/L into 1000 ml volumentrc flask =20.0 ug/L std
50	50.0 mls of standard 100ug/L into 1000 ml volumentrc flask =50.0 ug/L std
100	1.0 mls of #M10334(ex 6/12) and 1.0 mls of #M9816 (ex 8/11) into 1000 ml volumectric flask= 100 ug/L std
~~500~~	~~5.0 mls of #M10334(ex 6/12) and 5.0 mls of #M9816 (ex 8/11) into 1000 ml volumetric flask= 500 ug/L std~~ JY 9-6-11
1000	10.0 mls of #M10334(ex 6/12) and 1.0 ml of #M10310 Ag,#M9930 Be,#10278 Cd and #M9915 Si into 1000 ml volumetric flask= 1000 ug/L std
10,000	100 mls #M10334 (ex 6/12),10 mls #M9930 Be ex (11/15/11),10 mls #M10278 Cd ex 11/25/11
100k	10 mls of #M10144 (Cu) (ex 9/12) , 10 mls of #M10141 (Mn)(ex 9/12) , 10 mls of #M10139 (Cr)(ex 9/12), 10 mls #M10142 (Pb)(ex 9/12) 10 mls #M10284 (Zn)(ex 11/12) = 100,000 ug/L
100,000	10 mls of #M10312 (Mg) (ex 12/12) , 10 mls of #M10417 (Fe) (ex 02/13) ,10 mls of #M10415 (Ca)(ex 2/13),10 mls #M10416 (AL)(ex 2/13) 10 mls #M9932 Na ex 11/15/11 into 1000 ml vol flask = 100,000 ug/l std
500,000	50 mls of #M10312 (Mg) (ex 12/12) , 50 mls of #M10417 (Fe) (ex 02/13) ,50 mls of #M10415 (Ca)(ex 2/13),50 mls #M10416 (AL)(ex 2/13) into 1000 ml vol flask = 500,000 ug/l std
1000k	100 mls of #M10312 (Mg) (ex 12/12) , 100 mls of #M10417 (Fe) (ex 2/13) ,100 mls of #M10415 (Ca)(ex 2/13),100 mls #M10416 (AL)(ex 2/13) into 1000 ml vol flask = 1,000,000 ug/l std

Bring the 1000 ml volumetric up to mark with DI H2O

#M10462 09/06/11 GE — NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574) and 60g Hydroxylamine Sulfate (#M10210) in 500ml with DI H2O. Exp: 03/06/12

#M10463 09/06/11 GE — Potassium persulfate: 50g Potassium persulfate (#M9814) dissolve in 1000ml D.I. H2O. Exp: 03/06/12

#M10465 09/07/11 GE — GFAA Base Std (25µg/L) 18% HNO3 6% HCL — Pipet 5.0mL of 1000µg/L Sb (#M10184) into a 200mL vol. flask and bring up to volume with Milli-Q H2O. Exp. 04-01-12

#M10466 09/07/11 GE — GFAA Alt. Source (10µg/L) 18% HNO3 6% HCL — Pipet 10mL of 200µg/L Sb (#M10185) into a 200mL vol. flask and bring up to volume with Milli-Q H2O. Exp. 04-01-12.

#M10467 09/07/11 GE — GFAA CCV Std. (10µg/L) 18% HNO3 6% HCL — Pipet 2mL of 1000µg/L Sb (#M10184) into a 200mL vol. flask and bring up to volume with Milli-Q H2O. Exp. 04-01-12

#M10468 09/07/11 GE — GFAA Sb MDL ✓ 18% HNO3 6% HCL — Pipet 4mL of 10µg/L Sb (#M10467) into a 50mL vol. flask and bring up to volume with Milli-Q H2O. Exp. 04-01-12

#M10469 09 GE

#M10470 09 GE

#M10471 09 GE

#M10472 GE

#M10473 GE

#M10418 08/16/11 Mg 10,000 µg/mL, CPI International Lot No. 11G018, Exp. 02-10-13. #M1043
GE

#M10419 08/17/11 SPLP Extraction Fluid #1: Into a 20L carboy, add D.I. H_2O to mark and adjust pH to 4.20±0.05 with #M10068
GE

#M10420 08/18/11 SPLP Extraction Fluid #1: Into a 20L carboy, add D.I. H_2O to mark and adjust pH to 4.20±0.05 with #M10068 #M10432
GE

#M10421 08/21/11 TCLP Extraction Fluid #1: Fill a 20L carboy with 8L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.534) and 128.6mL 10N NaOH (#M10296). Dilute to 20L with D.I. H_2O and mix. pH=4.93±0.05. Exp. 08/21/12 #M10433
GE #M10434
GE

#M10422 08/22/11 15F NaCl Hydroxylamine Sulfate reagent: Dissolve 60g NaCl (#M9574) and 60g Hydroxylamine Sulfate (#M10210) in 500mL milli-Q H_2O. #M10435
GE
Exp: 02/22/12 #M10436
GE

#M10423 08/22/11 15F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10424 08/22/11 15F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10425 08/22/11 15F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10424) into 100ml = 3.0ug/L Hg
#M10426 08/22/11 15F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10427 08/22/11 15F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10424) into 100ml = 0.2ug/L Hg
#M10428 08/22/11 15F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 532) with 1part HNO3 (AB: 533)
#M10429 08/22/11 15F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (#M10326 (g)) in 70 mL HCl (AB: 532). Bring up to volume with D.I. Water.

#M10437 #M10438
GE #M10439

#M10430 8/24/11 15F TCLP Extraction Fluid #1: Fill a 20L carboy with 18L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB.534) and 128.6mL 10N NaOH (#M10296). Dilute to 20L with D.I. H_2O and mix. pH=4.93±0.05 08/24/11 15F
Exp: 08/24/12

#M104040 08/08/11 SF — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 532). Bring up to volume with D.I. Water.

#M104105 08/08/11 SF — Na Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574a) and 60g Hydroxylamine Sulfate (#M9831) in 500mL milli-Q H_2O.
Exp: 02/08/12

M104106 8-9-11 — Environmental Express Y 10,000 mg/L Lot # 1104E07
ex Feb 2013

#M104107 08/15/11 SF — Hg Working Stds: (0.2% HNO_3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

#M104108 08/15/11 SF — Hg Alt Source Working Std: (0.2% HNO_3, HCl)
1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg
1.0ml of 10mg/L into 100ml = 100ug/L Hg

#M104109 08/15/11 SF — Hg ICV / LCSW (0.2% HNO_3, HCl)
3.0ml of 100ug/L Hg (#M 104108) into 100ml = 3.0ug/L Hg

#M104110 08/15/11 SF — Hg CCV (0.2% HNO_3, HCl)
1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg
1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg

#M104111 08/15/11 SF — Hg MRL: (0.2% HNO_3, HCl)
0.2ml of 100ug/L Hg (#M 104108) into 100ml = 0.2ug/L Hg

#M104112 08/15/11 SF — Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 532) with 1part HNO_3 (AB: 533)

#M104113 08/15/11 SF — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 532). Bring up to volume with D.I. Water.

#M104114 08-16-11 GAE — Turbidity Working Stds; Into 20mL pipet from #M10200 (200 NTU)
Get Ex. Stds
3.88
50.7
521
2.0mL into 18mL D.I. H_2O = 20 NTU
10 mL into 10mL D.I. H_2O = 100 NTU
20mL into 0mL D.I. H_2O = 200 NTU
(Exp. Sep-12)

#M104115 08-16-11 GAE — Ca 10,000 µg/mL, CPI International Lot No. 11F031, Exp. 02-10-13

#M104116 08-16-11 GAE — Al 10,000 µg/mL, CPI International Lot No. 11F262, Exp. 02-10-13

#M104117 08-16-11 GAE — Fe 10,000 µg/mL, CPI International Lot No. 11F186, Exp. 02-10-13

#M10379 07/26/11 BF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10380 07/26/11 BF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10381 07/26/11 BF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10380) into 100ml = 3.0ug/L Hg
#M10382 07/26/11 BF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10383 07/26/11 BF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10380) into 100ml = 0.2ug/L Hg
#M10384 07/26/11 BF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 532) with 1part HNO3 (AB: 533)
#M10385 07/26/11 BF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M10326 (a)) in 70 mL HCl (AB: 532). Bring up to volume with D.I. Water.

#M10386 07/27/11 AMA — Tclp Extraction Fluid #1 – Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-534) and 128.6mL 10N NaOH (#M10043). Dilute to 20L with D.I. H_2O and mix. pH=4.93 ± 0.05. Exp. 07/27/12

#M10387 07/28/11 GLE — 10,000 ±30 µg/mL K. CPI International Lot No. 11G005 Expires: 01-22-13

#M10388 07/29/11 BF — Potassium Permanganate Sol'n: 50g potassium permanganate (#M9903) dissolve into 1,000 mL of D.I. H_2O. Exp: 01/29/12

#M 10330 6-22-11 5000ug/L CCV1 Into 1 liter vol flask pipet 50mb #M10341
1% HNO3 #M10064, 5mb #M9930, 5mb #M10278 bring up to mark with
1% HCL DI H2O. ex 11/11.

#M10331 06/22/11 Stannous Chloride Reagent - Into a 1000 mL vol. flask, dissolve 100g Stannous #M10342
GE Chloride (#M10326a) in 70 mL HCL (AB-532)
Bring up to volume with D.I. H2O. Exp. 12-22-1

#M10332 6-23-11 working stds List 2. Into 5; One liter vol flasks pipet
Respectfully
1% HCL
1% HNO3
1ug/L → .01mb M10064 & .001mb M9925 #M10343
10ug/L → .1 mb M10064 & .01mb M9925
100ug/L → 1mb M10064 & .1mb M9925
also CCV → 1000ug/L → 10mb M10064 & 1mb M9925 #M10344
10,000 ug/L → 100mb M10064 & 10mb M9925
Bring up to Mark with DI H2O ex 11/11. #M10345

#M10333 ICV/LCSW List 2 Into 1 liter vol flask pipet 5.0mb #M10346
1% HCL 6-23-11 5.0 mb of M9923, M9929, M9926, M10140, M9933. Bring
1% HNO3 up to Mark with DI H2O ex 11/11 #M10347
#M10348

#M10334 Custum Assurance Std. 100ug/L Spex lot # 3-61PP.
6-23-11 #M10349

#M10335 06/23/11 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg	**Note: ALL Hg standards made up/prepped on 06/22/11. AMA
#M10336 06/23/11 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg	
#M10337 06/23/11 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10336) into 100ml = 3.0ug/L Hg	
#M10338 06/23/11 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg	
#M10339 06/23/11 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10336) into 100ml = 0.2ug/L Hg	
#M10340 06/23/11 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 532) with 1part HNO3 (AB: 533)	

#M10350 GE

#M10325 06/16/11 Working standards for Sodium and Potassium: Into 7, 200mL Volumetric flasks,
AMA 2.5% HNO_3 pipet from #M10311 and #M10315.
2.5% HCL

for The 0.5mg/L std - 0.1mls each
- Bring up to mark 1.0mg/L std - 0.2mls each
with D.I.H_2O 5.0mg/L std - 1.0mls each
- Exp. 12/08/12 10.0mg/L std - 2.0mls each
50.0mg/L std - 10.0mls each
100.0mg/L std - 20mls each, also used for continuing calibration standard (ccv)
200.0mg/L std - 40.0mls each

#M10326 06-16-11 Tin (II) Chloride Dihydrate Fisher Lot No. 108259
GE

#M10327 06/20/11
AMA

1% HNO_3
1% HCL

MRL Std
Base SPIKE PREPARATION 50x

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	MRL (ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L	Expiration Date
Ag	10	M10310	1000	0.5	12/08/12
Al	400	M9866	10000	2	10/15/11
Ba	10	M10143	1000	0.5	09/09/12
Be	4	M9930	1000	0.2	11/15/11
Cd	5	M10278	1000	0.25	11/25/12
Co	10	M9928	1000	0.5	11/15/11
Cr	10	M10139	10000	0.05	09/09/12
Cu	10	M10144	10000	0.05	09/09/12
Mg	500	M10282	10000	2.5	11/25/12
Mn	10	M10141	10000	0.05	09/09/12
Mo	10	M9931	1000	0.5	11/15/11
Ni	10	M9927	1000	0.5	11/15/11
Pb	10	M10142	10000	0.05	09/09/12
Sb	20	M10280	1000	1	11/25/12
V	10	M10285	1000	0.5	11/25/12
Zn	10	M10284	10000	0.05	11/25/12
K	5000	M9863	10000	25	10/15/11
Na	1000	M9932	10000	5	11/15/11
As	10	M10281	1000	0.5	11/25/12
Ca	500	M9865	10000	2.5	10/15/11
Fe	300	M10276	10000	1.5	11/25/12
Se	10	M10277	1000	0.5	11/25/12
Tl	20	M9922	1000	1	11/15/11
Sr	10	M9926	1000	0.5	11/15/11
Ti	10	M9923	1000	0.5	11/15/11
Li	20	M9929	1000	1	11/15/11
Sn	10	M10140	1000	0.5	09/09/12
B	10	M10275	1000	0.5	11/25/12
Si	30	M9956	1000	1.5	11/30/11
W	50	M9924	1000	2.5	11/15/11

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

#M10328 06/20/11 CCV 2: Icp DoD cal, Into a 1L volumetric flask, pipet 5mLs ~~#M9816~~ M10064 and
AMA 1% HNO_3 0.5mL #M9815. Bring up to mark with D.I.H_2O. 6/20/11 AMA
1% HCL Exp. 08/30/11

#M10329 06-22-11 ICSAB. into 500ml vol. flask pipet 50 mls of M9955, 25 mls
1% HNO_3 #M10064, 2.5 mls M9815 5 mls M9545, 0.5 mls M9933. Bring up to
1% HCL mark with DI H_2O. ex 8/11.

