CompuChem

A Division Of

Liberty Analytical Corp.

8/22/2014

SMITA SUMBALY

WESTON SOLUTIONS

1090 KING GEORGES POST RD. SUITE 201

EDISON, NJ 088373703

Subject:

Report of Data - Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

WorkOrder: 1408019 MT2/Hg 6010C/7471B

Attn.: SMITA SUMBALY

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES 293

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

325669

CompuChem, a division of Liberty Analytical

Client: WESTON SOLUTIONS **Work:** 1408019

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ **Sdg:** 1408019

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1408019-01	P001-COMP01-LW-01	Soil	08/06/2014 00:00	08/07/2014 09:03
1408019-02	P001-DR0314-LW-01	Soil	08/06/2014 00:00	08/07/2014 09:03
1408019-03	P001-PL0202-SW-01	Soil	08/06/2014 00:00	08/07/2014 09:03
1408019-04	P001-DR0310-LW-01	Soil	08/06/2014 00:00	08/07/2014 09:03
1408019-05	P001-DR0312-LW-01	Soil	08/06/2014 00:00	08/07/2014 09:03
1408019-06	P001-DR0702-SW-01	Soil	08/06/2014 00:00	08/07/2014 09:03
1408019-07	P001-DR0302-LW-01	Soil	08/06/2014 00:00	08/07/2014 09:03
1408019-08	P001-DR0501-LW-01	Soil	08/06/2014 00:00	08/07/2014 09:03
1408019-09	P001-DR0703-LW-01	Soil	08/06/2014 00:00	08/07/2014 09:03
1408019-10	P001-UST01-LW-01	Soil	08/07/2014 00:00	08/07/2014 09:04

ANALYSES DATA PACKAGE COVER PAGE

Client: WESTON SOLUTIONS

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Laboratory: COMPUCHEM

SDG: 1408019

Client Sample Id:	Analysis:	Lab Sample Id:
P001-COMP01-LW-01	EPA 7471B	1408019-01
P001-COMP01-LW-01	EPA 6010C	1408019-01
P001-DR0314-LW-01	EPA 6010C	1408019-02
P001-DR0314-LW-01	EPA 7471B	1408019-02
P001-PL0202-SW-01	EPA 6010C	1408019-03
P001-PL0202-SW-01	EPA 7471B	1408019-03
P001-DR0310-LW-01	EPA 6010C	1408019-04
P001-DR0310-LW-01	EPA 7471B	1408019-04
P001-DR0312-LW-01	EPA 7471B	1408019-05
P001-DR0312-LW-01	EPA 6010C	1408019-05
P001-DR0702-SW-01	EPA 6010C	1408019-06
P001-DR0702-SW-01	EPA 7471B	1408019-06
P001-DR0302-LW-01	EPA 6010C	1408019-07
P001-DR0302-LW-01	EPA 7471B	1408019-07
P001-DR0501-LW-01	EPA 6010C	1408019-08
P001-DR0501-LW-01	EPA 7471B	1408019-08
P001-UST01-LW-01	EPA 7471B	1408019-10
P001-UST01-LW-01	EPA 6010C	1408019-10

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions addressed in the narrative. Release of the data contained in this hardcopy data package and in the Electronic Data Deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Steve Pruskin

Date: 08/13/2014 Title: Technical Director

CompuChem
A Division Of
Liberty Analytical Corp.

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

ACCREDITED IN ACCORDANCE WITH nelac

I. SAMPLE DATA PACKAGE

The Sample Data Summary Package shall contain data for all samples in one Work Order/Sample Delivery Group (SDG), as follows:

A. SDG Narrative

B. Chain of Custody Records

C. Sample Preparation and Analysis Holding Time Data
(HOLDING TIME SUMMARY)

D. MDL
(MDL SUMMARY)

E. Laboratory Control Sample Results
(LCS/LCS DUPLICATE RECOVERY)

F. Matrix Spike Results
(MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY)

G. Serial Dilution Results– if applicable
(SERIAL DILUTION)

H. Post Digestion Spike Sample Recovery Results– if applicable
(POST DIGEST SPIKE SAMPLE RECOVERY)

I. Duplicate Results
(DUPLICATES)

J. Batch Summary
(PREPARATION BATCH SUMMARY)

K. Analysis Sequence Summary
(ANALYSIS SEQUENCE SUMMARY)

L. Target Element Results
(ANALYSIS DATA SHEET)

M. Low Level Initial and Continuing Calibration Check Results– if applicable
(LOW LEVEL INITIAL AND CONTINUING CALIBRATION CHECK)

N. Initial and Continuing Calibration Results
(INITIAL CALIBRATION DATA)
(INITIAL AND CONTINUING CALIBRATION CHECK)

O. Low Range Standard Results– if applicable
(LOW RANGE STANDARD)

P. High Range Standard– if applicable
(HIGH RANGE STANDARD)

Q. ICP-AES and ICP-MS Instrument Results - if applicable
(ICP INTERFERENCE CHECK SAMPLE)
(ICP-AES AND ICP-MS LINEAR RANGES)
(ICP-AES INTERELEMENT CORRECTION FACTORS)
(ICP-MS TUNE)
(ICPMS Internal Standards Relative Intensity Summary)

R. Method and Instrument Blank Results
(BLANKS)

S. Run Logs/Raw Data

T. Digestion and Distillation Logs

U. Standard Info / Internal Coc Documents

A. SDG Narrative

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue
Cary, NC 27513

SDG NARRATIVE
SDG # 1408019
Client: WESTON SOLUTIONS
Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

The indicated Sample Delivery Group (SDG) consisting of two (10) solid samples was received into the laboratory information management system (LIMS) on August 7 and August 8, 2014 intact and in good condition with the Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. The cooler temperature indicator bottle was found with the samples and the sample's temperatures ranged from 5.2 to 24.6 degrees Celsius. Temperature was recorded by IR temperature gun.

The samples were prepared and analyzed in accordance with SW846 6010C/7471B methodology for the requested metals and mercury.

EQUATIONS FOR SOLID SAMPLE CALCULATIONS:

Equation for obtaining metals sample results in mg/Kg as presented on data form sheet from ICP instrument acquired results in µg/L (ppb).

$$\text{Concentration (\% solids) (mg/Kg)} \quad \frac{C \times V}{W \times S} \times DF$$

Where
C = concentration (µg/L)
DF = dilution factor
V = final volume in liters after sample preparation
W = weight in grams of wet sample
S = % solids/100

Example: Arsenic result µg/L to mg/Kg from sample P001-COMP01-LW-01

$$\frac{3.558962\ \mu g/L \times 0.1\ L\ (V)}{1.01\ g\ (W) \times 1} \times 1 = 0.352\ mg/Kg \text{ reported as } 0.352\ mg/Kg$$

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (LLICV, LLCCV, ICV & CCV), blanks (ICB, & CCB), and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within SW-846 methodology.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSS, LCSSD, & PBS) were found to be within acceptable ranges and the field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:

No Quality Control Sample was assigned to this SDG.

A five-fold serial dilution of sample, P001-COMP01-LW-01 was performed in accordance with SW-846 requirements for ICP analysis.

The adjusted sample concentration was inside control limits.

I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on CD has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Steven L. Pruskin
Technical Director
August 13, 2014

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.). This policy is also applicable to non-CLP data packages.

INORGANIC DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. The qualifiers used are:

U : This flag indicates the compound was analyzed for, not detected and is reported as less than the Method Detection Limit (MDL) (or as defined by the client). The Reporting Limit (RL), or Limit of Quantitation (LOQ), and the MDL will be adjusted to reflect any dilution or concentration of the sample and, for soils, the percent moisture.

J : This flag indicates the reported result is an estimated value. The flag is used when an analyte is detected and the result is less than the adjusted RL/LOQ but equal to or greater than the MDL.

Q : This flag denotes that one or more quality control criteria have failed (e.g., LCS recovery, Continuing Calibration Verification, CCV, and interference check standards for ICP-AES/ICP-MS) and reanalyses can't be performed. The Q flag is applied to all specific analyte(s) in all samples associated with the failed quality control criteria.

B : This flag is used when the analyte is found in the associated method or calibration blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

D: This flag is applied to an analyte when the reported result is based on a dilution.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

The extensions: D, S, SD, L, and A are added to the end of the Client ID and represent the following:

D – Matrix Duplicate
S – Matrix Spike
SD – Matrix Spike Duplicate
L – Serial Dilution
A – Post Digestion Spike

Revision 0 (11-09-2010)

B. Chain of Custody Records

The laboratory shall include a copy of the Chain-of-Custody (CoC) documentation for all of the samples in the Work Order/SDG. The CoC documents shall be arranged in increasing Client Sample ID number order, considering both letters and numbers.