#M10302 06/13/11 3F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10304 06/13/11 3F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10305 06/13/11 3F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M 10304) into 100ml = 3.0ug/L Hg
#M10306 06/13/11 3F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10307 06/13/11 3F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M 10304) into 100ml = 0.2ug/L Hg
#M10308 06/13/11 3F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 529) with 1part HNO3 (AB: 527)
#M10309 06/13/11 3F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M9785C) in 70 mL HCl (AB: 529). Bring up to volume with D.I. Water.

#M10317 c AMA

#M10318 a AMA

#M10310 06/15/11 Ag 1000 µg/mL CPI Lot No. 11E160 Exp. 12/08/12
AMA

#M10311 06/15/11 K 1000 µg/mL CPI Lot No. 11D019 Exp. 12/08/12
AMA

#M10312 06/15/11 Mg 10,000 µg/mL CPI Lot No. 11B221 Exp. 12/08/12
AMA

#M10319 c AMA

#M10313 06/15/11 K 1000 µg/mL CPI Lot No. 11D019 Exp. 12/08/12
AMA

#M10314 06/15/11 Fe 10,000 µg/mL CPI Lot No. 11C277 Exp. 12/08/12
AMA

#M10320 c AMA

#M10315 06/15/11 Na 1000 µg/mL CPI Lot No. 11C114 Exp. 12/08/12
AMA

#M10316 06/15/11 Na 1000 µg/mL CPI Lot No. 11C114 Exp. 12/08/12
AMA

#M10283 06/03/11 Na 1,000 µg/mL CPI Lot No. 11C114 Exp. 11/25/12
AMA

#M10284 06/03/11 Zn 10,000 µg/mL CPI Lot No. 11D067 Exp. 11/25/12
AMA

#M10285 06/03/11 V 1,000 µg/mL CPI Lot No. 11B146 Exp. 11/25/12
AMA

#M10286 06/07/11 GFAA LOD/LOQ Water Working Std: Into a 100 mL vol. flask, partially filled with D.I. H_2O, pipet the following and bring up to volume with D.I. H_2O.
GVE (1% HNO_3)
Expires: 11-15-11
1.5 mL Sb (1000 mg/L) #M10280 = 15,000 µg/L Sb
1.0 mL As (1,000 mg/L) #M10281 = 10,000 µg/L As
2.0 mL Se (1,000 mg/L) #M10277 = 20,000 µg/L Se
0.045 mL Pb (10,000 mg/L) #M10142 = 4,500 µg/L Pb
0.4 mL Tl (1,000 mg/L) #M9922 = 4,000 µg/L Tl

#M10287 06/07/11 GFAA LOD/LOQ Water Ag Working Std: Into a 100 mL vol. flask, partially filled with D.I. H_2O, pipet the following and bring up to volume with D.I. H_2O.
GVE (1% HNO_3)
Expires: 06-15-11
1.0 mL Ag (1,000 mg/L) #M9608 = 10,000 µg/L Ag

#M10288 06/07/11 GFAA LOD/LOQ Water Spiking Sol'n: Into a 1 L vol. flask, pipet 10 mL of #M10286 and 1 mL #M10287.
GVE (1% HNO_3)
Expires: 06-15-11 (Ag only)

#M10289 06/07/11 GFAA LOD/LOQ Soil Working Std: Into a 200 mL vol. flask, partially filled with D.I. H_2O, pipet the following and bring up to volume with D.I. H_2O.
GVE (1% HNO_3)
Expires: 11-15-11
1.2 mL Sb (1000 mg/L) #M10280 = 6,000 µg/L Sb
3.2 mL As (1000 mg/L) #M10281 = 16,000 µg/L As
3.2 mL Se (1,000 mg/L) #M10277 = 16,000 µg/L Se
0.08 mL Pb (10,000 mg/L) #M10142 = 4,000 µg/L Pb
1.0 mL Tl (1,000 mg/L) #M9922 = 5,000 µg/L Tl

#M10290 06/07/11 GFAA LOD/LOQ Soil Ag Working Std: Into a 200 mL vol. flask, partially filled with D.I. H_2O, pipet the following and bring up to volume with D.I. H_2O.
GVE (1% HNO_3)
Expires: 06-15-11
1.2 mL Ag (1000 mg/L) #M9608 = 6,000 µg/L Ag

#M10291 06/07/11 GFAA LOD/LOQ Soil Spiking Sol'n: Into a 1 L vol. flask, pipet 10 mL of #M10289 and 1 mL #M10290. Bring up to volume with D.I. H_2O.
GVE Expires: 06-15-11 (Ag only)
(1% HNO_3)

#M10269 05/27/11 Hg Aqua Regia Reagent: "carefully" in hood, mix 3 parts HCL (AB:532) with 1 part HNO_3 (AB:533).
AMA

#M10270 05/27/11 Stannous chloride Reagent: Into a 1000mL volumetric flask, dissolve 100g stannous chloride (#M9785F) in 70mL HCL (AB:532). Bring up to volume with D.I. H_2O.
AMA

#M10271 05/27/11 GF Potassium Persulfate: 50g potassium persulfate (#M9894) dissolved into 1000mL D.I. H_2O Exp: 10-27-11

#M10272 05/31/11 SF Potassium Permanganate sol'n: 50g potassium permanganate (#M9903) dissolved into 1000mL of D.I. H_2O. Exp: 11/31/11

#M10273 06/03/11 AMCO clear Turbidity standard 2.0 NTU Lot NO. C141288 Expires 05/2012
AMA

#M10274 06/03/11 Custom Assurance Standard 20,000 mg/L Ca, 10,000 mg/L Mg, Na SPEX CertiPrep Lot NO. 3-30YP Exp. 05/30/2012
AMA

#M10275 06/03/11 B 1,000 µg/mL CPI Lot NO. 11C049 Exp. 11/25/12
AMA

#M10276 06/03/11 Fe 10,000 µg/mL CPI Lot NO. 11C277 Exp. 11/25/12
AMA

#M10277 06/03/11 Se 1,000 µg/mL CPI Lot NO. 10L065 Exp. 11/25/12
AMA

#M10278 06/03/11 Cd 1,000 µg/mL CPI Lot NO. 11B116 Exp. 11/25/12
AMA

#M10279 06/03/11 K 1,000 µg/mL CPI Lot NO. 11D019 Exp. 11/25/12
AMA

#M10280 06/03/11 Sb 1,000 µg/mL CPI Lot NO. 10K242 Exp. 11/25/12
AMA

#M10281 06/03/11 As 1,000 µg/mL CPI Lot NO. 11E058 Exp. 11/25/12
AMA

#M10282 06/03/11 Mg 10,000 µg/mL CPI Lot NO. 11B035 Exp. 11/25/12
AMA

#M10283 06/
AMA

#M10284 06/0
AMA

#M10285 06/0
AMA

#M10286 06/0
GVE

#M10287 06/
GVE

#M10288 0
GVE

#M10289 06/0
GVE

#M10290 0
GVE

#M10291 0
GVE

#M10240 05/10/11 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial
GVE Exp. 05-10-12 Acetic Acid (AB-516) and 128.6mL 10N NaOH (#M10043).
Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05

#M10241 05/11/11 Stannous Chloride, Ricca Chemical Company Lot No. 1104175
GVE Exp. April 2013

#M10242 05/13/11 Potassium Persulfate: 50g Potassium persulfate (#M9814) dissolved into
L3F 1000mL D.I. H_2O.
Exp. 11/13/11

#M10243 05/13/11 L3F	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10244 05/13/11 L3F	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10245 05/13/11 L3F	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10244) into 100ml = 3.0ug/L Hg
#M10246 05/13/11 L3F	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10247 05/13/11 L3F	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10244) into 100ml = 0.2ug/L Hg
#M10248 05/13/11 L3F	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 529) with 1part HNO3 (AB: 527)
#M10249 05/13/11 L3F	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M9785C) in 70 mL HCl (AB: 529). Bring up to volume with D.I. Water.

#M10250 05/16/11 Potassium Permanganate Soln – 50g Potassium Permanganate (#M9903)
AMA dissolved into 1000mL D.I. H_2O. Exp. 11/16/11

#M10251 05/16/11 NaCl Hydroxylamine Sulfate Reagent – Dissolve 60g NaCl (#M9574b) and
AMA 60g Hydroxylamine Sulfate (#M10210)
in 500mL Milli-Q H_2O. Exp. 11/16/11

#M10252 05/18/11 TCLP Extraction fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial
AMA Acetic Acid (AB-534) and 128.6mL 10N NaOH (#M10043).
Dilute to 20L with D.I. H_2O and mix. pH = 4.93 ± 0.05

#M10225 05/02/11 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10226 05/02/11 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10227 05/02/11 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10226) into 100ml = 3.0ug/L Hg
#M10228 05/02/11 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10229 05/02/11 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10226) into 100ml = 0.2ug/L Hg
#M10230 05/02/11 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 529) with 1part HNO3 (AB: 527)
#M10231 05/02/11 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M9785C) in 70 mL HCl (AB: 529). Bring up to volume with D.I. Water.

#M10232 05/06/11 : Custom Assurance Standard 20,000 mg/L Ca, 10000 mg/L Mg, Na
GAE Spex CertiPrep Lot No. 2-176YP Exp. 04-30-12

#M10233 05/09/11 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10234 05/09/11 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10235 05/09/11 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10234) into 100ml = 3.0ug/L Hg
#M10236 05/09/11 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10237 05/09/11 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10234) into 100ml = 0.2ug/L Hg
#M10238 05/09/11 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 529) with 1part HNO3 (AB: 527)
#M10239 05/09/11 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M9785C) in 70 mL HCl (AB: 529). Bring up to volume with D.I. Water.

#M10196 04/12/11 AMA — Hg Aqua Regia Reagent: "Carefully" in hood, mix 3 parts HCl (AB: 524) with 1part HNO3 (AB: 527)

#M10197 04/12/11 AMA — Stannous Chloride Reagent: Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M9785~~D~~) in 70 mL HCl (AB: 524). Bring up to volume with D.I. Water. C 4/12/11 AMA

#M10198 04/12/11 AMA Potassium Permanganate soln - 50g Potassium Permanganate (#M8969) dissolved into 1000mL D.I. H_2O. Exp. 10/12/11

#M10199 04/12/11 AMA Nacl Hydroxylamine Sulfate ~~Soln~~ Reagent 04/12/11 AMA - Dissolve 60g Nacl (#M9574(A)) and 60g Hydroxylamine Sulfate (#M9831) in 500mL Milli-Q H_2O. Exp. 10/12/11

#M10200 04/13/11 GLE Hach StablCal Std 200 NTU Lot No. A0260 Exp. Sep-12

#M10201 04/13/11 GLE Turbidity Working Stds: Into 20 mLs pipet from #M10200 (200 NTU)

Gel Ex Stds:

4.31	2.0mL into 18mL D.I. H_2O = 20 NTU
51.1	10mL into 10mL D.I. H_2O = 100 NTU
522	20mL into Ø mL D.I. H_2O = 200 NTU
	(Exp. Sep-12)

#M10202 04/14/11 GLE TCLP Extraction Fluid #1: Fill a 20 L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB-516) and 128.6 mL 10N NaOH (#M10043), Dilute to 20L with D.I. H_2O & mix, pH = 4.93 ± 0.05 Exp. 04/14/12

#M10131 03/14/11 LSF	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg
#M10132 03/14/11 LSF	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg
#M10133 03/14/11 LSF	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M10132) into 100ml = 3.0ug/L Hg
#M10134 03/14/11 LSF	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9954) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg
#M10135 03/14/11 LSF	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M10132) into 100ml = 0.2ug/L Hg
#M10136 03/14/11 LSF	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 521) with 1part HNO3 (AB: 525)
#M10137 03/14/11 LSF	Stannous Chloride Reagent:	Into a 1000 mL volumetric flask, dissolve 100g Stannous Chloride (# M9785D) in 70 mL (AB-521). Bring up to volume with D.I. Water.

#M10138 3-17-11 ICV/LCSW (DOCal) Ondo 1 Liter vol flask. pipet 10mls #M10065, 3mls #M9955, 0.5mls #M9931 Bring up to mark with DI H_2O. ex NOV 2011.
TA

#M10139 03/21/11 Cr 10,000 µg/mL CPI Lot No. 10E013 Exp. 09-09-12
GLE

#M10140 03/21/11 Sn 1,000 µg/mL CPI Lot No. 10K034 Exp. 09-09-12
GLE

#M10141 03/21/11 Mn 10,000 µg/mL CPI Lot No. 11A002 Exp. 09-09-12
GLE

#M10142 03/21/11 Pb 10,000 µg/mL CPI Lot No. 10D176 Exp. 09-09-12
GLE

#M10143 03/21/11 Ba 1,000 µg/mL CPI Lot No. 11B128 Exp. 09-09-12
GLE

#M10144 03/21/11 Cu 10,000 µg/mL CPI Lot No. 10F007 Exp. 09-09-12
GLE

#M101
#M10144
G
#M10147
#M10149
#M10150
#M10151
#M10152
#M10153
#M10154

#M9930 11/23/10 Be 1000 mg/L Spex Certi Prep Lot No. 15-127BE Exp. 11-15-11 #M9943
GVE

#M9931 11/23/10 Mo 1000 mg/L Spex CertiPrep Lot No. 15-110MO Exp. 11-15-11
GVE

#M9932 11/23/10 Na 10,000 mg/L Spex CertiPrep Lot No. AE12-119NA Exp. 11-15-11 #M9944
GVE

#M9933 11/23/10 W 1000 µg/mL SCP Science Lot No. SC0301406 Exp. 08/2012 #M9945 11
GVE

#M9934 11/23/10 Spike Sample Standard 1 Lot No. 42-80 As Exp. 11-15-11
GVE

#M9935 11/23/10 AMA	Hg Working Stds: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg	#M9946 GVE #M9947 GVE #M9948 11 GVE
#M9936 11/23/10 AMA	Hg Alt Source Working Std: (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9063) into 100ml = 10mg/L Hg 1.0ml of 10mg/L into 100ml = 100ug/L Hg	#M9949 11 GVE
#M9937 11/23/10 AMA	Hg ICV / LCSW (0.2% HNO3, HCl)	3.0ml of 100ug/L Hg (#M9936) into 100ml = 3.0ug/L Hg	#M9950 GVE 11/23/10 GVE
#M9938 11/23/10 AMA	Hg CCV (0.2% HNO3, HCl)	1.0ml of 1000mg/L Hg (#M9257) into 100ml=10mg/L Hg 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg 3.0ml of 100ug/L Hg into 100ml = 3.0ug/L Hg	#M9951 Tc
#M9939 11/23/10 AMA	Hg MRL: (0.2% HNO3, HCl)	0.2ml of 100ug/L Hg (#M9936) into 100ml = 0.2ug/L Hg	
#M9940 11/23/10 AMA	Hg Aqua Regia Reagent:	"Carefully" in hood, mix 3 parts HCl (AB: 514) with 1part HNO3 (AB: 515)	#M9952 Tcl

#M9941 11/23/10 AMA NaCl Hydroxylamine Sulfate Reagent: Dissolve 60g NaCl (#M9574(1)) and 60g Hydroxylamine Sulfate (#M9831) in 500mL Milli-Q H_2O. Exp. 05/23/10 #M9953 TCM 12/01/10 GVE

#9942 11/24/10 GVE Stannous Chloride Reagent: Into a 1000mL vol. flask, dissolve 100g Stannous Chloride (#M9785b) in 70mL HCL (AB.514). Bring up to volume with DI H_2O. Exp. 11-24-11

#M9062 GLE 07/11/09 TCLP Extraction Fluid #1: Fill a 20L Carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9033) Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 7-12 ~~07/14/09~~ GLE

#M9063 GLE Mercury Standard (1mg/mL) in 10% HNO_3. ACROS Organics Lot No. A0254552 Exp. 07/28/14

190064 AMA 07/13/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH (#M9033) Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 7/13/10

190065 AMA 07/13/09 TCLP Extraction Fluid #1: Fill a 20L carboy with 19L D.I. H_2O. Add 114mL Glacial Acetic Acid (AB:446) and 128.6mL 10N NaOH. (#M9033) Dilute to 20L with D.I. H_2O and mix. The pH = 4.93 ± 0.05. Exp. 7/13/10

#M9066 GLE 07/14/09 Potassium Persulfate: 50g Potassium Persulfate (#8228) dissolved into 1000mL D.I. H_2O. Exp. 01/14/10

M9067 GLE 07/14/09 Hg Working Stds: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M8724) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L Hg into 100ml = 100ug/L Hg
- 0.5ml of 100ug/L Hg into 100ml = 0.5ug/L Hg
- 1.0ml of 100ug/L Hg into 100ml = 1.0ug/L Hg
- 2.0ml of 100ug/L Hg into 100ml = 2.0ug/L Hg
- 4.0ml of 100ug/L Hg into 100ml = 4.0ug/L Hg
- 5.0ml of 100ug/L Hg ino 100ml =5.0ug/L Hg
- 10.0ml of 100ug/L Hg into 100ml = 10.0ug/L Hg

M9068 GLE 07/14/09 Hg Alt Source Working Std: (0.2% HNO3, HCl)
- 1.0ml of 1000mg/L Hg (#M8564) into 100ml = 10mg/L Hg
- 1.0ml of 10mg/L into 100ml = 100ug/L Hg

M9069 GLE 07/14/09 Hg ICV/CCV/LCSW: (0.2% HNO3, HCl)
- 3.0ml of 100ug/L Hg (#M 9068) into 100ml = 3.0ug/L Hg

M9070 GLE 07/14/09 Hg MRL:
- 0.2ml of 100ug/L Hg (#M 9068) into 100ml = 0.2ug/L Hg

M9071 GLE 07/14/09 Hg Aqua Regia Reagent:
- "Carefully" in hood, mix 3 parts HCl (AB: 439) with 1part HNO3 (AB: 440)

M9072 GLE 07/14/09 Hg Water MDL ✓ (0.2% HNO_3, HCl)
- 0.04mL of 100µg/L Hg (#M9068) into 100mL = 0.04µg/L Hg

M9073 GLE 07/14/09 Hg LOQ ✓ Water (0.2% HNO_3, HCl)
- 0.13mL of 100µg/L Hg (#M9068) into 100mL = 0.13µg/L Hg

#M9074 GLE 07/14/09 Soil Hg MDL ✓
- 0.03mL of 100µg/L Hg (#M9068) into 100mL = 0.03µg/L Hg

#M9075 GLE 07/14/09 Soil Hg

#M9076 AMA 07/20/09 Hg (0.2

#M9077 AMA 07/20/09 Hg (0.2

#M9078 AMA 7/20/09 Hg (0.2

#M9079 AMA 7/20/09 Hg

#M9080 AMA 7/20/09 Hg

#M9081 AMA 7/20/09 NaCl Hyd

#M9082 GLE 07/20/09 Sodium C

#M9083 GLE 07/20/09 Tin (II) Ch

#M9084 AMA 07/21/09 Potassium

#M9085 AMA 7/21/09 TCLP Extrac Exp. 7

#M9086 AMA 7/21/09 10N NaO

#M9087 AMA 7/21/09 TCLP Extra Exp. 7/21

CHAIN OF CUSTODY,
PM CONFIRMATION
AND
SAMPLE CONDITION FORMS
DOCUMENTS

Rev. 2/2013

CHAIN OF CUSTODY

Company: Weston
Project Contact: Jess Anderson
Telephone: 6107013513
Project Name: Camp Dawson
Project #: 02896.551.008.590
Location: Kingwood WV
Sampled By: Chuck Rapone

Folder #: 100700
Company: WESTON SOLUTIONS.
Project: CAMP DAWSON
Logged By: HHK PM PM

230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

gram:
RCRA SDWA NPDES
Waste Other _____

PO # 83944

Report To: Jess Anderson
EMAIL: Jess.Anderson@westonsolutions.com
Company: Weston Solutions
Address: 1400 Weston ~~Weston~~ Way West Chester PA
Invoice To:*
EMAIL: Same
Company:
Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	Lead	TCLP Lead													Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
							Fill in Spaces with Bottles per Test																
10/7	1612	S	G		CDW-KD-03-SS01-00	X	X																381281
10/8	1130	S	G		CDW-KD-15-SS01-05		X															X	381282
10/8	1420	S	G		CDW-KD-16-SS01-00		X																381283
10/8	1600	S	G		CDW-KD-23-SS01-00		X	X															* 381284/285
10/8	0910	S	G		CDW-KD-07-SS01-00			X															381286
10/8	1050	S	G		CDW-KD-12-SS02-00			X															381287
10/8	1600	S	G		CDW-KD-23-SS02-00			X															381288
10/9	1015	S	G		CDW-KD-35-SS01-00		X																381289
10/9	0950	W	G		CDW-KD-35-SS01-02		X																381290
10/9	1210	S	G		CDW-KD-39-SS01-00		X																381291
10/9	1210	S	G		CDW-KD-39-SS01-01		X																381292
10/9	1400	W	G		CDW-KD-AA-FB01-09		X																381293

Relinquished By:	Date/Time	Received By:	Date/Time
	10/14/13 1700		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
		HHK 10/15/13 @ 1228	

Lab Use Only
Ice Present (Yes) No
Temperature 3.4
Cooler # 5244

SLS 10/15/13 @ 1050

CT Laboratories Terms and Conditions

Where a purchaser (Client) places an order for laboratory, consulting or sampling services from CT Laboratories (CTL), CTL shall provide the ordered services pursuant to these Terms and Conditions, and the related Quotation, or as agreed in a negotiated contract. In the absence of a written agreement to the contrary, the Order constitutes an acceptance by the Client of CTL's offer to do business under these Terms and Conditions, and an agreement to be bound by these Terms and Conditions. No contrary or additional terms and conditions expressed in a Client's document shall be deemed to become a part of the contract created upon acceptance of these Terms and Conditions, unless accepted by CTL in advance of the start of the project and in writing.

1. ORDERS AND RECEIPT OF SAMPLES (Sample Acceptance Policy)

1.1 The Client may place the Order (i.e., specify a Scope of Work) either by submitting a purchase order to CTL in writing, by telephone (confirmed in writing) or by negotiated contract. Whichever option the Client selects for placing the Order, the Order shall not be valid unless it contains sufficient specification to enable CTL to carry out the Client's requirements. It is the policy of CT Laboratories that samples not meeting the acceptance criteria, outlined in the NELAC standards and Section 5.8.3.2 of the DOD QSM, will not be accepted by the laboratory or will be qualified on the final report. All samples submitted to the laboratory must: (1) be accompanied by proper, full and complete documentation, including sample identification, location, date and time of collection, the collector's name, type of preservation (if any), type of sample, any special comments concerning the sample and any additional pertinent fields on the chain-of-custody. In the absence of any of the required information, the laboratory will attempt to contact the client to obtain the information; if unable to obtain the necessary information, the final report will be qualified. (2) be labeled appropriately with a unique sample identification written with indelible ink on water resistant labels. If the laboratory cannot determine the identity of a sample, it will be rejected and the client will be contacted for further instructions or resampling. (3) be in an appropriate sample container. If the container is inappropriate, the client will be contacted for further instructions or resampling. If analysis is possible, the final report will be qualified. CT Laboratories can provide a sampling guide containing approved containers and preservations for analytical methods requested. (4) adhere to specified holding times. If samples are received with less than ½ the holding time remaining for the requested test, CT Laboratories will make its best effort to analyze the samples and notify the client. If holding times are exceeded, the final report will be qualified. (5) contain adequate sample volume to perform the necessary testing. If sufficient volume is not present, the sample will be rejected and the client will be contacted for further instructions or resampling. If samples show signs of damage, contamination or inadequate preservation, the client will be notified. If analysis can be performed, the final report will be qualified. If not, the samples will be rejected and the client notified for further instructions or resampling.

1.2 CT Laboratories must be supplied with complete written disclosure of the known or suspected presence of any hazardous substances, as defined by applicable federal or state law. Where any samples which were not accompanied by the required disclosure, cause interruptions in the lab's ability to process work due to contamination of instruments or work areas, the Client will be responsible for the costs of clean up and recovery.

1.3 Prior to Sample Acceptance, the entire risk of loss or damage to samples remains with the Client. In no event will CTL have any responsibility or liability for the action or inaction of any carrier shipping or delivering any sample to or from CTL's premises. Client is responsible to assure that any sample containing any hazardous substance which is to be delivered to CTL's premises will be packaged, labeled, transported and delivered properly and in accordance with applicable laws.

2. PAYMENT TERMS

2.1 Services performed by CTL will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule. Invoices may be submitted to Client upon completion of any sample delivery group. Payment in advance is required for all Clients except those whose credit has been established with CTL. For Clients with approved credit, payment terms are net 30 days from the date of invoice by CTL. All overdue payments are subject to an additional interest and service charge of one and one-half percent (1.5%) (or the maximum rate permissible by law, whichever is lesser) per month or portion thereof from the due date until the date of payment. All fees are charged or billed directly to the Client. The billing of a third party will not be accepted without a statement, signed by the third party that acknowledges and accepts payment responsibility. CTL may suspend work and withhold delivery of data under this order at any time in the event Client fails to make timely payment of its invoices. Client shall be responsible for all costs and expenses of collection including reasonable attorney's fees. CTL reserves the right to refuse to proceed with work at any time based upon an unfavorable Client credit report.

3. CHANGE ORDERS, TERMINATION

3.1 Changes to the Scope of Work, price, or result delivery date may be initiated by CTL after Sample Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions. CTL will not proceed with such changes until an agreement with the Client is reached on the amount of any cost, schedule change or technical change to the Scope of Work, and such agreement is documented in writing.

3.2 Changes to the Scope of Work, including but not limited to increasing or decreasing the work, changing test and analysis specification or acceleration in the performance of the work may be initiated by the Client after sample acceptance. Such a change will be documented in writing and may result in a change in cost and turnaround time commitment. CTL's acceptance of such changes is contingent upon technical feasibility and operational capacity.

3.3 Suspension or termination of all or any part of the work may be initiated by the Client. CTL will be compensated consistent with Section 2 of these Terms and Conditions. CTL will complete all work in progress and be paid in full for all work completed.

4. WARRANTIES AND LIABILITY

4.1 Where applicable, CTL will use analytical methodologies which are in substantial conformity with published test methods. CTL has implemented these methods in its Laboratory Quality Manuals and referenced Standard Operating Procedures and where the nature or composition of the sample requires it, CTL reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of CTL, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or CTL's Laboratory Quality Manuals. Client may request that CTL perform according to a mutually agreed Quality Assurance Project Plan (QAPP). In the event that samples arrive prior to agreement on a QAPP, CTL will proceed with analyses under its standard Quality Manuals then in effect, and CTL will not be responsible for any resampling or other charges if work must be repeated to comply with a subsequently finalized QAPP.

4.2 CTL shall start preparation and/or analysis within holding times provided that Sample Acceptance occurs within 48 hours of sampling or 1/2 of the holding time for the test, whichever is less. Where resolution of inconsistencies leading to Sample Acceptance does not occur within this period, CTL will use its best efforts to meet holding times and will proceed with the work provided that, in CTL's judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance. Reanalysis of samples to comply with CTL's Quality Manuals will be deemed to have met holding times provided the initial analysis was performed within the applicable holding time. Where reanalysis demonstrates that sample matrix interference is the cause of failure to meet any Quality Manual requirements, the warranty will be deemed to have been met.

4.3 CTL warrants that it possesses and maintains all licenses and certifications which are required to perform services under these Terms and Conditions provided that such requirements are specified in writing to CTL prior to Sample Acceptance. CTL will notify the Client in writing of any decertification or revocation of any license, or notice of either, which affects work in progress.