Can 1 of 3

USEPA
DateShipped: 8/6/2014
CarrierName: FedEx
AirbillNo: 502978208623

CHAIN OF CUSTODY RECORD
Case #: 306
Contact Name: Peter Lisichenko
Contact Phone: 6035124350

No: 2-080614-124106-0001
Cooler #: 1A
Lab: Compuchem Labs Inc.
Lab Phone: 919-379-4089

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
1408019-01	P001-COMP01-LW-01	Area03	VOCs	Liquid Waste	8/6/2014	1	4 oz	None	N
	P001-COMP01-LW-01	Area03	SVOC+PCB+PEST	Liquid Waste	8/6/2014	1	8 oz	None	N
	P001-COMP01-LW-01	Area03	RCRA	Liquid Waste	8/6/2014	1	8 oz	None	N
	P001-COMP01-LW-01	Area03	METALS+Hg	Liquid Waste	8/6/2014	1	500 ml	None	N
1408019-02	P001-DR0314-LW-01	Area03	VOCs	Liquid Waste	8/6/2014	1	4 oz	None	N
	P001-DR0314-LW-01	Area03	SVOC+PCB+PEST	Liquid Waste	8/6/2014	1	8 oz	None	N
	P001-DR0314-LW-01	Area03	RCRA	Liquid Waste	8/6/2014	1	8 oz	None	N
	P001-DR0314-LW-01	Area03	METALS+Hg	Liquid Waste	8/6/2014	1	500 ml	None	N
1408019-03	P001-PL0202-SW-01	Area02	VOCs	Solid Waste	8/6/2014	1	4 oz	None	N
	P001-PL0202-SW-01	Area02	SVOC+PCB+PEST	Solid Waste	8/6/2014	1	8 oz	None	N
	P001-PL0202-SW-01	Area02	RCRA	Solid Waste	8/6/2014	1	8 oz	None	N
	P001-PL0202-SW-01	Area02	METALS+Hg	Solid Waste	8/6/2014	1	~~2 oz~~ 4oz rec'd 4oz jar 8/7/14	None	N

Special Instructions: RFP 306
Analyze lower phase (green liquid) for P001-DR0314-01. All others should be upper phase.

rec'd @ 24.6°C ambient / in can for dangerous goods 8/7/14

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All samples All analysis	(Wesson)	8/6/14	Doll / CompuChem	8/7/14 0903	Good condition 8/7/14

Can 2 of 3

USEPA
DateShipped: 8/6/2014
CarrierName: FedEx
AirbillNo: 502978208623

CHAIN OF CUSTODY RECORD
Case #: 306
Contact Name: Peter Lisichenko
Contact Phone: 6035124350

No: 2-080614-125105-0002
Cooler #: 1B
Lab: Compuchem Labs Inc.
Lab Phone: 919-379-4089

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
1408019-04	P001-DR0310-LW-01	Area03	VOCs	Liquid Waste	8/6/2014	1	4 oz	None	N
	P001-DR0310-LW-01	Area03	SVOC+PCB+PEST	Liquid Waste	8/6/2014	1	8 oz	None	N
	P001-DR0310-LW-01	Area03	RCRA	Liquid Waste	8/6/2014	1	8 oz	None	N
	P001-DR0310-LW-01	Area03	METALS+Hg	Liquid Waste	8/6/2014	1	500 ml	None	N
1408019-05	P001-DR0312-LW-01	Area03	VOCs	Liquid Waste	8/6/2014	1	4 oz	None	N
	P001-DR0312-LW-01	Area03	SVOC+PCB+PEST	Liquid Waste	8/6/2014	1	8 oz	None	N
	P001-DR0312-LW-01	Area03	RCRA	Liquid Waste	8/6/2014	1	8 oz	None	N
	P001-DR0312-LW-01	Area03	METALS+Hg	Liquid Waste	8/6/2014	1	500 ml	None	N
1408019-06	P001-DR0702-SW-01	Area07	VOCs	Solid Waste	8/6/2014	1	4 oz	None	N
	P001-DR0702-SW-01	Area07	SVOC+PCB+PEST	Solid Waste	8/6/2014	1	8 oz	None	N
	P001-DR0702-SW-01	Area07	RCRA	Solid Waste	8/6/2014	1	8 oz	None	N
	P001-DR0702-SW-01	Area07	METALS+Hg	Solid Waste	8/6/2014	1	~~2 oz~~ 4 oz jar received @ 8/7/14	None	N

Special Instructions: RFP 306
Analyze upper phase of liquids

recd @ 24.4°C ambient / in cas for dangerous goods @ 8/7/14

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIS	(WESTON)	8/6/14	/ CompuChem	8/7/14 0903	good condition @ 8/7/14

Can 3 of 3

USEPA
DateShipped: 8/6/2014
CarrierName: FedEx
AirbillNo: 502978208623

CHAIN OF CUSTODY RECORD
Case #: 306
Contact Name: Peter Lisichenko
Contact Phone: 6035124350

No: 2-080614-130807-0003
Cooler #: 1C
Lab: Compuchem Labs Inc.
Lab Phone: 919-379-4089

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
1408019-07	P001-DR0302-LW-01	Area03	VOCs	Liquid Waste	8/6/2014	1	4 oz	None	N
	P001-DR0302-LW-01	Area03	SVOC+PCB+PEST	Liquid Waste	8/6/2014	1	8 oz	None	N
	P001-DR0302-LW-01	Area03	RCRA	Liquid Waste	8/6/2014	1	8 oz	None	N
	P001-DR0302-LW-01	Area03	METALS+Hg	Liquid Waste	8/6/2014	1	500 ml	None	N
1408019-08	P001-DR0501-LW-01	Area05	VOCs	Liquid Waste	8/6/2014	1	4 oz	None	N
	P001-DR0501-LW-01	Area05	SVOC+PCB+PEST	Liquid Waste	8/6/2014	1	8 oz	None	N
	P001-DR0501-LW-01	Area05	RCRA	Liquid Waste	8/6/2014	1	8 oz	None	N
	P001-DR0501-LW-01	Area05	METALS+Hg	Liquid Waste	8/6/2014	1	500 ml	None	N
1408019-09	P001-DR0703-LW-01	Area07	RCRA	Liquid Waste	8/6/2014	1	8 oz	None	N

Special Instructions: RFP 306
Analyze upper phase of liquids

rec'd @ 24.2°C ambient/in can for dangerous goods @ 8/7/14

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All items/ All analyses	(Weston)	8/6/14	CompuChem	8/7/14 0903	good condition @ 8/7/14

Precautionary Measures Against Hidden Hazards in Laboratory Samples

Notice to Laboratory Personnel

Background

Under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) of 1980, as amended, Section 311 of the Clean Water Act (CWA), as amended, by the Oil Pollution Act of 1990 (OPA), Subtitle I of the Resource Conversation and Recovery Act (RCRA), and pursuant to the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) and Presidential Decision Document (PDD) #39, the Environmental Protection Agency (EPA) has been delegated the responsibility to undertake response actions with respect to, as a general matter, the release or threat of release of oil, petroleum products, hazardous substances, or pollutant and contaminants, that pose an actual or potential threat to human health or welfare, or to the environment. EPA is responsible for conducting evaluations and cleanups of uncontrolled hazardous substance disposal sites and placing those that are considered to pose a significant threat to the public health or the environment on the National Priorities List (NPL).

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of a contracted Removal Support Team (RST) for EPA. The WESTON RST Contract EP-W-06-072, provides this support to EPA Region II.

Hazard Communication

The samples which accompany this notice were shipped to your laboratory for analysis in accordance with applicable D.O.T. or IATA Regulations and were collected by the WESTON RST and tentatively designated by the field response team, as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, wells, and off-site soil locations that are not reasonable expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples*. Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times average background as scanned with a radiation survey meter are considered *Radioactive Samples*.

The samples which accompany this notice were tentatively classified by the field response team as:

_____ Environmental XXX Hazardous _____ Comb. (Enviro. & Hazard.) _____ Radioactive

The field team which collected the samples, used the following Level(s) of personal protection as designated by EPA and OSHA conventions to provide protection against possible radiological or chemical exposure:

_____ Level A XXX Level B _____ Level C _____ Level D

The information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA and OSHA regulations. The Sample classification(s) and Levels of personal protection used by the WESTON RST are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgment.

Laboratory Name CompuChem *RFP No.* 306
Prepared by: Lisichenko, P *Date* 8/6/2014

WESTON Office: Region II RST, Edison, NJ; Phone: 732-585-4400 Fax: 732-225-7037

USEPA
DateShipped: 8/7/2014
CarrierName: FedEx
AirbillNo: 7707 8581 7446

CHAIN OF CUSTODY RECORD
Case #: 306
Contact Name: Peter Lisichenko
Contact Phone: 6035124350

No: 2-080714-151350-0005
Cooler #: 2A
Lab: Compuchem Labs Inc.
Lab Phone: 919-379-4089

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
1408024-01	P001-S002-0002-01	P001-S002	VOCs	Soil	8/7/2014	3	5 gram Encore	0 C	N
	P001-S002-0002-01	P001-S002	SVOC + PCB	Soil	8/7/2014	1	8 oz	0 C	N
	P001-S002-0002-01	P001-S002	Percent Moisture	Soil	8/7/2014	1	2 oz	0 C	N
	P001-S002-0002-01	P001-S002	Metals + Hg	Soil	8/7/2014	1	8 oz	0 C	N
1408024-02	P001-S003-0002-01	P001-S003	VOCs	Soil	8/7/2014	6	5 gram Encore	0 C	Y
	P001-S003-0002-01	P001-S003	SVOC + PCB	Soil	8/7/2014	2	8 oz	0 C	Y
	P001-S003-0002-01	P001-S003	Percent Moisture	Soil	8/7/2014	2	2 oz	0 C	Y
	P001-S003-0002-01	P001-S003	Metals + Hg	Soil	8/7/2014	2	8 oz	0 C	Y
1408024-03	P001-S003-0002-02	P001-S003	VOCs	Soil	8/7/2014	3	5 gram Encore	0 C	N
	P001-S003-0002-02	P001-S003	SVOC + PCB	Soil	8/7/2014	1	8 oz	0 C	N
	P001-S003-0002-02	P001-S003	Percent Moisture	Soil	8/7/2014	1	2 oz	0 C	N
	P001-S003-0002-02	P001-S003	Metals + Hg	Soil	8/7/2014	1	8 oz	0 C	N
1408024-04	P001-S004-0002-01	P001-S004	SVOC + PCB	Soil	8/7/2014	1	8 oz	0 C	N
	~~P001-S005-0002-01~~	~~P001-S005~~	~~VOCs~~	~~Soil~~	~~8/7/2014~~	~~3~~	~~5 gram Encore~~	~~0 C~~	~~N~~
1408024-07	P001-S005-0002-01	P001-S005	SVOC + PCB	Soil	8/7/2014	1	8 oz	0 C	N
—	P001-S005-0002-01	P001-S005	Percent Moisture *	Soil	8/7/2014	1	2 oz *	0 C	N
1408024-07	P001-S005-0002-01	P001-S005	Metals + Hg	Soil	8/7/2014	1	8 oz	0 C	N
1408024-08	P001-S006-0002-01	P001-S006	VOCs	Soil	8/7/2014	3	5 gram Encore	0 C	N
	P001-S006-0002-01	P001-S006	SVOC + PCB	Soil	8/7/2014	1	8 oz	0 C	N

PL.

Special Instructions: RFP 306

*did not receive % moisture 2oz jar for P001-S005-0002-01 where VOA was crossed off rec'd @ 5.2°C 8/8/14

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIS	(WESTON)	8/7/14	Doe / CompuChem	8/8/14 0904	good condition 8/8/14

USEPA
DateShipped: 8/7/2014
CarrierName: FedEx
AirbillNo: 7707 8581 7446

CHAIN OF CUSTODY RECORD
Case #: 306
Contact Name: Peter Lisichenko
Contact Phone: 6035124350

No: 2-080714-151350-0005
Cooler #: 2A
Lab: Compuchem Labs Inc.
Lab Phone: 919-379-4089

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
1408024-04	P001-S006-0002-01	P001-S006	Percent Moisture	Soil	8/7/2014	1	2 oz	0 C	N
	P001-S006-0002-01	P001-S006	Metals + Hg	Soil	8/7/2014	1	8 oz	0 C	N
1408019-10	P001-UST01-LW-01	UST01	VOCs	Liquid Waste	8/7/2014	1	4 oz	None	N
	P001-UST01-LW-01	UST01	SVOC+PCB+PEST	Liquid Waste	8/7/2014	1	8 oz	None	N
	P001-UST01-LW-01	UST01	RCRA	Liquid Waste	8/7/2014	1	8 oz	None	N
	P001-UST01-LW-01	UST01	METALS+Hg	Liquid Waste	8/7/2014	1	500 ml	None	N
1408024-05	P001-S001-0002-01	P001-S001	VOCs	Soil	8/7/2014	3	5 gram Encore	0 C	N
	P001-S001-0002-01	P001-S001	SVOC + PCB	Soil	8/7/2014	1	8 oz	0 C	N
	P001-S001-0002-01	P001-S001	Percent Moisture	Soil	8/7/2014	1	2 oz	0 C	N
	P001-S001-0002-01	P001-S001	Metals + Hg	Soil	8/7/2014	1	8 oz	0 C	N

Special Instructions: RFP 306 rec'd @ 5.2°C

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIS	(WESTON)	8/7/14	CompuChem	8/8/14 0904	good condition 8/8/14

Precautionary Measures Against Hidden Hazards in Laboratory Samples

Notice to Laboratory Personnel

Background

Under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) of 1980, as amended, Section 311 of the Clean Water Act (CWA), as amended, by the Oil Pollution Act of 1990 (OPA), Subtitle I of the Resource Conversation and Recovery Act (RCRA), and pursuant to the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) and Presidential Decision Document (PDD) #39, the Environmental Protection Agency (EPA) has been delegated the responsibility to undertake response actions with respect to, as a general matter, the release or threat of release of oil, petroleum products, hazardous substances, or pollutant and contaminants, that pose an actual or potential threat to human health or welfare, or to the environment. EPA is responsible for conducting evaluations and cleanups of uncontrolled hazardous substance disposal sites and placing those that are considered to pose a significant threat to the public health or the environment on the National Priorities List (NPL).

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of a contracted Removal Support Team (RST) for EPA. The WESTON RST Contract EP-W-06-072, provides this support to EPA Region II.

Hazard Communication

The samples which accompany this notice were shipped to your laboratory for analysis in accordance with applicable D.O.T. or IATA Regulations and were collected by the WESTON RST and tentatively designated by the field response team, as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, wells, and off-site soil locations that are not reasonable expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples*. Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times average background as scanned with a radiation survey meter are considered *Radioactive Samples*.

The samples which accompany this notice were tentatively classified by the field response team as:

XXX Environmental _____ Hazardous _____ Comb. (Enviro. & Hazard.) _____ Radioactive

The field team which collected the samples, used the following Level(s) of personal protection as designated by EPA and OSHA conventions to provide protection against possible radiological or chemical exposure:

_____ Level A _____ Level B _____ Level C XXX Level D

The information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA and OSHA regulations. The Sample classification(s) and Levels of personal protection used by the WESTON RST are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgment.

Laboratory Name CompuChem *RFP No.* 306
Prepared by: Lisichenko, P *Date* 8/6/2014

WESTON Office: Region II RST, Edison, NJ; Phone: 732-585-4400 Fax: 732-225-7037

WORK ORDER

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1408019

COMPUCHEM

Client:	**WESTON SOLUTIONS**	**Project Manager:**	**Cathy Dover**
Project:	**RST2/RFP306/EP-S2-14-01/SITE ID:ZZ**	**Project Number:**	**RST2/RFP306/EP-S2-14-01/SITE ID:ZZ**
SDG:	**1408019** **CASE:**	**Status:**	**Batched**

Report To:
WESTON SOLUTIONS
SMITA SUMBALY
1090 KING GEORGES POST RD. SUITE 201
EDISON, NJ 088373703
Phone: (732) 225-6116
Fax: -

Invoice To:
WESTON SOLUTIONS
SMITA SUMBALY
1090 KING GEORGES POST RD. SUITE 201
EDISON, NJ 088373703
Phone :(732) 225-6116
Fax: -

Date Due:	08/21/2014 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	08/08/2014 09:04
Logged In By:	Cathy Dover	Date Logged In:	08/08/2014 08:56

J & B Flags?: **YES** Metals ND to? **MDL**	TICS?: **EPA-TICS** Spike Level: **FULL Spike**	Deliverable: **Level 4**	EDD : **61) CUSTOM EXCEL**

LCS/LCSD*CAUTION WASTE DRUM SAMPLES*NOTE SAMPLE COMMENTS FOR INSTRUCTIONS(MSDS ATTACHED) *TCL4 VOA 5PPB + EPA-LIKE TICs(MAY NEED MED.LEVEL)*SVOC 8270D TCL4+EPA-LIKE TICs,TCL PEST 8081B & TCL PCB 8082A ARE ALL DILUTE-N-SHOOT*TAL METALS 6010C + Hg 7471B*RIC

Analysis	Due	TAT	Expires	Received	Comments
1408019-01 P001-COMP01-LW-01 [Soil] Sampled 08/06/2014 00:00 Eastern					**USE ONLY UPPER PHASE OF SAMPLE**
REACTIVE CYANIDE 9014	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	
VOA-8260B 5PPB	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=VOA- TCL4 (08-08-14)
SVOC 8270D Dilute-n-shoot	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=SV- TCL4 (08-08-14)
REACTIVE SULFIDE 9034	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	
IGNITABILITY 1010A	08/21/2014 16:00	13	09/03/2014 00:00	08/07/2014 09:03	
GC-8082A PCB DILUTE-N-SHOOT	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=GC- 8082 8082 (08-08-14)
GC-8081B PEST Dilute-n-Shoot	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=GC- 8081 TCLnoPCB (08-08-14)
CORROSIVITY 9040B-9040C	08/21/2014 16:00	13	08/18/2014 00:00	08/07/2014 09:03	
7470A 7471B Mercury	08/21/2014 16:00	13	09/03/2014 00:00	08/07/2014 09:03	
6010C METALS	08/21/2014 16:00	13	02/02/2015 00:00	08/07/2014 09:03	
Solids, Dry Weight	08/21/2014 16:00	13	02/02/2015 00:00	08/07/2014 09:03	