4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by CTL in connection with any services performed by CTL or any Results generated from such services, and CTL gives and makes NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of CTL is authorized to give or make any other representation or warranty or modify this warranty in any way.

4.5 Client's sole and exclusive remedy for the breach of warranty in connection with any services performed by CTL, will be limited to repeating any services performed, contingent on the Client's providing, at the request of CTL and at the Client's expense, additional sample(s) if necessary. Any reanalysis requested by the Client generating Results consistent with the original Results will be at the Client's expense. If resampling is necessary, CTL's liability for resampling costs will be limited to actual cost or one hundred or one hundred fifty dollars ($150) per sample, whichever is less.

4.6 CTL's liability for any and all causes of action arising hereunder, whether based in contract, tort, warranty, negligence or otherwise, shall be limited to the lesser amount of compensation for the services performed or $100,000. All claims, including those for negligence, shall be deemed waived unless suit thereon is filed within one year after CTL's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall CTL be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages occasioned by the services performed or by application or use of the reports prepared.

4.7 In no event shall CTL have any responsibility or liability to the Client for any failure or delay in performance by CTL which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of CTL. Such causes and circumstances shall include, but not be limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavailability of supplies from usual suppliers, difficulties or delays in transportation, mail or delivery services, or any other cause beyond CTL's reasonable control.

5. RESULTS, WORK PRODUCT

5.1 Data or information provided to CTL or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by CTL of payment for the whole Order. Ownership of any analytical method, QA/QC protocols, software programs or equipment developed by CTL for performance of work will be retained by CTL, and Client shall not disclose such information to any third party.

5.2 Data and sample materials provided by Client or at Client's request, and the result obtained by CTL shall be held in confidence (unless such information is generally available to the public or is in the public domain or Client has failed to pay CTL for all services rendered or is otherwise in breach of these Terms and Conditions), subject to any disclosure required by law or legal process.

5.3 Should the Results delivered by CTL be used by the Client or Client's client, even though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client unreasonably withhold CTL's right to independently defend its data.

5.4 CTL reserves the right to subcontract services ordered by the Client to another laboratory or laboratories, if, in CTL's sole judgment, it is reasonably necessary, appropriate or advisable to do so, and with the Client's permission. CTL will in no way be liable for any subcontracted services and all applicable warranties, guarantees and insurance are those of the subcontracted laboratory.

5.5 CTL shall dispose of the Client's samples 30 days after the analytical report is issued, unless instructed to store them for an alternate period of time or to return such samples to the Client, in a manner consistent with U.S. Environmental Protection Agency regulations or other applicable Federal, state or local requirements. Any samples for projects that are canceled or not accepted, or for which return was requested, will be returned to the Client at their own expense. CTL reserves the right to return to the Client any sample or unused portion of a sample that is not within CTL's permitted capability or the capabilities of CTL's designated waste disposal vendor(s).

5.6 Unless a different time period is agreed to in any order under these Terms and Conditions, CTL agrees to retain all records for five (5) years.

5.7 In the event that CTL is required to respond to legal process related to services for Client, Client agrees to reimburse CTL for hourly charges for personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and appearances related to the legal process, travel and all reasonable expenses associated with the litigation.

6. INSURANCE

6.1 CTL shall maintain in force during the performance of services under these Terms and Conditions, Workers' Compensation and Employer's Liability Insurance in accordance with the laws of the states having jurisdiction over CTL's employees who are engaged in the performance of the work. CTL shall also maintain during such period, Comprehensive General and Contractual Liability (limit of $2,000,000 per occurrence/ aggregate), Comprehensive Automobile Liability, owned and hired, ($1,000,000 combined single limit), and Professional/Pollution Liability Insurance (limit of $5,000,000 per occurrence/aggregate). Any Client required changes to these limits or conditions may result in a change in cost to the Client.

7. AUDIT

7.1 Upon prior notice to CTL, the Client may audit and inspect CTL's records and accounts covering reimbursable costs related to work done for the Client, for a period of one (1) year after completion of the work. The purpose of any such audit shall be only for verification of such costs, and CTL shall not be required to provide access to cost records where prices are expressed as fixed fees or published unit prices

Rev. 2/2013

CHAIN OF CUSTODY

Company: Weston
Project Contact: Jess Anderson
Telephone: 610701 3573
Project Name: Dawson
Project #: 03886.551.008.5400
Location: Kingwood WV
Sampled By: Chuck Rapone

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Lab Use Only
Place Header Sticker Here:

100700

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO # 83944

Report To: Jess Anderson
EMAIL: Jess.Anderson@westonsolutions.com
Company: Weston Solutions
Address: 1400 Weston Way West Chester PA 19803

Invoice To:*
EMAIL: Same
Company:
Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

ANALYSES REQUESTED

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	Lead														Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
							Fill in Spaces with Bottles per Test																
10/10	1130	S	G		CDW-KD-49-5501-00		X																381294

Relinquished By:	Date/Time	Received By:	Date/Time
	10/14/13 1700		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
		HHK	10/15/13 @ 1228

Lab Use Only
Ice Present Yes No
Temperature 3.4
Cooler # 5244

SLS 10/15/13 @ 1050

CT Laboratories Terms and Conditions

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1. ORDERS AND RECEIPT OF SAMPLES (Sample Acceptance Policy)

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1.3 Prior to Sample Acceptance, the entire risk of loss or damage to samples remains with the Client. In no event will CTL have any responsibility or liability for the action or inaction of any carrier shipping or delivering any sample to or from CTL's premises. Client is responsible to assure that any sample containing any hazardous substance which is to be delivered to CTL's premises will be packaged, labeled, transported and delivered properly and in accordance with applicable laws.

2. PAYMENT TERMS

2.1 Services performed by CTL will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule. Invoices may be submitted to Client upon completion of any sample delivery group. Payment in advance is required for all Clients except those whose credit has been established with CTL. For Clients with approved credit, payment terms are net 30 days from the date of invoice by CTL. All overdue payments are subject to an additional interest and service charge of one and one-half percent (1.5%) (or the maximum rate permissible by law, whichever is lesser) per month or portion thereof from the due date until the date of payment. All fees are charged or billed directly to the Client. The billing of a third party will not be accepted without a statement, signed by the third party that acknowledges and accepts payment responsibility. CTL may suspend work and withhold delivery of data under this order at any time in the event Client fails to make timely payment of its invoices. Client shall be responsible for all costs and expenses of collection including reasonable attorney's fees. CTL reserves the right to refuse to proceed with work at any time based upon an unfavorable Client credit report.

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3.3 Suspension or termination of all or any part of the work may be initiated by the Client. CTL will be compensated consistent with Section 2 of these Terms and Conditions. CTL will complete all work in progress and be paid in full for all work completed.

4. WARRANTIES AND LIABILITY

4.1 Where applicable, CTL will use analytical methodologies which are in substantial conformity with published test methods. CTL has implemented these methods in its Laboratory Quality Manuals and referenced Standard Operating Procedures and where the nature or composition of the sample requires it, CTL reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of CTL, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or CTL's Laboratory Quality Manuals. Client may request that CTL perform according to a mutually agreed Quality Assurance Project Plan (QAPP). In the event that samples arrive prior to agreement on a QAPP, CTL will proceed with analyses under its standard Quality Manuals then in effect, and CTL will not be responsible for any resampling or other charges if work must be repeated to comply with a subsequently finalized QAPP.

4.2 CTL shall start preparation and/or analysis within holding times provided that Sample Acceptance occurs within 48 hours of sampling or 1/2 of the holding time for the test, whichever is less. Where resolution of inconsistencies leading to Sample Acceptance does not occur within this period, CTL will use its best efforts to meet holding times and will proceed with the work provided that, in CTL's judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance. Reanalysis of samples to comply with CTL's Quality Manuals will be deemed to have met holding times provided the initial analysis was performed within the applicable holding time. Where reanalysis demonstrates that sample matrix interference is the cause of failure to meet any Quality Manual requirements, the warranty will be deemed to have been met.

4.3 CTL warrants that it possesses and maintains all licenses and certifications which are required to perform services under these Terms and Conditions provided that such requirements are specified in writing to CTL prior to Sample Acceptance. CTL will notify the Client in writing of any decertification or revocation of any license, or notice of either, which affects work in progress.

4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by CTL in connection with any services performed by CTL or any Results generated from such services, and CTL gives and makes NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of CTL is authorized to give or make any other representation or warranty or modify this warranty in any way.

4.5 Client's sole and exclusive remedy for the breach of warranty in connection with any services performed by CTL, will be limited to repeating any services performed, contingent on the Client's providing, at the request of CTL and at the Client's expense, additional sample(s) if necessary. Any reanalysis requested by the Client generating Results consistent with the original Results will be at the Client's expense. If resampling is necessary, CTL's liability for resampling costs will be limited to actual cost or one hundred or one hundred fifty dollars ($150) per sample, whichever is less.

4.6 CTL's liability for any and all causes of action arising hereunder, whether based in contract, tort, warranty, negligence or otherwise, shall be limited to the lesser amount of compensation for the services performed or $100,000. All claims, including those for negligence, shall be deemed waived unless suit thereon is filed within one year after CTL's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall CTL be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages occasioned by the services performed or by application or use of the reports prepared.

4.7 In no event shall CTL have any responsibility or liability to the Client for any failure or delay in performance by CTL which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of CTL. Such causes and circumstances shall include, but not be limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavailability of supplies from usual suppliers, difficulties or delays in transportation, mail or delivery services, or any other cause beyond CTL's reasonable control.

5. RESULTS, WORK PRODUCT

5.1 Data or information provided to CTL or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by CTL of payment for the whole Order. Ownership of any analytical method, QA/QC protocols, software programs or equipment developed by CTL for performance of work will be retained by CTL, and Client shall not disclose such information to any third party.

5.2 Data and sample materials provided by Client or at Client's request, and the result obtained by CTL shall be held in confidence (unless such information is generally available to the public or is in the public domain or Client has failed to pay CTL for all services rendered or is otherwise in breach of these Terms and Conditions), subject to any disclosure required by law or legal process.

5.3 Should the Results delivered by CTL be used by the Client or Client's client, even though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client unreasonably withhold CTL's right to independently defend its data.

5.4 CTL reserves the right to subcontract services ordered by the Client to another laboratory or laboratories, if, in CTL's sole judgment, it is reasonably necessary, appropriate or advisable to do so, and with the Client's permission. CTL will in no way be liable for any subcontracted services and all applicable warranties, guarantees and insurance are those of the subcontracted laboratory.

5.5 CTL shall dispose of the Client's samples 30 days after the analytical report is issued, unless instructed to store them for an alternate period of time or to return such samples to the Client, in a manner consistent with U.S. Environmental Protection Agency regulations or other applicable Federal, state or local requirements. Any samples for projects that are canceled or not accepted, or for which return was requested, will be returned to the Client at their own expense. CTL reserves the right to return to the Client any sample or unused portion of a sample that is not within CTL's permitted capability or the capabilities of CTL's designated waste disposal vendor(s).

5.6 Unless a different time period is agreed to in any order under these Terms and Conditions, CTL agrees to retain all records for five (5) years.

5.7 In the event that CTL is required to respond to legal process related to services for Client, Client agrees to reimburse CTL for hourly charges for personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and appearances related to the legal process, travel and all reasonable expenses associated with the litigation.

6. INSURANCE

6.1 CTL shall maintain in force during the performance of services under these Terms and Conditions, Workers' Compensation and Employer's Liability Insurance in accordance with the laws of the states having jurisdiction over CTL's employees who are engaged in the performance of the work. CTL shall also maintain during such period, Comprehensive General and Contractual Liability (limit of $2,000,000 per occurrence/ aggregate), Comprehensive Automobile Liability, owned and hired, ($1,000,000 combined single limit), and Professional/Pollution Liability Insurance (limit of $5,000,000 per occurrence/aggregate). Any Client required changes to these limits or conditions may result in a change in cost to the Client.