WORK ORDER

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1408019

COMPUCHEM

Client:	**WESTON SOLUTIONS**	**Project Manager:**	**Cathy Dover**
Project:	**RST2/RFP306/EP-S2-14-01/SITE ID:ZZ**	**Project Number:**	**RST2/RFP306/EP-S2-14-01/SITE ID:ZZ**
SDG:	**1408019** **CASE:**	**Status:**	**Batched**

Date Due:	08/21/2014 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	08/08/2014 09:04
Logged In By:	Cathy Dover	Date Logged In:	08/08/2014 08:56

J & B Flags?: **YES**	TICS?: **EPA-TICS**	Deliverable: **Level 4**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**		

LCS/LCSD*CAUTION WASTE DRUM SAMPLES*NOTE SAMPLE COMMENTS FOR INSTRUCTIONS(MSDS ATTACHED) *TCL4 VOA 5PPB + EPA-LIKE TICs(MAY NEED MED.LEVEL)*SVOC 8270D TCL4+EPA-LIKE TICs,TCL PEST 8081B & TCL PCB 8082A ARE ALL DILUTE-N-SHOOT*TAL METALS 6010C + Hg 7471B*RIC

Analysis	Due	TAT	Expires	Received	Comments
1408019-02 P001-DR0314-LW-01 [Soil] Sampled 08/06/2014 00:00 Eastern					**USE ONLY GREEN LOWER PHASE OF SAMPLE**
7470A 7471B Mercury	08/21/2014 16:00	13	09/03/2014 00:00	08/07/2014 09:03	
VOA-8260B 5PPB	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=VOA- TCL4 (08-08-14)
SVOC 8270D Dilute-n-shoot	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=SV- TCL4 (08-08-14)
Solids, Dry Weight	08/21/2014 16:00	13	02/02/2015 00:00	08/07/2014 09:03	
REACTIVE SULFIDE 9034	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	
REACTIVE CYANIDE 9014	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	
IGNITABILITY 1010A	08/21/2014 16:00	13	09/03/2014 00:00	08/07/2014 09:03	
GC-8082A PCB DILUTE-N-SHOOT	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=GC- 8082 8082 (08-08-14)
GC-8081B PEST Dilute-n-Shoot	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=GC- 8081 TCLnoPCB (08-08-14)
CORROSIVITY 9040B-9040C	08/21/2014 16:00	13	08/18/2014 00:00	08/07/2014 09:03	
6010C METALS	08/21/2014 16:00	13	02/02/2015 00:00	08/07/2014 09:03	
1408019-03 P001-PL0202-SW-01 [Soil] Sampled 08/06/2014 00:00 Eastern					
REACTIVE CYANIDE 9014	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	
REACTIVE SULFIDE 9034	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	
CORROSIVITY 9040B-9040C	08/21/2014 16:00	13	08/18/2014 00:00	08/07/2014 09:03	
Solids, Dry Weight	08/21/2014 16:00	13	02/02/2015 00:00	08/07/2014 09:03	
SVOC 8270D Dilute-n-shoot	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=SV- TCL4 (08-08-14)
VOA-8260B 5PPB	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=VOA- TCL4 (08-08-14)
GC-8082A PCB DILUTE-N-SHOOT	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=GC- 8082 8082 (08-08-14)
GC-8081B PEST Dilute-n-Shoot	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=GC- 8081 TCLnoPCB (08-08-14)
6010C METALS	08/21/2014 16:00	13	02/02/2015 00:00	08/07/2014 09:03	
7470A 7471B Mercury	08/21/2014 16:00	13	09/03/2014 00:00	08/07/2014 09:03	
IGNITABILITY 1010A	08/21/2014 16:00	13	09/03/2014 00:00	08/07/2014 09:03	

WORK ORDER

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1408019

COMPUCHEM

Client:	**WESTON SOLUTIONS**	**Project Manager:**	**Cathy Dover**
Project:	**RST2/RFP306/EP-S2-14-01/SITE ID:ZZ**	**Project Number:**	**RST2/RFP306/EP-S2-14-01/SITE ID:ZZ**
SDG:	**1408019** **CASE:**	**Status:**	**Batched**

Date Due:	08/21/2014 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	08/08/2014 09:04
Logged In By:	Cathy Dover	Date Logged In:	08/08/2014 08:56

J & B Flags?: **YES**	TICS?: **EPA-TICS**	Deliverable: **Level 4**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**		

LCS/LCSD*CAUTION WASTE DRUM SAMPLES*NOTE SAMPLE COMMENTS FOR INSTRUCTIONS(MSDS ATTACHED) *TCL4 VOA 5PPB + EPA-LIKE TICs(MAY NEED MED.LEVEL)*SVOC 8270D TCL4+EPA-LIKE TICs,TCL PEST 8081B & TCL PCB 8082A ARE ALL DILUTE-N-SHOOT*TAL METALS 6010C + Hg 7471B*RIC

Analysis	Due	TAT	Expires	Received	Comments
1408019-04 P001-DR0310-LW-01 [Soil] Sampled 08/06/2014 00:00 Eastern					**USE ONLY UPPER PHASE OF SAMPLE**
GC-8081B PEST Dilute-n-Shoot	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=GC- 8081 TCLnoPCB (08-08-14)
VOA-8260B 5PPB	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=VOA- TCL4 (08-08-14)
Solids, Dry Weight	08/21/2014 16:00	13	02/02/2015 00:00	08/07/2014 09:03	
IGNITABILITY 1010A	08/21/2014 16:00	13	09/03/2014 00:00	08/07/2014 09:03	
GC-8082A PCB DILUTE-N-SHOOT	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=GC- 8082 8082 (08-08-14)
SVOC 8270D Dilute-n-shoot	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=SV- TCL4 (08-08-14)
7470A 7471B Mercury	08/21/2014 16:00	13	09/03/2014 00:00	08/07/2014 09:03	
REACTIVE CYANIDE 9014	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	
6010C METALS	08/21/2014 16:00	13	02/02/2015 00:00	08/07/2014 09:03	
REACTIVE SULFIDE 9034	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	
CORROSIVITY 9040B-9040C	08/21/2014 16:00	13	08/18/2014 00:00	08/07/2014 09:03	
1408019-05 P001-DR0312-LW-01 [Soil] Sampled 08/06/2014 00:00 Eastern					**USE ONLY UPPER PHASE OF SAMPLE**
GC-8082A PCB DILUTE-N-SHOOT	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=GC- 8082 8082 (08-08-14)
7470A 7471B Mercury	08/21/2014 16:00	13	09/03/2014 00:00	08/07/2014 09:03	
GC-8081B PEST Dilute-n-Shoot	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=GC- 8081 TCLnoPCB (08-08-14)
VOA-8260B 5PPB	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=VOA- TCL4 (08-08-14)
REACTIVE SULFIDE 9034	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	
CORROSIVITY 9040B-9040C	08/21/2014 16:00	13	08/18/2014 00:00	08/07/2014 09:03	
REACTIVE CYANIDE 9014	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	
IGNITABILITY 1010A	08/21/2014 16:00	13	09/03/2014 00:00	08/07/2014 09:03	
6010C METALS	08/21/2014 16:00	13	02/02/2015 00:00	08/07/2014 09:03	
Solids, Dry Weight	08/21/2014 16:00	13	02/02/2015 00:00	08/07/2014 09:03	
SVOC 8270D Dilute-n-shoot	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=SV- TCL4 (08-08-14)

WORK ORDER

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1408019

COMPUCHEM

Client:	**WESTON SOLUTIONS**	**Project Manager:**	**Cathy Dover**
Project:	**RST2/RFP306/EP-S2-14-01/SITE ID:ZZ**	**Project Number:**	**RST2/RFP306/EP-S2-14-01/SITE ID:ZZ**
SDG:	**1408019** **CASE:**	**Status:**	**Batched**

Date Due:	08/21/2014 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	08/08/2014 09:04
Logged In By:	Cathy Dover	Date Logged In:	08/08/2014 08:56

J & B Flags?: **YES**	TICS?: **EPA-TICS**	Deliverable: **Level 4**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**		

LCS/LCSD*CAUTION WASTE DRUM SAMPLES*NOTE SAMPLE COMMENTS FOR INSTRUCTIONS(MSDS ATTACHED) *TCL4 VOA 5PPB + EPA-LIKE TICs(MAY NEED MED.LEVEL)*SVOC 8270D TCL4+EPA-LIKE TICs,TCL PEST 8081B & TCL PCB 8082A ARE ALL DILUTE-N-SHOOT*TAL METALS 6010C + Hg 7471B*RIC

Analysis	Due	TAT	Expires	Received	Comments
1408019-06 P001-DR0702-SW-01 [Soil] Sampled 08/06/2014 00:00 Eastern					**USE ONLY UPPER PHASE OF SAMPLE**
6010C METALS	08/21/2014 16:00	13	02/02/2015 00:00	08/07/2014 09:03	
REACTIVE CYANIDE 9014	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	
SVOC 8270D Dilute-n-shoot	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=SV- TCL4 (08-08-14)
GC-8082A PCB DILUTE-N-SHOOT	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=GC- 8082 8082 (08-08-14)
7470A 7471B Mercury	08/21/2014 16:00	13	09/03/2014 00:00	08/07/2014 09:03	
GC-8081B PEST Dilute-n-Shoot	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=GC- 8081 TCLnoPCB (08-08-14)
CORROSIVITY 9040B-9040C	08/21/2014 16:00	13	08/18/2014 00:00	08/07/2014 09:03	
REACTIVE SULFIDE 9034	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	
IGNITABILITY 1010A	08/21/2014 16:00	13	09/03/2014 00:00	08/07/2014 09:03	
VOA-8260B 5PPB	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=VOA- TCL4 (08-08-14)
Solids, Dry Weight	08/21/2014 16:00	13	02/02/2015 00:00	08/07/2014 09:03	
1408019-07 P001-DR0302-LW-01 [Soil] Sampled 08/06/2014 00:00 Eastern					**USE ONLY UPPER PHASE OF SAMPLE**
GC-8082A PCB DILUTE-N-SHOOT	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=GC- 8082 8082 (08-08-14)
SVOC 8270D Dilute-n-shoot	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=SV- TCL4 (08-08-14)
Solids, Dry Weight	08/21/2014 16:00	13	02/02/2015 00:00	08/07/2014 09:03	
IGNITABILITY 1010A	08/21/2014 16:00	13	09/03/2014 00:00	08/07/2014 09:03	
GC-8081B PEST Dilute-n-Shoot	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=GC- 8081 TCLnoPCB (08-08-14)
CORROSIVITY 9040B-9040C	08/21/2014 16:00	13	08/18/2014 00:00	08/07/2014 09:03	
REACTIVE SULFIDE 9034	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	
REACTIVE CYANIDE 9014	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	
7470A 7471B Mercury	08/21/2014 16:00	13	09/03/2014 00:00	08/07/2014 09:03	
6010C METALS	08/21/2014 16:00	13	02/02/2015 00:00	08/07/2014 09:03	
VOA-8260B 5PPB	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=VOA- TCL4 (08-08-14)

WORK ORDER

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1408019

COMPUCHEM

Client:	**WESTON SOLUTIONS**	**Project Manager:**	**Cathy Dover**
Project:	**RST2/RFP306/EP-S2-14-01/SITE ID:ZZ**	**Project Number:**	**RST2/RFP306/EP-S2-14-01/SITE ID:ZZ**
SDG:	**1408019** **CASE:**	**Status:**	**Batched**

Date Due:	08/21/2014 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	08/08/2014 09:04
Logged In By:	Cathy Dover	Date Logged In:	08/08/2014 08:56

J & B Flags?: **YES**	TICS?: **EPA-TICS**	Deliverable: **Level 4**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**		

LCS/LCSD*CAUTION WASTE DRUM SAMPLES*NOTE SAMPLE COMMENTS FOR INSTRUCTIONS(MSDS ATTACHED) *TCL4 VOA 5PPB + EPA-LIKE TICs(MAY NEED MED.LEVEL)*SVOC 8270D TCL4+EPA-LIKE TICs,TCL PEST 8081B & TCL PCB 8082A ARE ALL DILUTE-N-SHOOT*TAL METALS 6010C + Hg 7471B*RIC

Analysis	Due	TAT	Expires	Received	Comments
1408019-08 P001-DR0501-LW-01 [Soil] Sampled 08/06/2014 00:00 Eastern					**USE ONLY UPPER PHASE OF SAMPLE**
Solids, Dry Weight	08/21/2014 16:00	13	02/02/2015 00:00	08/07/2014 09:03	
SVOC 8270D Dilute-n-shoot	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=SV- TCL4 (08-08-14)
REACTIVE CYANIDE 9014	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	
IGNITABILITY 1010A	08/21/2014 16:00	13	09/03/2014 00:00	08/07/2014 09:03	
GC-8082A PCB DILUTE-N-SHOOT	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=GC- 8082 8082 (08-08-14)
GC-8081B PEST Dilute-n-Shoot	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=GC- 8081 TCLnoPCB (08-08-14)
VOA-8260B 5PPB	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	SubList=VOA- TCL4 (08-08-14)
REACTIVE SULFIDE 9034	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	
6010C METALS	08/21/2014 16:00	13	02/02/2015 00:00	08/07/2014 09:03	
7470A 7471B Mercury	08/21/2014 16:00	13	09/03/2014 00:00	08/07/2014 09:03	
CORROSIVITY 9040B-9040C	08/21/2014 16:00	13	08/18/2014 00:00	08/07/2014 09:03	
1408019-09 P001-DR0703-LW-01 [Soil] Sampled 08/06/2014 00:00 Eastern					**USE ONLY UPPER PHASE OF SAMPLE**
Solids, Dry Weight	08/21/2014 16:00	13	02/02/2015 00:00	08/07/2014 09:03	
CORROSIVITY 9040B-9040C	08/21/2014 16:00	13	08/18/2014 00:00	08/07/2014 09:03	
IGNITABILITY 1010A	08/21/2014 16:00	13	09/03/2014 00:00	08/07/2014 09:03	
REACTIVE CYANIDE 9014	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	
REACTIVE SULFIDE 9034	08/21/2014 16:00	13	08/20/2014 00:00	08/07/2014 09:03	

WORK ORDER

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COMPUCHEM

Client:	WESTON SOLUTIONS	Project Manager:	Cathy Dover
Project:	RST2/RFP306/EP-S2-14-01/SITE ID:ZZ	Project Number:	RST2/RFP306/EP-S2-14-01/SITE ID:ZZ
SDG:	1408019 CASE:	Status:	Batched

Date Due:	08/21/2014 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	08/08/2014 09:04
Logged In By:	Cathy Dover	Date Logged In:	08/08/2014 08:56

J & B Flags?: YES Metals ND to? MDL	TICS?: EPA-TICS Spike Level: FULL Spike	Deliverable: Level 4	EDD : 61) CUSTOM EXCEL

LCS/LCSD*CAUTION WASTE DRUM SAMPLES*NOTE SAMPLE COMMENTS FOR INSTRUCTIONS(MSDS ATTACHED) *TCL4 VOA 5PPB + EPA-LIKE TICs(MAY NEED MED.LEVEL)*SVOC 8270D TCL4+EPA-LIKE TICs,TCL PEST 8081B & TCL PCB 8082A ARE ALL DILUTE-N-SHOOT*TAL METALS 6010C + Hg 7471B*RIC

Analysis	Due	TAT	Expires	Received	Comments
1408019-10 P001-UST01-LW-01 [Soil] Sampled 08/07/2014 00:00 Eastern					
GC-8082A PCB DILUTE-N-SHOOT	08/21/2014 16:00	13	08/21/2014 00:00	08/07/2014 09:04	SubList=GC- 8082 8082 (08-08-14)
REACTIVE SULFIDE 9034	08/21/2014 16:00	13	08/21/2014 00:00	08/07/2014 09:04	
GC-8081B PEST Dilute-n-Shoot	08/21/2014 16:00	13	08/21/2014 00:00	08/07/2014 09:04	SubList=GC- 8081 TCLnoPCB (08-08-14)
6010C METALS	08/21/2014 16:00	13	02/03/2015 00:00	08/07/2014 09:04	
7470A 7471B Mercury	08/21/2014 16:00	13	09/04/2014 00:00	08/07/2014 09:04	
VOA-8260B 5PPB	08/21/2014 16:00	13	08/21/2014 00:00	08/07/2014 09:04	SubList=VOA- TCL4 (08-08-14)
SVOC 8270D Dilute-n-shoot	08/21/2014 16:00	13	08/21/2014 00:00	08/07/2014 09:04	SubList=SV- TCL4 (08-08-14)
Solids, Dry Weight	08/21/2014 16:00	13	02/03/2015 00:00	08/07/2014 09:04	
REACTIVE CYANIDE 9014	08/21/2014 16:00	13	08/21/2014 00:00	08/07/2014 09:04	
CORROSIVITY 9040B-9040C	08/21/2014 16:00	13	08/19/2014 00:00	08/07/2014 09:04	
IGNITABILITY 1010A	08/21/2014 16:00	13	09/04/2014 00:00	08/07/2014 09:04	

C. Sample Preparation and Analysis Holding Time Data

(HOLDING TIME SUMMARY)

Sample collection, receipt, preparation and analysis dates with method holding time requirements.