7. AUDIT

7.1 Upon prior notice to CTL, the Client may audit and inspect CTL's records and accounts covering reimbursable costs related to work done for the Client, for a period of one (1) year after completion of the work. The purpose of any such audit shall be only for verification of such costs, and CTL shall not be required to provide access to cost records where prices are expressed as fixed fees or published unit prices

Folder #: 100700

PM LOGIN CONFIRMATION

Contract #: 2647

Company: WESTON SOLUTIONS, INC. **Project:** CAMP DAWSON **Proj #:** 03886.551.008.5900

Project Phase: **PO Number:** 83944 **Invoice #:** 101000

Project Manager: *PML* **Date Received:** 10/15/13 **Log Date:** 10/15/2013 **Projected Sample Disposal Date:** 4 days from receipt date

Report To: JESS ANDERSON
1400 WESTON WAY

WEST CHESTER, PA 19380
Phone: :
Rep. E-Mail

CC:
JESS.ANDERSON@WESTONSOLUTIONS.COM
Fax:

Invoice To :ATTN: MYRIAM MISSAS CC:
1400 WESTON WAY, BLDG 5-1

WEST CHESTER, PA 19380
Phone: Fax:
EMail: myriam.missas@westonsolutions.com

Collected By:
Collector's Phone: 610-701-3513

Arrival Temperature: 3.4 oC

SAMPLE #: 381281 DESCR: CDW-KD-03-SS01-00 MATRIX: SOIL SAMPLED: 10/7/2013 Time: 1612 CLIENT SAMPLE #:

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				10/21/2013	10/27/2013		Logged
817	ICP QSM				4/5/2014	10/27/2013		NeedPrep
		Lead						

SAMPLE #: 381282 DESCR: CDW-KD-13-SS01-05 MATRIX: SOIL SAMPLED: 10/8/2013 Time: 1130 CLIENT SAMPLE #:

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT			***DESIGNATED MATRIX SPIKE***	10/22/2013	10/27/2013		Logged
817	ICP QSM			***DESIGNATED MATRIX SPIKE***	4/6/2014	10/27/2013		NeedPrep
		Lead						

SAMPLE #: 381283 DESCR: CDW-KD-16-SS01-00 MATRIX: SOIL SAMPLED: 10/8/2013 Time: 1420 CLIENT SAMPLE #:

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				10/22/2013	10/27/2013		Logged
817	ICP QSM				4/6/2014	10/27/2013		NeedPrep

Folder #: 100700 **Company:** *WESTON SOLUTIONS, INC.* **Project:** CAMP DAWSON

SAMPLE #: 381283 **DESCR:** CDW-KD-16-SS01-00 **MATRIX:** SOIL **SAMPLED:** 10/8/2013 **Time:** 1420 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
		Lead						

SAMPLE #: 381284 **DESCR:** CDW-KD-23-SS01-00 **MATRIX:** SOIL **SAMPLED:** 10/8/2013 **Time:** 1600 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				10/22/2013	10/27/2013		Logged
817	ICP QSM				4/6/2014	10/27/2013		NeedPrep
		Lead						

SAMPLE #: 381285 **DESCR:** CDW-KD-23-SS01-00 **MATRIX:** TCLP **SAMPLED:** 10/8/2013 **Time:** 1600 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1045	ICP QSM TCLP				4/6/2014	10/27/2013		NeedExt
		Lead						

SAMPLE #: 381286 **DESCR:** CDW-KD-07-SS01-00 **MATRIX:** TCLP **SAMPLED:** 10/8/2013 **Time:** 0910 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1045	ICP QSM TCLP				4/6/2014	10/27/2013		NeedExt
		Lead						

SAMPLE #: 381287 **DESCR:** CDW-KD-12-SS02-00 **MATRIX:** TCLP **SAMPLED:** 10/8/2013 **Time:** 1050 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1045	ICP QSM TCLP				4/6/2014	10/27/2013		NeedExt
		Lead						

SAMPLE #: 381288 **DESCR:** CDW-KD-23-SS02-00 **MATRIX:** TCLP **SAMPLED:** 10/8/2013 **Time:** 1600 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1045	ICP QSM TCLP				4/6/2014	10/27/2013		NeedExt
		Lead						

Folder #: 100700 **Company:** *WESTON SOLUTIONS, INC.* **Project:** CAMP DAWSON

SAMPLE #: 381289 **DESCR:** CDW-KD-35-SS01-00 **MATRIX:** SOIL **SAMPLED:** 10/9/2013 **Time:** 1015 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				10/23/2013	10/27/2013		Logged
817	ICP QSM				4/7/2014	10/27/2013		NeedPrep
		Lead						

SAMPLE #: 381290 **DESCR:** CDW-KD-35-SS01-02 **MATRIX:** WATER **SAMPLED:** 10/9/2013 **Time:** 0950 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
848	ICP TOTAL QSM				4/7/2014	10/27/2013		NeedPrep
		Total Lead						

SAMPLE #: 381291 **DESCR:** CDW-KD-39-SS01-00 **MATRIX:** SOIL **SAMPLED:** 10/9/2013 **Time:** 1210 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				10/23/2013	10/27/2013		Logged
817	ICP QSM				4/7/2014	10/27/2013		NeedPrep
		Lead						

SAMPLE #: 381292 **DESCR:** CDW-KD-39-SS01-01 **MATRIX:** SOIL **SAMPLED:** 10/9/2013 **Time:** 1210 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				10/23/2013	10/27/2013		Logged
817	ICP QSM				4/7/2014	10/27/2013		NeedPrep
		Lead						

SAMPLE #: 381293 **DESCR:** CDW-KD-AA-FB01-04 **MATRIX:** WATER **SAMPLED:** 10/9/2013 **Time:** 1400 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
848	ICP TOTAL QSM				4/7/2014	10/27/2013		NeedPrep
		Total Lead						

Folder #: 100700 **Company:** *WESTON SOLUTIONS, INC.* **Project:** CAMP DAWSON

SAMPLE #: 381294 **DESCR:** CDW-KD-49-SS01-00 **MATRIX:** SOIL **SAMPLED:** 10/10/2013 **Time:** 1130 **CLIENT SAMPLE #:**

TEST#	TEST	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT				10/24/2013	10/27/2013		Logged
817	ICP QSM				4/8/2014	10/27/2013		NeedPrep
		Lead						

Invoice Number: 101000 **Preliminary Invoice Estimate:** $ 356.00

Item	Matrix	Quantity	Price	Expedited TAT Surcharge	Total
ICP QSM Lead	SOIL	10	$ 12.00	0.00	$ 120.00
ICP QSM TCLP Lead	TCLP	4	$ 53.00	0.00	$ 212.00
ICP TOTAL QSM Total Lead	GROUND WATER	2	$ 12.00	0.00	$ 24.00
SOLIDS,PERCENT	SOIL	8	$ 0.00	0.00	$ 0.00
Temporary Fuel Surcharge on lab supplies and services (if applicable):					$ 0.00

Bottle Information

Container	# Containers	Tests
HNO3	**2**	ICP
SOLIDS	**12**	%SOL,ICP

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Sample Condition Report

Folder #: 100700
Client: WESTON SOLUTIONS, INC.

Print Date / Time: 10/15/2013 12:31
Received Date / Time / By: 10/15/2013 1050 JLS

Project Name: CAMP DAWSON
Project Phase:

Log-In Date / Time / By: 10/15/2013 1228 HHK
Project #: 03886.551.008.5900 PM: PML

Coolers: 5244
Custody Seals Present : **Y**

Temperature: 3.4 C On Ice: **Y**
COC Present:? **Y** Complete? **Y**

Seal Intact? **Y**
Ship Method: FEDEX EXPRESS
Adequate Packaging: **Y**

Numbers: SIGNED AND DATED
Tracking Number: 796907415811
Temp Blank Enclosed? **Y**

Notes: SAMPLES RECEIVED IN GOOD CONDITION ON ICE.

ONE INTACT CUSTODY SEAL PRESENT; SIGNED AND DATED 10/14/13.

Sample ID /	Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
381281	CDW-KD-03-SS01-00				
		SOLIDS	1	/	%SOL,ICP
		Total # of Containers of Type	(***SOLIDS***) =	**1**	

Sample ID /	Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
381282	CDW-KD-13-SS01-05				
		SOLIDS	1	/	%SOL,ICP
		Total # of Containers of Type	(***SOLIDS***) =	**1**	

Sample ID /	Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
381283	CDW-KD-16-SS01-00				
		SOLIDS	1	/	%SOL,ICP
		Total # of Containers of Type	(***SOLIDS***) =	**1**	

Sample ID /	Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
381284	CDW-KD-23-SS01-00				
		SOLIDS	1	/	%SOL,ICP
		Total # of Containers of Type	(***SOLIDS***) =	**1**	

Sample ID /	Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
381285	CDW-KD-23-SS01-00				

SOLIDS	1		/	ICP

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

381286 CDW-KD-07-SS01-00

SOLIDS	1		/	ICP

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

381287 CDW-KD-12-SS02-00

SOLIDS	1		/	ICP

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

381288 CDW-KD-23-SS02-00

SOLIDS	1		/	ICP

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

381289 CDW-KD-35-SS01-00

SOLIDS	1		/	%SOL,ICP

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

381290 CDW-KD-35-SS01-02

HNO3	1	Y	/	ICP

Total # of Containers of Type (*HNO3*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

381291 CDW-KD-39-SS01-00

SOLIDS	1		/	%SOL,ICP

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

381292 CDW-KD-39-SS01-00

SOLIDS	1		/	%SOL,ICP

Total # of Containers of Type (*SOLIDS*) = 1

100700

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
381293 CDW-KD-AA-FB01-04				
	HNO3	1	Y /	ICP
	Total # of Containers of Type	(***HNO3***) =	**1**	

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
381294 CDW-KD-49-SS01-00				
	SOLIDS	1	/	%SOL,ICP
	Total # of Containers of Type	(***SOLIDS***) =	**1**	

Condition Code	*Condition Description*
1	Sample Received OK

100700

From: (610) 701-3513
Jess Anderson

1400 Weston Way

West Chester, PA 19380

Origin ID: BIGA

FedEx. Express

J13201306280326

Ship Date: 14OCT13
ActWgt: 42.0 LB
CAD: 105588401/INET3430

Delivery Address Bar Code

Ref # 03886.551.008.5900
Invoice #
PO #
Dept #

SHIP TO: (608) 356-2760

BILL SENDER

Pat Letterer
CT Laboratories
1230 LANGE CT

BARABOO, WI 53913

TRK# 0201 **7969 0741 5811**

TUE - 15 OCT 10:30A
PRIORITY OVERNIGHT

NA MSNA

53913
WI-US
MSN

Official Sample Custody Seal

DATE: 10/14/13

SIGNATURE

DO NOT BREAK OR OPEN
contact:
CT Laboratories LLC
1230 Lange Court - Baraboo, WI 53913
608-356-2760

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, consult current FedEx Service Guide.

Cooler 5244
10/15/13 1050
M. W.

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1230 Lange Court • Baraboo, WI 53913 • 608-356-2760
www.ctlaboratories.com

ANALYTICAL REPORT

WESTON SOLUTIONS, INC.
GRETCHEN FODOR
1400 WESTON WAY
WEST CHESTER, PA 19380

Project Name: CAMP DAWSON
Project Phase:
Contract #: 2647
Project #:
Folder #: 101914
Purchase Order #:

Arrival Temperature: See COC
Report Date: 12/23/2013
Date Received: 12/20/2013
Reprint Date: 12/26/2013

CT LAB#: 413305 Sample Description: CDW-KD-13-SS01-05 Client Sample #: Sampled: 10/08/2013 1130

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***68.8***	%	0.1	0.1	0.1	0.1	1.00			12/20/13 11:37	PML	EPA 8000C
Metals Results												
Lead	***265***	mg/kg	0.057	0.18	0.36	0.36	1.00		12/20/2013 12:00	12/20/13 15:58	NAH	EPA 6010C ^

Solid sample results reported on a Dry Weight Basis

Notes:

^ Indicates the laboratory is NELAP accredited for this analyte by the indicated matrix and method. DL (detection limit), LOD (limit of detection), loq (limit of quantitation) as defined by most recent DOD QSM version.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for the parameters where accreditation is required or available, unless noted in the case narrative.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

Current CT Laboratories Certifications

Illinois NELAP ID# 002413
Kansas NELAP ID# E-10368
Kentucky ID# 0023
Pennsylvania NELAP ID# 68-04201
New Jersey NELAP ID# WI001
North Carolina ID# 674
Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
DoD-ELAP A2LA Cert # 3317.013
Alaska ID # UST-099
Louisiana ID # 115843
Virginia ID# 460203
ISO/IEC 17025-2005 A2LA Cert # 3317.01
GA EPD Stipulation ID 115843, Expires Annually

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QC SUMMARY REPORT

WESTON SOLUTIONS, INC. **Project Name: CAMP DAWSON**

SDG #: 101914 **Folder #: 101914** **Project Number:**

Continuing Calibration Blank

Analytical Run #:	101760	Analysis Date:	12/20/2013	Prep Batch #:		Matrix:	LIQUID
CTLab #:	413981	Analysis Time:	16:10	Prep Date/Time:		Method:	SW6010
Parent Sample #:		Analyst:	DC	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Lead	5.0	ug/L					5.0		

WESTON SOLUTIONS, INC. **Project Name: CAMP DAWSON**

SDG #: 101914 **Folder #: 101914** **Project Number:**

Continuing Calibration Blank

Analytical Run #:	101760	Analysis Date:	12/20/2013	Prep Batch #:		Matrix:	LIQUID
CTLab #:	413986	Analysis Time:	16:53	Prep Date/Time:		Method:	SW6010
Parent Sample #:		Analyst:	DC	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Lead	5.0	ug/L					5.0		

WESTON SOLUTIONS, INC. **Project Name: CAMP DAWSON**

SDG #: 101914 **Folder #: 101914** **Project Number:**

Initial Calibration Blank

Analytical Run #:	101760	Analysis Date:	12/20/2013	Prep Batch #:		Matrix:	LIQUID
CTLab #:	413975	Analysis Time:	15:15	Prep Date/Time:		Method:	SW6010
Parent Sample #:		Analyst:	DC	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Lead	5.0	ug/L			0		5.0		

WESTON SOLUTIONS, INC. **Project Name: CAMP DAWSON**

SDG #: 101914 **Folder #: 101914** **Project Number:**

Serial Dilution

Analytical Run #:	101760	Analysis Date:	12/20/2013	Prep Batch #:		Matrix:	SOIL
CTLab #:	413978	Analysis Time:	16:01	Prep Date/Time:		Method:	SW6010
Parent Sample #:	413305	Analyst:	DC	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Lead	8400	ug/L					--- 10.0	14	10

WESTON SOLUTIONS, INC. **Project Name: CAMP DAWSON**

SDG #: 101914 **Folder #: 101914** **Project Number:**

Lab Control Spike Soil

Analytical Run #:	101760	Analysis Date:	12/20/2013	Prep Batch #:	47411	Matrix:	SOLID
CTLab #:	413321	Analysis Time:	15:51	Prep Date/Time:	12/20/2013 12:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Lead	192	mg/kg			200	96	80 --- 120		

WESTON SOLUTIONS, INC. **Project Name: CAMP DAWSON**

SDG #: 101914 **Folder #: 101914** **Project Number:**

Method Blank Soil

Analytical Run #:	101760	Analysis Date:	12/20/2013	Prep Batch #:	47411	Matrix:	SOLID
CTLab #:	413320	Analysis Time:	15:55	Prep Date/Time:	12/20/2013 12:00	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Lead	0.12	mg/kg			0		0.125		

WESTON SOLUTIONS, INC. **Project Name: CAMP DAWSON**

SDG #: 101914 **Folder #: 101914** **Project Number:**

Matrix Spike Duplicate Soil

Analytical Run #:	101760	Analysis Date:	12/20/2013	Prep Batch #:	47411	Matrix:	SOIL
CTLab #:	413323	Analysis Time:	16:17	Prep Date/Time:	12/20/2013 12:00	Method:	SW6010
Parent Sample #:	413322	Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Lead	523	mg/kg	265		291	89	80 --- 120	1	20

WESTON SOLUTIONS, INC. **Project Name: CAMP DAWSON**

SDG #: 101914 **Folder #: 101914** **Project Number:**

Post Digestion Spike Soil

Analytical Run #:	101760	Analysis Date:	12/20/2013	Prep Batch #:		Matrix:	SOIL
CTLab #:	414107	Analysis Time:	16:20	Prep Date/Time:		Method:	SW6010
Parent Sample #:	413305	Analyst:	NAH	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Lead	14200	ug/L				85	75 --- 125		

WESTON SOLUTIONS, INC. **Project Name: CAMP DAWSON**

SDG #: 101914 **Folder #: 101914** **Project Number:**

Matrix Spike Soil

Analytical Run #:	101760	Analysis Date:	12/20/2013	Prep Batch #:	47411	Matrix:	SOIL
CTLab #:	413322	Analysis Time:	16:14	Prep Date/Time:	12/20/2013 12:00	Method:	SW6010
Parent Sample #:	413305	Analyst:	NAH	Prep Analyst:	LJF		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Lead	521	mg/kg	265		294	87	80 --- 120		

Sample Name: icv Acquired: 12/20/2013 15:05:46 Type: QC
Method: DOD Calibration 1(v1591) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2247	Fe2343	Mg2790
Avg	**48.0**	**12300.**	**2130.**	**2140.**	**49.6**	**10300.**	**50.5**	**503.**	**208.**	**251.**	**4910.**	**9290.**
Stddev	.8	124.	42.	35.	.7	200.	1.3	12.	2.	6.	63.	90.
%RSD	1.70	1.01	1.95	1.63	1.36	1.95	2.58	2.47	1.04	2.44	1.29	.972
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se2062	Tl1908	V_2908	Zn2138
Avg	**504.**	**503.**	**508.**	**505.**	**511.**	**2190.**	**2010.**	**533.**	**517.**
Stddev	7.	14.	12.	13.	13.	22.	61.	17.	12.
%RSD	1.40	2.76	2.38	2.62	2.59	1.01	3.02	3.13	2.40
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**31444.**
Stddev	277.
%RSD	.87965

Sample Name: icb Acquired: 12/20/2013 15:15:34 Type: QC
Method: DOD Calibration 1(v1591) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	.708	.557	2.52	-2.02	-.103	-8.15	-.492	-.286	-.960	.378	2.81	1.56
Stddev	.409	.364	1.23	.01	.079	.24	.035	.047	.436	.050	11.4	.55
%RSD	57.8	65.3	48.6	.632	77.1	2.93	7.09	16.4	45.4	13.3	405.	35.2
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	-.482	-.623	-.258	-1.34	.333	2.42	.597	2.24	-.896
Stddev	3.42	.215	.331	.17	1.16	1.67	.442	2.85	.157
%RSD	708.	34.5	128.	12.6	350.	68.9	74.0	127.	17.5
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	31706.
Stddev	54.
%RSD	.17018

Sample Name: lcss47411 Acquired: 12/20/2013 15:51:57 Type: Unk
Method: DOD Calibration 1(v1591) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3179	Ca3933	Ca3968	Cd2265	Co2286	Cr2677	Cu2247
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.60**	**4.55**	**5.20**	**3.85**	**.055**	**338.**	**303.**	**296.**	**-.526**	**-.274**	**2.00**	**22.9**
Stddev	.75	1.07	1.37	1.34	.079	51.	61.	63.	.033	.066	.15	.8
%RSD	46.7	23.6	26.3	34.8	144.	15.0	20.2	21.4	6.32	24.0	7.38	3.63

Elem	Fe2599	Mg2802	Mn2576	Mo2020	Ni2316	Pb2169	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**71.8**	**119.**	**1.37**	**-.041**	**.426**	**7690.**	**-5.67**	**21.9**	**2.70**	**4.54**	**1.76**
Stddev	5.0	24.	.06	.295	.258	181.	3.01	2.9	4.24	5.16	.11
%RSD	7.02	19.8	4.35	727.	60.6	2.35	53.1	13.4	157.	114.	6.34

Int. Std.	Y_3600
Units	Cts/S
Avg	**30571.**
Stddev	142.
%RSD	.46513

Sample Name: mbs47411 Acquired: 12/20/2013 15:55:16 Type: Unk
Method: DOD Calibration 1(v1591) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.943	-.471	-1.45	-2.16	-.107	-3.52	-.495	-.112	-.736	.603	-7.53	2.28
Stddev	.503	.538	3.14	1.05	.209	.44	.104	.223	.463	.180	12.6	.20
%RSD	53.3	114.	216.	48.7	196.	12.5	21.1	199.	62.9	29.8	167.	8.90

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.880	-.459	-.266	4.90	4.25	3.00	-1.84	3.30	-.610
Stddev	1.59	.089	.234	2.99	1.95	1.66	.86	.45	.114
%RSD	181.	19.5	88.0	61.0	45.9	55.5	46.5	13.5	18.7

Int. Std.	Y_3600
Units	Cts/S
Avg	30920.
Stddev	153.
%RSD	.49478

Sample Name: 413305 Acquired: 12/20/2013 15:58:40 Type: Unk
Method: DOD Calibration 1(v1591) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1937	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Co2388	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	-.855	255000.	355.	283.	2660.	23.7	125000.	8.11	403.	586.	416.
Stddev	1.41	7900.	16.	6.	88.	.6	4270.	.50	12.	26.	7.
%RSD	165.	3.10	4.42	2.05	3.32	2.66	3.41	6.12	2.92	4.38	1.79

Elem	Cu3247	Fe2343	Mg2025	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Sb2175	Se1960
Units	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	1540.	740000.	37900.	25100.	36.7	109.	475.	446.	7390.	67.6	27.3
Stddev	44.	25300.	1130.	878.	1.6	5.	10.	13.	140.	2.2	3.9
%RSD	2.84	3.42	2.99	3.50	4.45	4.25	2.18	3.00	1.89	3.28	14.3

Elem	Tl1908	V_2908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L
Avg	4.94	733.	516.	1760.
Stddev	3.14	27.	11.	39.
%RSD	63.6	3.71	2.21	2.23

Int. Std.	Y_3600
Units	Cts/S
Avg	30408.
Stddev	296.
%RSD	.97407

Sample Name: I413305 Acquired: 12/20/2013 16:01:51 Type: Unk serial dilution
Method: DOD Calibration 1(v1591) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	Al3961	As1937	Ba4554	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.450	60800.	59500.	80.0	623.	610.	5.66	30200.	.472	91.3	96.0
Stddev	.788	1050.	1250.	7.0	9.	10.	.20	404.	.425	.4	2.3
%RSD	175.	1.73	2.09	8.78	1.39	1.71	3.53	1.33	90.2	.449	2.36

Elem	Cu2247	Fe2343	Mg2025	Mn2593	Mo2020	Ni2316	Pb2169	Sb2175	Se1960	Tl1908	V_2924
Units	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	302.	176000.	9500.	6010.	6.86	103.	1680.	18.7	9.55	.179	123.
Stddev	3.	2570.	59.	79.	.57	1.	12.	3.8	3.91	.904	5.
%RSD	1.09	1.45	.617	1.31	8.32	.797	.696	20.3	40.9	505.	3.93

Elem	Zn2138
Units	ug/L
Avg	426.
Stddev	3.
%RSD	.766

Int. Std.	Y_3600
Units	Cts/S
Avg	29813.
Stddev	330.
%RSD	1.1080

Sample Name: ccv1 Acquired: 12/20/2013 16:05:06 Type: QC
Method: DOD Calibration 1(v1591) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

high-concentration line ccv

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2343	Mg2025
Avg	**459.**	**4830.**	**4830.**	**4690.**	**478.**	**4790.**	**477.**	**4800.**	**4680.**	**4750.**	**4690.**	**5020.**
Stddev	7.	126.	85.	50.	6.	71.	4.	68.	66.	57.	78.	49.
%RSD	1.47	2.60	1.77	1.06	1.27	1.47	.738	1.42	1.40	1.19	1.66	.967
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl2767	V_2908	Zn2062
Avg	**4800.**	**5240.**	**4910.**	**4880.**	**4860.**	**4930.**	**5350.**	**4770.**	**4770.**
Stddev	70.	58.	80.	90.	84.	71.	543.	80.	66.
%RSD	1.45	1.10	1.64	1.85	1.74	1.44	10.2	1.67	1.39
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**29917.**
Stddev	253.
%RSD	.84723

Sample Name: ccv2 Acquired: 12/20/2013 16:07:48 Type: QC

Method: DOD Calibration 1(v1591) Mode: CONC Corr. Factor: 1.000000

User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1

Comment:

low-concentration line ccv

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**49.6**	**522.**	**512.**	**502.**	**48.0**	**477.**	**50.8**	**507.**	**520.**	**508.**	**507.**	**514.**
Stddev	.7	11.	15.	4.	.5	6.	1.2	13.	9.	13.	5.	7.
%RSD	1.31	2.09	2.93	.858	1.00	1.25	2.29	2.60	1.76	2.51	.978	1.33
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**494.**	**515.**	**509.**	**510.**	**509.**	**530.**	**509.**	**532.**	**511.**
Stddev	7.	14.	14.	14.	16.	18.	13.	10.	14.
%RSD	1.48	2.73	2.85	2.75	3.10	3.42	2.62	1.89	2.73
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**29795.**
Stddev	226.
%RSD	.75771

Sample Name: ccb Acquired: 12/20/2013 16:10:50 Type: QC
Method: DOD Calibration 1(v1591) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	.257	1.09	1.57	-1.55	.065	-7.63	-.429	-.004	-.272	.744	-10.8	1.57
Stddev	.697	.32	3.37	.29	.181	.10	.215	.427	.340	.114	16.4	.47
%RSD	271.	29.7	215.	18.7	279.	1.34	50.1	11400.	125.	15.4	152.	29.8
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	.033	2.00	.274	.201	2.18	3.05	.879	3.46	-.866
Stddev	2.76	.10	.630	1.81	4.30	2.90	1.41	2.73	.130
%RSD	8360.	5.17	230.	902.	197.	95.1	160.	79.0	15.0
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	29451.
Stddev	136.
%RSD	.46104

Sample Name: mss413305 Acquired: 12/20/2013 16:14:14 Type: Unk
Method: DOD Calibration 1(v1591) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1937	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Co2388	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.512**	**245000.**	**344.**	**250.**	**2610.**	**23.3**	**136000.**	**9.42**	**304.**	**479.**	**410.**
Stddev	.565	20200.	23.	18.	247.	1.6	11400.	2.09	16.	40.	19.
%RSD	110.	8.24	6.82	7.14	9.45	6.96	8.39	22.2	5.11	8.45	4.61

Elem	Cu3247	Fe2343	Mg2025	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Sb2175	Se1960
Units	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1580.**	**713000.**	**38800.**	**19700.**	**38.7**	**107.**	**464.**	**463.**	**14200.**	**62.8**	**29.7**
Stddev	130.	60800.	1970.	1600.	1.7	8.	9.	24.	258.	5.3	3.8
%RSD	8.27	8.53	5.07	8.11	4.33	7.33	2.00	5.18	1.82	8.36	12.8

Elem	Tl1908	V_2908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L
Avg	**.180**	**685.**	**553.**	**1750.**
Stddev	6.80	54.	26.	36.
%RSD	3780.	7.95	4.61	2.07

Int. Std.	Y_3600
Units	Cts/S
Avg	**28709.**
Stddev	1028.
%RSD	3.5788

Sample Name: msds413305 Acquired: 12/20/2013 16:17:25 Type: Unk
Method: DOD Calibration 1(v1591) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1937	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Co2388	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.08**	**253000.**	**349.**	**270.**	**2550.**	**23.4**	**134000.**	**10.0**	**344.**	**502.**	**423.**
Stddev	.67	5550.	10.	10.	74.	.7	3430.	1.2	5.	27.	4.
%RSD	62.4	2.19	2.83	3.61	2.89	2.83	2.55	12.0	1.40	5.28	1.05

Elem	Cu3247	Fe2343	Mg2025	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Sb2175	Se1960
Units	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1540.**	**728000.**	**39800.**	**21100.**	**38.3**	**108.**	**476.**	**471.**	**14400.**	**67.6**	**28.4**
Stddev	43.	18600.	566.	551.	1.0	5.	10.	7.	265.	1.4	4.1
%RSD	2.79	2.56	1.42	2.61	2.49	4.18	2.02	1.42	1.83	2.10	14.4

Elem	Tl1908	V_2908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L
Avg	**-1.02**	**701.**	**548.**	**1770.**
Stddev	6.61	23.	7.	38.
%RSD	646.	3.25	1.26	2.15

Int. Std.	Y_3600
Units	Cts/S
Avg	**28580.**
Stddev	135.
%RSD	.47193

Sample Name: pdss413305 Acquired: 12/20/2013 16:20:35 Type: Unk
Method: DOD Calibration 1(v1591) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3961	As1937	As1890	Ba4934	Be3130	Ca3179	Cd2265	Co2286	Co2388	Cr2677
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	.043	257000.	366.	285.	2680.	24.0	130000.	11.8	425.	615.	437.
Stddev	.430	6450.	20.	14.	83.	.2	3740.	.8	12.	11.	7.
%RSD	1010.	2.52	5.40	4.86	3.08	.874	2.87	6.92	2.91	1.81	1.70