HOLDING TIME SUMMARY

EPA 6010C

Client: WESTON SOLUTIONS

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

SDG: 1408019

Sample Name	Date Collected	Date Received	Date Prepared	Date Analyzed	Days to Analysis	Max Days to Analysis*	Q
P001-COMP01-LW-01	08/06/14	08/07/14	08/11/14	08/11/14	5.7	180	
P001-DR0314-LW-01	08/06/14	08/07/14	08/11/14	08/11/14	5.7	180	
P001-PL0202-SW-01	08/06/14	08/07/14	08/11/14	08/11/14	5.7	180	
P001-DR0310-LW-01	08/06/14	08/07/14	08/11/14	08/11/14	5.7	180	
P001-DR0312-LW-01	08/06/14	08/07/14	08/11/14	08/11/14	5.7	180	
P001-DR0702-SW-01	08/06/14	08/07/14	08/11/14	08/11/14	5.7	180	
P001-DR0302-LW-01	08/06/14	08/07/14	08/11/14	08/11/14	5.7	180	
P001-DR0501-LW-01	08/06/14	08/07/14	08/11/14	08/11/14	5.8	180	
P001-UST01-LW-01	08/07/14	08/07/14	08/11/14	08/11/14	4.8	180	

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HOLDING TIME SUMMARY

EPA 7471B

Client: WESTON SOLUTIONS

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

SDG: 1408019

Sample Name	Date Collected	Date Received	Date Prepared	Date Analyzed	Days to Analysis	Max Days to Analysis*	Q
P001-COMP01-LW-01	08/06/14	08/07/14	08/11/14	08/11/14	5.8	28	
P001-DR0314-LW-01	08/06/14	08/07/14	08/11/14	08/11/14	5.8	28	
P001-PL0202-SW-01	08/06/14	08/07/14	08/11/14	08/11/14	5.8	28	
P001-DR0310-LW-01	08/06/14	08/07/14	08/11/14	08/11/14	5.8	28	
P001-DR0312-LW-01	08/06/14	08/07/14	08/11/14	08/11/14	5.8	28	
P001-DR0702-SW-01	08/06/14	08/07/14	08/11/14	08/11/14	5.8	28	
P001-DR0302-LW-01	08/06/14	08/07/14	08/11/14	08/11/14	5.8	28	
P001-DR0501-LW-01	08/06/14	08/07/14	08/11/14	08/11/14	5.8	28	
P001-UST01-LW-01	08/07/14	08/07/14	08/11/14	08/11/14	4.8	28	

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D. MDL

(MDL SUMMARY)

METHOD DETECTION AND REPORTING LIMITS

Laboratory: COMPUCHEM **SDG:** 1408019

Client: WESTON SOLUTIONS **Project:** RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil **Instrument:** P4

Analyte	MDL	RL	Units	Method
Aluminum	2.13	20.0	mg/kg	EPA 6010C
Antimony	0.446	3.00	mg/kg	EPA 6010C
Arsenic	0.164	1.00	mg/kg	EPA 6010C
Barium	1.19	20.0	mg/kg	EPA 6010C
Beryllium	0.029	0.500	mg/kg	EPA 6010C
Cadmium	0.065	0.500	mg/kg	EPA 6010C
Calcium	29.9	500	mg/kg	EPA 6010C
Chromium	0.119	1.00	mg/kg	EPA 6010C
Cobalt	0.296	2.00	mg/kg	EPA 6010C
Copper	0.115	0.500	mg/kg	EPA 6010C
Iron	1.78	20.0	mg/kg	EPA 6010C
Lead	0.182	1.00	mg/kg	EPA 6010C
Magnesium	26.3	500	mg/kg	EPA 6010C
Manganese	0.051	1.00	mg/kg	EPA 6010C
Nickel	0.094	1.00	mg/kg	EPA 6010C
Potassium	3.38	500	mg/kg	EPA 6010C
Selenium	0.205	1.00	mg/kg	EPA 6010C
Silver	0.054	0.500	mg/kg	EPA 6010C
Sodium	53.4	500	mg/kg	EPA 6010C
Thallium	0.642	3.00	mg/kg	EPA 6010C
Vanadium	0.142	2.00	mg/kg	EPA 6010C
Zinc	0.267	3.00	mg/kg	EPA 6010C

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METHOD DETECTION AND REPORTING LIMITS

Laboratory: COMPUCHEM **SDG:** 1408019

Client: WESTON SOLUTIONS **Project:** RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil **Instrument:** V4

Analyte	MDL	RL	Units	Method
Mercury	0.00379	0.0330	mg/kg	EPA 7471B

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E. Laboratory Control Sample Results

(LCS/LCS DUPLICATE RECOVERY)

LCS/LCSD recovery, relative percent difference and quality control acceptance criteria.

LCS / LCS DUPLICATE SUMMARY

EPA 6010C

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 4081101-BS1 Matrix: Soil Client ID: MLCSFD Batch: 4081101

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	Q	QC LIMITS REC.
Aluminum	8740	8410	96.3		54 - 146
Antimony	108.0	70.8	65.5		0 - 214
Arsenic	151.0	139	92.3		81 - 119
Barium	262.0	261	99.6		83 - 117
Beryllium	133.0	126	94.8		82 - 118
Cadmium	152.0	145	95.4		82 - 117
Calcium	6400	6390	99.8		83 - 117
Chromium	117.0	113	96.9		80 - 120
Cobalt	68.70	67.1	97.6		83 - 117
Copper	68.60	65.7	95.8		81 - 119
Iron	12300	10800	88.0		41 - 160
Lead	254.0	238	93.9		82 - 118
Magnesium	3600	3360	93.4		77 - 123
Manganese	563.0	545	96.8		82 - 118
Nickel	315.0	310	98.4		83 - 117
Potassium	3040	3020	99.3		71 - 129
Selenium	162.0	142	87.7		78 - 122
Silver	44.30	41.2	93.0		75 - 125
Sodium	746.0	860	115		72 - 128
Thallium	259.0	262	101		79 - 121
Vanadium	116.0	109	94.4		77 - 123
Zinc	306.0	298	97.3		81 - 120

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LCS / LCS DUPLICATE SUMMARY

EPA 6010C

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 4081101-BSD1 Matrix: Soil Client ID: MLCSDFD Batch: 4081101

ANALYTE	SPIKE ADDED (mg/kg wet)	LCSD CONCENTRATION (mg/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Aluminum	8740	8480	97.0	0.760	20		54 - 146
Antimony	108.0	71.1	65.8	0.430	20		0 - 214
Arsenic	151.0	140	92.5	0.214	20		81 - 119
Barium	262.0	266	102	1.87	20		83 - 117
Beryllium	133.0	127	95.4	0.582	20		82 - 118
Cadmium	152.0	145	95.3	0.0531	20		82 - 117
Calcium	6400	6690	104	4.60	20		83 - 117
Chromium	117.0	113	96.7	0.143	20		80 - 120
Cobalt	68.70	66.5	96.7	0.901	20		83 - 117
Copper	68.60	65.2	95.1	0.684	20		81 - 119
Iron	12300	10700	87.1	1.09	20		41 - 160
Lead	254.0	240	94.3	0.475	20		82 - 118
Magnesium	3600	3330	92.4	0.999	20		77 - 123
Manganese	563.0	553	98.2	1.45	20		82 - 118
Nickel	315.0	309	98.0	0.445	20		83 - 117
Potassium	3040	3020	99.5	0.147	20		71 - 129
Selenium	162.0	140	86.5	1.34	20		78 - 122
Silver	44.30	41.2	92.9	0.147	20		75 - 125
Sodium	746.0	855	115	0.638	20		72 - 128
Thallium	259.0	261	101	0.317	20		79 - 121
Vanadium	116.0	109	93.9	0.431	20		77 - 123
Zinc	306.0	302	98.6	1.40	20		81 - 120

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LCS / LCS DUPLICATE SUMMARY

EPA 7471B

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 4081102-BS1 Matrix: Soil Client ID: MLCSFE Batch: 4081102

ANALYTE	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC.	Q	QC LIMITS REC.
Mercury	5.760	5.35 D	93		72 - 128

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LCS / LCS DUPLICATE SUMMARY

EPA 7471B

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 4081102-BSD1 Matrix: Soil Client ID: MLCSDFE Batch: 4081102

ANALYTE	SPIKE ADDED (mg/kg wet)	LCSD CONCENTRATION (mg/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Mercury	5.760	5.52 D	96	3	20		72 - 128

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G. Serial Dilution Results

(SERIAL DILUTION)

SERIAL DILUTION

EPA 6010C

P001-COMP01-LW-01L

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 4H12001-SRD3 Matrix: Soil Lab Source ID: 1408019-01 Source Sample: P001-COMP01-LW-01

Sequence: 4H12001 Dilution: 5 Report to MDL: YES

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	RL	% Difference	Q	Method	QC Limits % Difference
Aluminum	184.72 J	1000.00 U	200			EPA 6010C	10
Antimony	13.81 J	150.00 U	30.0			EPA 6010C	10
Arsenic	3.56 J	50.00 U	10.0			EPA 6010C	10
Barium	200.00 U	1000.00 U	200			EPA 6010C	10
Beryllium	2.15 J	25.00 U	5.00			EPA 6010C	10
Cadmium	4.51 J	25.00 U	5.00			EPA 6010C	10
Calcium	5,000.00 U	25000.00 U	5000			EPA 6010C	10
Chromium	1.96 J	50.00 U	10.0			EPA 6010C	10
Cobalt	20.00 U	100.00 U	20.0			EPA 6010C	10
Copper	460.95	459.55	5.00	0.304		EPA 6010C	10
Iron	501.66	1000.00 U	200			EPA 6010C	10
Lead	12.50	50.00 U	10.0			EPA 6010C	10
Magnesium	5,000.00 U	25000.00 U	5000			EPA 6010C	10
Manganese	6.02 J	50.00 U	10.0			EPA 6010C	10
Nickel	2.05 J	50.00 U	10.0			EPA 6010C	10
Potassium	255.16 J	25000.00 U	5000			EPA 6010C	10
Selenium	4.32 J	50.00 U	10.0			EPA 6010C	10
Silver	5.00 U	25.00 U	5.00			EPA 6010C	10
Sodium	1437.00 J	25000.00 U	5000			EPA 6010C	10
Thallium	30.00 U	150.00 U	30.0			EPA 6010C	10
Vanadium	20.00 U	100.00 U	20.0			EPA 6010C	10
Zinc	780.96	753.30	30.0	3.54		EPA 6010C	10

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J. Batch Summary

(PREPARATION BATCH SUMMARY)

Sample names, cross-referenced with Lab Sample ID's, with sample preparation details.

PREPARATION BATCH SUMMARY

EPA 6010C

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Batch: 4081101 Matrix: Soil Preparation: EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (g)	FINAL VOL/WT (mL)
P001-COMP01-LW-01	1408019-01	08/11/14 11:00	1.01	100
P001-DR0314-LW-01	1408019-02	08/11/14 11:00	1.04	100
P001-PL0202-SW-01	1408019-03	08/11/14 11:00	1.05	100
P001-DR0310-LW-01	1408019-04	08/11/14 11:00	1.09	100
P001-DR0312-LW-01	1408019-05	08/11/14 11:00	1.09	100
P001-DR0702-SW-01	1408019-06	08/11/14 11:00	1.04	100
P001-DR0302-LW-01	1408019-07	08/11/14 11:00	1.02	100
P001-DR0501-LW-01	1408019-08	08/11/14 11:00	1.00	100
P001-UST01-LW-01	1408019-10	08/11/14 11:00	1.04	100
PBSFD	4081101-BLK1	08/11/14 11:00	1.00	100
MLCSFD	4081101-BS1	08/11/14 11:00	1.00	100
MLCSDFD	4081101-BSD1	08/11/14 11:00	1.00	100

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PREPARATION BATCH SUMMARY

EPA 7471B

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Batch: 4081102 Matrix: Soil Preparation: EPA 7471B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (g)	FINAL VOL/WT (mL)
P001-COMP01-LW-01	1408019-01	08/11/14 11:00	0.660	100
P001-DR0314-LW-01	1408019-02	08/11/14 11:00	0.690	100
P001-PL0202-SW-01	1408019-03	08/11/14 11:00	0.600	100
P001-DR0310-LW-01	1408019-04	08/11/14 11:00	0.680	100
P001-DR0312-LW-01	1408019-05	08/11/14 11:00	0.600	100
P001-DR0702-SW-01	1408019-06	08/11/14 11:00	0.630	100
P001-DR0302-LW-01	1408019-07	08/11/14 11:00	0.690	100
P001-DR0501-LW-01	1408019-08	08/11/14 11:00	0.630	100
P001-UST01-LW-01	1408019-10	08/11/14 11:00	0.610	100
PBSFE	4081102-BLK1	08/11/14 11:00	0.600	100
MLCSFE	4081102-BS1	08/11/14 11:00	0.600	100
MLCSDFE	4081102-BSD1	08/11/14 11:00	0.600	100

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K. Analysis Sequence Summary

(ANALYSIS SEQUENCE SUMMARY)

ANALYSIS SEQUENCE SUMMARY

EPA 7471B

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H11010 Calibration: 4081202 Instrument: V4

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
S0	4H11010-CAL1	4H11010_P-001	08/11/14 16:47:09
0.2	4H11010-CAL2	4H11010_P-002	08/11/14 16:49:51
S0.5	4H11010-CAL3	4H11010_P-003	08/11/14 16:53:15
S1.0	4H11010-CAL4	4H11010_P-004	08/11/14 16:55:45
S5.0	4H11010-CAL5	4H11010_P-005	08/11/14 16:58:15
S10.0	4H11010-CAL6	4H11010_P-006	08/11/14 17:00:56
ICV	4H11010-ICV1	4H11010_P-007	08/11/14 17:03:30
ICB	4H11010-ICB1	4H11010_P-008	08/11/14 17:05:59
CRI	4H11010-CRL1	4H11010_P-009	08/11/14 17:08:37
CCV	4H11010-CCV1	4H11010_P-010	08/11/14 17:11:10
CCB	4H11010-CCB1	4H11010_P-011	08/11/14 17:13:39
PBSFE	4081102-BLK1	4H11010_P-012	08/11/14 17:16:30
MLCSFE	4081102-BS1	4H11010_P-013	08/11/14 17:18:59
MLCSDFE	4081102-BSD1	4H11010_P-014	08/11/14 17:21:39
CCV	4H11010-CCV2	4H11010_P-022	08/11/14 17:42:14
CCB	4H11010-CCB2	4H11010_P-023	08/11/14 17:45:13
CCV	4H11010-CCV3	4H11010_P-028	08/11/14 17:59:14
CCB	4H11010-CCB3	4H11010_P-029	08/11/14 18:01:43
P001-COMP01-LW-01	1408019-01	4H11010_P-030	08/11/14 18:04:42
P001-DR0314-LW-01	1408019-02	4H11010_P-031	08/11/14 18:07:37
P001-PL0202-SW-01	1408019-03	4H11010_P-032	08/11/14 18:10:12
P001-DR0310-LW-01	1408019-04	4H11010_P-033	08/11/14 18:12:41
P001-DR0312-LW-01	1408019-05	4H11010_P-034	08/11/14 18:15:11
P001-DR0702-SW-01	1408019-06	4H11010_P-035	08/11/14 18:17:50
P001-DR0302-LW-01	1408019-07	4H11010_P-036	08/11/14 18:20:30
P001-DR0501-LW-01	1408019-08	4H11010_P-037	08/11/14 18:23:02
P001-UST01-LW-01	1408019-10	4H11010_P-038	08/11/14 18:26:35
CCV	4H11010-CCV4	4H11010_P-040	08/11/14 18:32:01
CCB	4H11010-CCB4	4H11010_P-041	08/11/14 18:34:33

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ANALYSIS SEQUENCE SUMMARY

EPA 6010C

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H12001 Calibration: UNASSIGI Instrument: P4

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
S0	4H12001-CAL1	4H12001_P-001	08/11/14 12:00:21
S RSTD-1	4H12001-CAL2	4H12001_P-002	08/11/14 12:07:34
S RSTD-3	4H12001-CAL4	4H12001_P-003	08/11/14 12:14:48
S RSTD-2	4H12001-CAL3	4H12001_P-004	08/11/14 12:20:28
S RSTD-4	4H12001-CAL5	4H12001_P-005	08/11/14 12:26:55
LLICV	4H12001-CRL1	4H12001_P-006	08/11/14 12:32:35
ICV	4H12001-ICV1	4H12001_P-007	08/11/14 12:39:48
ICB	4H12001-ICB1	4H12001_P-008	08/11/14 12:47:02
ICSA	4H12001-IFA1	4H12001_P-009	08/11/14 12:54:15
ICSAB	4H12001-IFB1	4H12001_P-010	08/11/14 13:01:27
LLCCV	4H12001-CRL2	4H12001_P-011	08/11/14 13:08:40
CCV1	4H12001-CCV1	4H12001_P-012	08/11/14 13:15:53
CCB1	4H12001-CCB1	4H12001_P-013	08/11/14 13:23:07
HRS DOD	4H12001-HCV1	4H12001_P-014	08/11/14 13:36:25
CCV1	4H12001-CCV2	4H12001_P-024	08/11/14 14:52:10
CCB1	4H12001-CCB2	4H12001_P-025	08/11/14 14:59:29
LLCCV	4H12001-CRL3	4H12001_P-034	08/11/14 16:07:24
CCV1	4H12001-CCV3	4H12001_P-035	08/11/14 16:14:38
CCB1	4H12001-CCB3	4H12001_P-036	08/11/14 16:21:57
PBSFD	4081101-BLK1	4H12001_P-037	08/11/14 16:31:43
MLCSFD	4081101-BS1	4H12001_P-038	08/11/14 16:38:56
MLCSDFD	4081101-BSD1	4H12001_P-039	08/11/14 16:46:09
P001-COMP01-LW-01	1408019-01	4H12001_P-040	08/11/14 16:53:22
P001-COMP01-LW-01L	4H12001-SRD3	4H12001_P-041	08/11/14 17:00:34
P001-DR0314-LW-01	1408019-02	4H12001_P-042	08/11/14 17:07:47
P001-PL0202-SW-01	1408019-03	4H12001_P-043	08/11/14 17:14:59
P001-DR0310-LW-01	1408019-04	4H12001_P-044	08/11/14 17:22:12
P001-DR0312-LW-01	1408019-05	4H12001_P-045	08/11/14 17:29:25
P001-DR0702-SW-01	1408019-06	4H12001_P-046	08/11/14 17:36:37