Elem	Cu3247	Fe2343	Mg2025	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Sb2175	Se1960
Units	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	1560.	758000.	40800.	25600.	38.9	115.	469.	470.	14200.	65.7	20.3
Stddev	37.	22900.	1010.	689.	1.0	7.	9.	12.	310.	6.1	2.8
%RSD	2.36	3.03	2.48	2.69	2.58	5.72	1.90	2.46	2.19	9.32	13.9

Elem	Tl1908	V_2908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L
Avg	2.61	767.	547.	1720.
Stddev	2.36	40.	17.	42.
%RSD	90.5	5.24	3.08	2.45

Int. Std.	Y_3600
Units	Cts/S
Avg	28407.
Stddev	271.
%RSD	.95323

Sample Name: ccv1 Acquired: 12/20/2013 16:47:50 Type: QC
Method: DOD Calibration 1(v1591) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3092	As1890	Ba4934	Be2348	Ca3179	Cd2288	Co2388	Cr2835	Cu3247	Fe2343	Mg2025
Avg	**503.**	**5230.**	**4890.**	**4970.**	**530.**	**5270.**	**515.**	**5360.**	**5200.**	**5160.**	**4990.**	**5450.**
Stddev	7.	53.	87.	41.	3.	14.	9.	58.	40.	22.	56.	102.
%RSD	1.34	1.01	1.77	.816	.475	.262	1.65	1.08	.762	.434	1.11	1.88
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2593	Mo2045	Ni2216	Pb2169	Sb2068	Se2062	Tl2767	V_2908	Zn2062
Avg	**5350.**	**5660.**	**4990.**	**4960.**	**4930.**	**5000.**	**5330.**	**5250.**	**4850.**
Stddev	36.	113.	81.	99.	81.	87.	341.	51.	70.
%RSD	.670	2.00	1.62	1.99	1.64	1.74	6.40	.961	1.44
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**28159.**
Stddev	63.
%RSD	.22539

Sample Name: ccv2 Acquired: 12/20/2013 16:50:30 Type: QC
Method: DOD Calibration 1(v1591) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	**51.2**	**548.**	**540.**	**487.**	**49.1**	**475.**	**54.2**	**540.**	**540.**	**537.**	**536.**	**531.**
Stddev	.9	12.	11.	6.	.8	6.	1.3	12.	8.	13.	12.	10.
%RSD	1.79	2.26	2.10	1.14	1.72	1.33	2.45	2.27	1.48	2.33	2.31	1.90
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	**517.**	**543.**	**538.**	**546.**	**533.**	**535.**	**542.**	**523.**	**539.**
Stddev	11.	12.	12.	12.	10.	20.	14.	10.	12.
%RSD	2.09	2.13	2.26	2.17	1.90	3.68	2.50	1.87	2.13
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	**28240.**
Stddev	160.
%RSD	.56828

Sample Name: ccb Acquired: 12/20/2013 16:53:33 Type: QC
Method: DOD Calibration 1(v1591) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: Prep Batch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	Ba4554	Be3130	Ca3933	Cd2265	Co2286	Cr2677	Cu2247	Fe2599	Mg2802
Avg	.032	.806	.642	-1.40	-.128	-6.93	-.485	.045	-.530	1.48	-10.1	2.21
Stddev	.407	.926	1.94	.34	.099	.08	.106	.160	.444	.52	12.3	.13
%RSD	1260.	115.	303.	24.6	76.9	1.20	21.8	351.	83.9	35.2	121.	5.74
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Avg	.130	1.92	-.014	.293	3.56	8.29	-1.67	-2.90	-.536
Stddev	.483	.28	.275	1.57	2.54	4.00	3.59	.66	.132
%RSD	371.	14.5	1920.	534.	71.2	48.3	215.	22.7	24.6
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Int. Std.	Y_3600
Avg	28454.
Stddev	62.
%RSD	.21804

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Condition Report

Folder #: 101914
Client: WESTON SOLUTIONS, INC.

Print Date / Time: 12/20/2013 11:15
Received Date / Time / By: 10/15/2013 1050 JLS

Project Name: CAMP DAWSON
Project Phase:

Log-In Date / Time / By: 12/20/2013 1105 HHK
Project #:
PM: PML

Coolers: 5244
Custody Seals Present : **Y**

Temperature: 3.4 C On Ice: **Y**
COC Present:? **Y** Complete? **Y**

Seal Intact? **Y**
Ship Method: FEDEX
Adequate Packaging:

Numbers: SIGNED&DATED
Tracking Number: 796907415811
Temp Blank Enclosed?

Notes: SAMPLE WAS ORIGINALLY RECEIVED AND LOGGED IN ON 10/15/13 UNDER FOLDER 100700. CLIENT HAS REQUESTED THAT THIS SAMPLE BE REANALYZED FOR LEAD INCLUDING THE MS/MSD THAT SHOULD BE SPIKED AT THE CONCENTRATION FOUND IN THE SAMPLE.

Sample ID /	Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
413305	CDW-KD-13-SS01-05				
		SOLIDS	1	/	%SOL,ICP
		Total # of Containers of Type	**(*SOLIDS*) =**	**1**	

Condition Code	*Condition Description*
1	Sample Received OK

101914

Rev. 2/2013

CHAIN OF CUSTODY

Company: Weston
Project Contact: Jess Anderson
Telephone: 6107013513
Project Name: Camp Dawson
Project #: 03886.551.008.590
Location: Kingwood WV
Sampled By: Chuck Rapone

Folder #: 101914
Company: WESTON SOLUTIONS,
Project: CAMP DAWSON
Logged By: HHK PM: PM

230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Program: RCRA SDWA NPDES
Waste Other _____

PO # 83944

Report To: Jess Anderson
EMAIL: Jess.Anderson@westonsolutions.com
Company: Weston Solutions
Address: 1400 Weston Way West Chester PA
Invoice To:*
EMAIL: Same
Company:
Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

Matrix: GW – groundwater, SW - surface water, WW - wastewater, DW - drinking water, S - soil/sediment, SL - sludge, A - air, M - misc/waste

Turnaround Time: Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges: 24 hr 200%, 2-3 days 100%, 4-9 days 50%

ANALYSES REQUESTED: Lead, TCLP Lead

Collection Date	Collection Time	Matrix	Grab/Comp	Sample #	Sample ID Description	Filtered? Y/N	Lead	TCLP Lead	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
10/7	1612	S	G		CDW-KD-03-SS01-00	X	X				381281
10/8	1130	S	G		CDW-KD-15-SS01-00		X		413805	X	381282
10/8	1420	S	G		CDW-KD-16-SS01-00		X				381283
10/8	1600	S	G		CDW-KD-23-SS01-00		X	X			381284/285
10/8	0910	S	G		CDW-KD-07-SS01-00			X			381286
10/8	1050	S	G		CDW-KD-12-SS02-00			X			381287
10/8	1600	S	G		CDW-KD-23-SS02-00			X			381288
10/9	1015	S	G		CDW-KD-35-SS01-00		X				381289
10/9	0950	W	G		CDW-KD-25-SS01-02		X				381290
10/9	1210	S	G		CDW-KD-39-SS01-00		X				381291
10/9	1210	S	G		CDW-KD-39-SS01-01		X				381292
10/9	1400	W	G		CDW-KD-AA-FB01-00		X				381293

Fill in Spaces with Bottles per Test

Relinquished By:	Date/Time	Received By:	Date/Time
	10/14/13 1700		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
		HHK 10/15/13 @ 1228	
		HHK 12/20/13 1105	JLS 10/15/13 @ 1050

Lab Use Only
Ice Present (Yes) No
Temperature 3.4
Cooler # 5244

Letterer, Patrick M

From:	Fodor, Gretchen <Gretchen.Fodor@WestonSolutions.com>
Sent:	Friday, December 20, 2013 9:06 AM
To:	Warren, Steve; Letterer, Patrick M; Berwanger, Ceress H
Cc:	Gerhard, John P.; Anderson, Jess; Young, Stacie Popp
Subject:	Scott Chang request to reanalyze the soil sample for Camp Dawson, WV (CT Labs SDG 100700, sample CDW-KD-13-SS01-05, 381282)
Importance:	High

Ceress, Steve, and Pat,

As we expected, Scott Chang (USACE) was very unhappy with the underspiking of the MS/MSD for Camp Dawson lead samples. Although he requested below that both the soil lead and TCLP lead samples be reanalyzed with matrix spikes at levels that can have reasonable spike recoveries, I convinced him to drop the request for the TCLP lead reanalysis. Therefore, **please reanalyze soil sample 381282 (CDQ-KD-13-SS01-05) and an MS and MSD spike with a concentration of 8000 ug/L of lead.**

Please provide us with an ETA for this data package. **We need to fast track this request. When is the earliest available date we can see the report?**

Gretchen Fodor, CHMM
Weston Solutions, Inc.
Environmental Chemist and Scientist
Office: (703) 724-0544
Mobile: (603) 661-4463

-----Original Message-----
From: Chang, Scott NAB [mailto:Scott.H.Chang@usace.army.mil]
Sent: Tuesday, December 17, 2013 1:38 PM
To: Fodor, Gretchen
Subject: Field Work Data Package of KD MRS at Camp Dawson, WV (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Gretchen,

See Pages 73 and 76 of the CT Lab Report, MS/MSD failed for Client Samples CDW-KD-13-SS01-05 and CDW-KD-23-ss01-00.

Redo these 2 samples and spike (1) 8000 ug/L of lead to the Client Sample CDW-KD-13-SS01-05 (Parent Reasult:8390 ug/L) and (2) 10 mg/L of lead to Client Sample CDW-KD-23-ss01-00 (Parent Result: 11 mg/L).

Scott Chang

Classification: UNCLASSIFIED
Caveats: NONE

XRF RESULTS

Results of Field XRF Analyses for Lead in Soil
KD Range MRS Berm Area
MT2
October 7, 2013

Date	Sample ID	Reading	Mode	XRF Duration	Field1	Pb (ppm)	Pb +/-
7-Oct-13	Standardization	1	Standardization	9.71			
7-Oct-13	Standardization, Resolution = 230	2	Standardization	34.55			
7-Oct-13	Instrument Blank SiO2	3	Soil	82.51	Standard	8	2
7-Oct-13	Instrument Blank SiO2	4	Soil	82.33	Standard	11	2
7-Oct-13	Instrument Blank SiO2	5	Soil	82.53	Standard	7	2
7-Oct-13	NIST Standard 2711 Medium	6	Soil	77.34	Standard	1,085	14
7-Oct-13	NIST Standard 2711 Medium	7	Soil	77	Standard	1,105	14
7-Oct-13	NIST Standard 2711 Medium	8	Soil	77.04	Standard	1,093	14
7-Oct-13	NIST Standard 2711 Medium	9	Soil	77.03	Standard	1,125	14
7-Oct-13	NIST Standard 2711 Medium	10	Soil	77.17	Standard	1,106	14
7-Oct-13	NIST Standard 2711 Medium	11	Soil	77.41	Standard	1,107	14
7-Oct-13	NIST Standard 2711 Medium	12	Soil	77.25	Standard	1,122	14
7-Oct-13	CDW-KD-01-SS01	13	Soil	78.17	Standard	19	3
7-Oct-13	CDW-KD-02-SS01	14	Soil	76.29	Standard	22	3
7-Oct-13	CDW-KD-03-SS01	15	Soil	73.08	Standard	2,077	21
7-Oct-13	CDW-KD-04-SS01	16	Soil	75.84	Standard	3,768	36
7-Oct-13	Method Blank	17	Soil	71.76	Standard	18	2
7-Oct-13	CDW-KD-03-SS02	18	Soil	74.42	Standard	1,359	16
	Changed Battery on XRF						
7-Oct-13	Standardization, Resolution = 230	19	Standardization	34.7			
7-Oct-13	CDW-KD-03-SS03	20	Soil	78.03	Standard	858	12
7-Oct-13	CDW-KD-03-SS04	21	Soil	73.74	Standard	175	5
7-Oct-13	CDW-KD-04-SS02	22	Soil	72.9	Standard	1,895	19
7-Oct-13	CDW-KD-04-SS03	23	Soil	74.3	Standard	99	4
7-Oct-13	CDW-KD-05-SS01	24	Soil	73.56	Standard	218	5
7-Oct-13	CDW-KD-06-SS01	25	Soil	70.84	Standard	19	2
7-Oct-13	CDW-KD-01-SS01 - Dried	26	Soil	74.21	Standard	31	3
7-Oct-13	CDW-KD-02-SS01 - Dried	27	Soil	73.69	Standard	45	3

Field analysis completed by Mike Burkett of MT2

Results of Field XRF Analyses for Lead in Soil
KD Range MRS Berm Area
MT2
October 8, 2013

Date	Sample ID	Reading	Mode	XRF Duration	Field1	Pb (ppm)	Pb +/-
8-Oct-13	Successful standardization, resolution = 229	1	Standardization	34.46			
8-Oct-13	Instrument Blank; SiO2	2	Soil	81.13	Standard	7	2
8-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	3	Soil	78.6	Standard	19	3
8-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	4	Soil	78.67	Standard	18	3
8-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	5	Soil	78.5	Standard	23	3
8-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	6	Soil	78.48	Standard	24	3
8-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	7	Soil	78.49	Standard	15	3
8-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	8	Soil	78.57	Standard	20	3
8-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	9	Soil	78.65	Standard	21	3
8-Oct-13	CDW-KD-07-SS01	10	Soil	72.66	Standard	574	9
8-Oct-13	CDW-KD-08-SS01	11	Soil	72.45	Standard	16	2
8-Oct-13	CDW-KD-07-SS02	12	Soil	73.23	Standard	70	3
8-Oct-13	CDW-KD-09-SS01	13	Soil	72.31	Standard	15	2
8-Oct-13	CDW-KD-07-SS01 - Dried	14	Soil	72.92	Standard	844	11
8-Oct-13	CDW-KD-08-SS01 - Dried	15	Soil	73.7	Standard	19	3
8-Oct-13	CDW-KD-10-SS01	16	Soil	72.47	Standard	12	2
8-Oct-13	CDW-KD-11-SS01	17	Soil	72.93	Standard	12	2

Results of Field XRF Analyses for Lead in Soil
KD Range MRS Berm Area
MT2
October 8, 2013

Date	Sample ID	Reading	Mode	XRF Duration	Field1	Pb (ppm)	Pb +/-
8-Oct-13	CDW-KD-12-SS01	18	Soil	71.71	Standard	2,551	24
8-Oct-13	CDW-KD-12-SS02	19	Soil	73.88	Standard	687	10
8-Oct-13	CDW-KD-12-SS03	20	Soil	73.32	Standard	37	3
8-Oct-13	CDW-KD-07-SS02 - Dried	21	Soil	74.89	Standard	67	3
8-Oct-13	Method Blank that previous read 18	22	Soil	72.05	Standard	18	2
8-Oct-13	CDW-KD-13-SS01	23	Soil	73.61	Standard	200	5
8-Oct-13	CDW-KD-14-SS01	24	Soil	71.25	Standard	12	2
8-Oct-13	CDW-KD-15-SS01	25	Soil	72.95	Standard	14	2
8-Oct-13	CDW-KD-09-SS01 - Dried	26	Soil	74.77	Standard	17	3
8-Oct-13	CDW-KD-10-SS01 - Dried	27	Soil	74.88	Standard	20	3
8-Oct-13	CDW-KD-11-SS01 - Dried	28	Soil	74.3	Standard	22	3
8-Oct-13	CDW-KD-12-SS01 - Dried	29	Soil	75.02	Standard	3,418	33
	Changed battery on XRF						
8-Oct-13	Successful standardization, resolution = 229	30	Standardization	34.06			
8-Oct-13	CDW-KD-12-SS02 - Dried	31	Soil	74.64	Standard	1,002	13
8-Oct-13	CDW-KD-13-SS01 - Dried	32	Soil	75.63	Standard	324	7
8-Oct-13	Instrument Blank; SiO2	33	Soil	82.51	Standard	15	2
	Cleaned Kapton Window on XRF						
8-Oct-13	Instrument Blank; SiO2	34	Soil	82.34	Standard	10	2
8-Oct-13	CDW-KD-15-SS01 - Dried	35	Soil	74.91	Standard	21	3
8-Oct-13	CDW-KD-14-SS01 - Dried	36	Soil	75.15	Standard	17	2
8-Oct-13	CDW-KD-16-SS01	37	Soil	69.57	Standard	97	3
8-Oct-13	CDW-KD-17-SS01	38	Soil	73.47	Standard	21	2
8-Oct-13	CDW-KD-18-SS01	39	Soil	72.55	Standard	26	2
8-Oct-13	CDW-KD-19-SS01	40	Soil	73.01	Standard	16	2
8-Oct-13	CDW-KD-20-SS01	41	Soil	71.59	Standard	55	3
8-Oct-13	CDW-KD-21-SS01	42	Soil	71.84	Standard	493	8
8-Oct-13	CDW-KD-21-SS02	43	Soil	73.73	Standard	139	4
8-Oct-13	CDW-KD-16-SS01 - Dried	44	Soil	73.72	Standard	137	4
8-Oct-13	CDW-KD-17-SS01 - Dried	45	Soil	74.51	Standard	29	3
8-Oct-13	CDW-KD-18-SS01 - Dried	46	Soil	74.09	Standard	31	3

Results of Field XRF Analyses for Lead in Soil
KD Range MRS Berm Area
MT2
October 8, 2013

Date	Sample ID	Reading	Mode	XRF Duration	Field1	Pb (ppm)	Pb +/-
8-Oct-13	CDW-KD-22-SS01	47	Soil	72.15	Standard	46	3
8-Oct-13	CDW-KD-23-SS01	48	Soil	72.55	Standard	1,854	19
8-Oct-13	CDW-KD-24-SS01	49	Soil	72.84	Standard	212	5
8-Oct-13	CDW-KD-25-SS01	50	Soil	69.51	Standard	28	2
8-Oct-13	CDW-KD-23-SS02	51	Soil	73.69	Standard	1,584	17
8-Oct-13	CDW-KD-23-SS03	52	Soil	73.7	Standard	71	3
8-Oct-13	Instrument Blank; SiO2	53	Soil	81.73	Standard	ND <6	
8-Oct-13	CDW-KD-26-SS01	54	Soil	72.71	Standard	604	9
8-Oct-13	CDW-KD-27-SS01	55	Soil	72.81	Standard	49	3
8-Oct-13	CDW-KD-28-SS01	56	Soil	73.44	Standard	46	3
8-Oct-13	CDW-KD-29-SS01	57	Soil	71.08	Standard	21	2
8-Oct-13	CDW-KD-30-SS01	58	Soil	71.09	Standard	53	3
8-Oct-13	CDW-KD-31-SS01	59	Soil	70.55	Standard	80	3
8-Oct-13	CDW-KD-26-SS02	60	Soil	73.61	Standard	170	5
	Changed battery on XRF						
8-Oct-13	Successful standardization, resolution = 228	61	Standardization	34.29			
8-Oct-13	CDW-KD-19-SS01 - Dried	62	Soil	74.2	Standard	26	3
8-Oct-13	CDW-KD-20-SS01 - Dried	63	Soil	75.13	Standard	78	4
8-Oct-13	CDW-KD-21-SS01 - Dried	64	Soil	75.15	Standard	654	10
8-Oct-13	CDW-KD-21-SS02 - Dried	65	Soil	74.98	Standard	215	6
8-Oct-13	CDW-KD-22-SS01 - Dried	66	Soil	74.51	Standard	70	4
8-Oct-13	CDW-KD-23-SS01 - Dried	67	Soil	74.32	Standard	2,940	29
8-Oct-13	CDW-KD-24-SS01 - Dried	68	Soil	73.86	Standard	283	6
8-Oct-13	CDW-KD-25-SS01 - Dried	69	Soil	72.53	Standard	31	3
8-Oct-13	CDW-KD-23-SS02 - Dried	70	Soil	74.38	Standard	1,582	18
8-Oct-13	CDW-KD-23-SS03 - Dried	71	Soil	74.29	Standard	191	5

Field analysis completed by Mike Burkett of MT2

Results of Field XRF Analyses for Lead in Soil
KD Range MRS Berm Area
MT2
October 9, 2013

Date	Sample ID	Reading	Mode	XRF Duration	Field1	Pb (ppm)	Pb +/-
9-Oct-13	Successful standardization, resolution = 229	1	Standardization	34.34			
9-Oct-13	Instrument Blank; SiO2	2	Soil	82.87	Standard	9	2
9-Oct-13	Instrument Blank; SiO2	3	Soil	82.73	Standard	10	2
9-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	4	Soil	79.6	Standard	13	3
9-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	5	Soil	79.33	Standard	19	3
9-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	6	Soil	79.67	Standard	20	3
9-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	7	Soil	79.28	Standard	18	3
9-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	8	Soil	79.27	Standard	18	3
9-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	9	Soil	79.1	Standard	15	3
9-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	10	Soil	79.35	Standard	21	3
9-Oct-13	CDW-KD-32-SS01	11	Soil	66.11	Standard	47	3
9-Oct-13	CDW-KD-33-SS01	12	Soil	72.62	Standard	25	3

Results of Field XRF Analyses for Lead in Soil
KD Range MRS Berm Area
MT2
October 9, 2013

Date	Sample ID	Reading	Mode	XRF Duration	Field1	Pb (ppm)	Pb +/-
9-Oct-13	CDW-KD-34-SS01	13	Soil	71.54	Standard	36	3
9-Oct-13	CDW-KD-35-SS01	14	Soil	72.13	Standard	92	4
9-Oct-13	CDW-KD-36-SS01	15	Soil	73.18	Standard	49	3
9-Oct-13	CDW-KD-37-SS01	16	Soil	73.5	Standard	45	3
9-Oct-13	Method Blank that previous read 18	17	Soil	72.03	Standard	23	2
9-Oct-13	CDW-KD-26-SS01 - Dried	18	Soil	73.56	Standard	713	10
9-Oct-13	CDW-KD-26-SS02 - Dried	19	Soil	75.04	Standard	200	5
9-Oct-13	CDW-KD-27-SS01 - Dried	20	Soil	74.66	Standard	60	3
9-Oct-13	CDW-KD-28-SS01 - Dried	21	Soil	74.68	Standard	41	3
9-Oct-13	CDW-KD-29-SS01 - Dried	22	Soil	74.8	Standard	35	3
9-Oct-13	CDW-KD-30-SS01 - Dried	23	Soil	75.59	Standard	47	3
9-Oct-13	CDW-KD-31-SS01 - Dried	24	Soil	75.52	Standard	109	4
9-Oct-13	CDW-KD-38-SSO1	25	Soil	70.76	Standard	49	3
9-Oct-13	CDW-KD-39-SSO1	26	Soil	71.92	Standard	54	3
	Changed battery on XRF						
9-Oct-13	Successful standardization, resolution = 229	27	Standardization	34.41			
9-Oct-13	CDW-KD-32-SS01 - Dried	28	Soil	75.07	Standard	73	4
9-Oct-13	CDW-KD-33-SS01 - Dried	29	Soil	75.63	Standard	42	3
9-Oct-13	CDW-KD-34-SS01 - Dried	30	Soil	73.39	Standard	63	3
9-Oct-13	CDW-KD-35-SS01 - Dried	31	Soil	75.74	Standard	69	4
9-Oct-13	CDW-KD-36-SS01 - Dried	32	Soil	76.2	Standard	77	4
9-Oct-13	CDW-KD-37-SS01 - Dried	33	Soil	75.06	Standard	65	4
9-Oct-13	Instrument Blank; SiO2	34	Soil	82.27	Standard	ND<7	
9-Oct-13	CDW-KD-40-SS01	35	Soil	79.29	Standard	15	3
9-Oct-13	CDW-KD-41-SS01	36	Soil	81.93	Standard	16	3
9-Oct-13	CDW-KD-38-SS01 - Dried	37	Soil	75.1	Standard	70	3
9-Oct-13	CDW-KD-39-SS01 - Dried	38	Soil	73.84	Standard	92	4
9-Oct-13	CDW-KD-42-SSO1	39	Soil	69.79	Standard	93	4

Results of Field XRF Analyses for Lead in Soil
KD Range MRS Berm Area
MT2
October 9, 2013

Date	Sample ID	Reading	Mode	XRF Duration	Field1	Pb (ppm)	Pb +/-
9-Oct-13	CDW-KD-43-SSO1	40	Soil	76.79	Standard	50	3
9-Oct-13	CDW-KD-44-SSO1	41	Soil	72.58	Standard	19	3
9-Oct-13	CDW-KD-40-SS01 - Dried	42	Soil	74.88	Standard	25	3
9-Oct-13	CDW-KD-41-SS01 - Dried	43	Soil	73.43	Standard	26	3
9-Oct-13	CDW-KD-42-SS01 - Dried	44	Soil	76.00	Standard	158	5
9-Oct-13	Successful standardization, resolution = 226	45	Standardization	33.80			
9-Oct-13	CDW-KD-43-SS01 - Dried	46	Soil	76.36	Standard	63	4
9-Oct-13	CDW-KD-44-SS01 - Dried	47	Soil	74.54	Standard	21	3

Field analysis completed by Mike Burkett of MT2

Results of Field XRF Analyses for Lead in Soil
KD Range MRS Berm Area
MT2
October 10, 2013

Date	Sample ID	Reading	Mode	XRF Duration	Field1	Pb (ppm)	Pb +/-
10-Oct-13	Successful standardization, resolution = 230	1	Standardization	34.43			
10-Oct-13	Instrument Blank; SiO2	2	Soil	82.19	Standard	11	2
10-Oct-13	Instrument Blank; SiO2	3	Soil	82.61	Standard	ND<7	
10-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	4	Soil	78.04	Standard	13	3
10-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	5	Soil	78.18	Standard	19	3
10-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	6	Soil	79.14	Standard	27	3
10-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	7	Soil	78.07	Standard	21	3
10-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	8	Soil	78.16	Standard	22	3
10-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	9	Soil	78.04	Standard	18	3
10-Oct-13	Calibration and Precision Sample Measurement using NIST #2709 Low with Pb given value of 18.9	10	Soil	78	Standard	20	3
10-Oct-13	CDW-KD-45-SS01	11	Soil	71.4	Standard	71	3
10-Oct-13	CDW-KD-46-SS01	12	Soil	73.54	Standard	43	3
10-Oct-13	CDW-KD-47-SS01	13	Soil	75.21	Standard	51	3
10-Oct-13	CDW-KD-48-SS01	14	Soil	71.87	Standard	30	3

Results of Field XRF Analyses for Lead in Soil
KD Range MRS Berm Area
MT2
October 10, 2013

Date	Sample ID	Reading	Mode	XRF Duration	Field1	Pb (ppm)	Pb +/-
10-Oct-13	CDW-KD-49-SS01	15	Soil	73.82	Standard	55	3
10-Oct-13	CDW-KD-50-SS01	16	Soil	72.39	Standard	75	2
10-Oct-13	CDW-KD-45-SS01 - Dried	17	Soil	74.64	Standard	91	4
10-Oct-13	CDW-KD-46-SS01 - Dried	18	Soil	74.89	Standard	60	4
10-Oct-13	CDW-KD-47-SS01 - Dried	19	Soil	74.95	Standard	70	4
10-Oct-13	CDW-KD-48-SS01 - Dried	20	Soil	73.50	Standard	47	3
10-Oct-13	CDW-KD-49-SS01 - Dried	21	Soil	73.13	Standard	85	4
10-Oct-13	CDW-KD-50-SS01 - Dried	22	Soil	73.38	Standard	92	4

Field analysis completed by Mike Burkett of MT2