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ANALYSIS SEQUENCE SUMMARY

EPA 6010C

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H12001 Calibration: UNASSIGI Instrument: P4

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
CCV1	4H12001-CCV4	4H12001_P-047	08/11/14 17:43:51
CCB1	4H12001-CCB4	4H12001_P-048	08/11/14 17:51:10
P001-DR0302-LW-01	1408019-07	4H12001_P-049	08/11/14 17:58:28
P001-DR0501-LW-01	1408019-08	4H12001_P-050	08/11/14 18:05:41
P001-UST01-LW-01	1408019-10	4H12001_P-051	08/11/14 18:12:54
LLCCV	4H12001-CRL4	4H12001_P-058	08/11/14 19:03:57
CCV1	4H12001-CCV5	4H12001_P-059	08/11/14 19:11:10
CCB1	4H12001-CCB5	4H12001_P-060	08/11/14 19:18:29

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L. Target Element Results

(ANALYSIS DATA SHEETS)

ANALYSIS DATA SHEET

P001-COMP01-LW-01

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 1408019-01 % Solid: Matrix: Soil Sampled: 08/06/14 Received: 08/07/14

CAS NO.	Analyte	Conc. (mg/kg wet)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
7429-90-5	Aluminum	18.3	2.11	19.8	1	J	EPA 6010C	4H12001	8/11/14 16:53
7440-36-0	Antimony	1.37	0.443	2.97	1	J	EPA 6010C	4H12001	8/11/14 16:53
7440-38-2	Arsenic	0.352	0.163	0.990	1	J	EPA 6010C	4H12001	8/11/14 16:53
7440-39-3	Barium		1.18	19.8	1	U	EPA 6010C	4H12001	8/11/14 16:53
7440-41-7	Beryllium	0.213	0.0279	0.495	1	J	EPA 6010C	4H12001	8/11/14 16:53
7440-43-9	Cadmium	0.447	0.0636	0.495	1	J	EPA 6010C	4H12001	8/11/14 16:53
7440-70-2	Calcium		29.6	495	1	U	EPA 6010C	4H12001	8/11/14 16:53
7440-47-3	Chromium	0.194	0.118	0.990	1	J	EPA 6010C	4H12001	8/11/14 16:53
7440-48-4	Cobalt		0.293	1.98	1	U	EPA 6010C	4H12001	8/11/14 16:53
7440-50-8	Copper	45.6	0.114	0.495	1		EPA 6010C	4H12001	8/11/14 16:53
7439-89-6	Iron	49.7	1.76	19.8	1		EPA 6010C	4H12001	8/11/14 16:53
7439-92-1	Lead	1.24	0.180	0.990	1		EPA 6010C	4H12001	8/11/14 16:53
7439-95-4	Magnesium		26.0	495	1	U	EPA 6010C	4H12001	8/11/14 16:53
7439-96-5	Manganese	0.596	0.0500	0.990	1	J	EPA 6010C	4H12001	8/11/14 16:53
7439-97-6	Mercury	0.00697	0.00345	0.0300	1	J	EPA 7471B	4H11010	8/11/14 18:04
7440-02-0	Nickel	0.203	0.0928	0.990	1	J	EPA 6010C	4H12001	8/11/14 16:53
7440-09-7	Potassium	25.3	3.35	495	1	J	EPA 6010C	4H12001	8/11/14 16:53
7782-49-2	Selenium	0.427	0.203	0.990	1	J	EPA 6010C	4H12001	8/11/14 16:53
7440-22-4	Silver		0.0535	0.495	1	U	EPA 6010C	4H12001	8/11/14 16:53
7440-23-5	Sodium	142	52.9	495	1	J	EPA 6010C	4H12001	8/11/14 16:53
7440-28-0	Thallium		0.636	2.97	1	U	EPA 6010C	4H12001	8/11/14 16:53
7440-62-2	Vanadium		0.141	1.98	1	U	EPA 6010C	4H12001	8/11/14 16:53
7440-66-6	Zinc	77.3	0.264	2.97	1		EPA 6010C	4H12001	8/11/14 16:53

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ANALYSIS DATA SHEET

P001-DR0314-LW-01

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 1408019-02 % Solid: Matrix: Soil Sampled: 08/06/14 Received: 08/07/14

CAS NO.	Analyte	Conc. (mg/kg wet)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
7429-90-5	Aluminum	9.78	2.05	19.2	1	J	EPA 6010C	4H12001	8/11/14 17:07
7440-36-0	Antimony	1.71	0.430	2.88	1	J	EPA 6010C	4H12001	8/11/14 17:07
7440-38-2	Arsenic	0.676	0.159	0.962	1	J	EPA 6010C	4H12001	8/11/14 17:07
7440-39-3	Barium		1.14	19.2	1	U	EPA 6010C	4H12001	8/11/14 17:07
7440-41-7	Beryllium	0.133	0.0271	0.481	1	J	EPA 6010C	4H12001	8/11/14 17:07
7440-43-9	Cadmium		0.0617	0.481	1	U	EPA 6010C	4H12001	8/11/14 17:07
7440-70-2	Calcium		28.8	481	1	U	EPA 6010C	4H12001	8/11/14 17:07
7440-47-3	Chromium	0.143	0.114	0.962	1	J	EPA 6010C	4H12001	8/11/14 17:07
7440-48-4	Cobalt		0.285	1.92	1	U	EPA 6010C	4H12001	8/11/14 17:07
7440-50-8	Copper	4.20	0.111	0.481	1		EPA 6010C	4H12001	8/11/14 17:07
7439-89-6	Iron	17.4	1.71	19.2	1	J	EPA 6010C	4H12001	8/11/14 17:07
7439-92-1	Lead	2.51	0.175	0.962	1		EPA 6010C	4H12001	8/11/14 17:07
7439-95-4	Magnesium		25.3	481	1	U	EPA 6010C	4H12001	8/11/14 17:07
7439-96-5	Manganese	0.383	0.0486	0.962	1	J	EPA 6010C	4H12001	8/11/14 17:07
7439-97-6	Mercury		0.00330	0.0287	1	U	EPA 7471B	4H11010	8/11/14 18:07
7440-02-0	Nickel	3.20	0.0901	0.962	1		EPA 6010C	4H12001	8/11/14 17:07
7440-09-7	Potassium	2390	3.25	481	1		EPA 6010C	4H12001	8/11/14 17:07
7782-49-2	Selenium	0.579	0.197	0.962	1	J	EPA 6010C	4H12001	8/11/14 17:07
7440-22-4	Silver		0.0519	0.481	1	U	EPA 6010C	4H12001	8/11/14 17:07
7440-23-5	Sodium	2090	51.3	481	1		EPA 6010C	4H12001	8/11/14 17:07
7440-28-0	Thallium		0.617	2.88	1	U	EPA 6010C	4H12001	8/11/14 17:07
7440-62-2	Vanadium		0.137	1.92	1	U	EPA 6010C	4H12001	8/11/14 17:07
7440-66-6	Zinc	52.3	0.257	2.88	1		EPA 6010C	4H12001	8/11/14 17:07

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ANALYSIS DATA SHEET

P001-PL0202-SW-01

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 1408019-03 % Solid: Matrix: Soil Sampled: 08/06/14 Received: 08/07/14

CAS NO.	Analyte	Conc. (mg/kg wet)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
7429-90-5	Aluminum	5.84	2.03	19.0	1	J	EPA 6010C	4H12001	8/11/14 17:14
7440-36-0	Antimony	0.965	0.426	2.86	1	J	EPA 6010C	4H12001	8/11/14 17:14
7440-38-2	Arsenic	0.535	0.157	0.952	1	J	EPA 6010C	4H12001	8/11/14 17:14
7440-39-3	Barium		1.13	19.0	1	U	EPA 6010C	4H12001	8/11/14 17:14
7440-41-7	Beryllium	0.191	0.0269	0.476	1	J	EPA 6010C	4H12001	8/11/14 17:14
7440-43-9	Cadmium		0.0611	0.476	1	U	EPA 6010C	4H12001	8/11/14 17:14
7440-70-2	Calcium		28.5	476	1	U	EPA 6010C	4H12001	8/11/14 17:14
7440-47-3	Chromium	0.118	0.113	0.952	1	J	EPA 6010C	4H12001	8/11/14 17:14
7440-48-4	Cobalt		0.282	1.90	1	U	EPA 6010C	4H12001	8/11/14 17:14
7440-50-8	Copper		0.110	0.476	1	U	EPA 6010C	4H12001	8/11/14 17:14
7439-89-6	Iron	4.20	1.70	19.0	1	J	EPA 6010C	4H12001	8/11/14 17:14
7439-92-1	Lead	0.350	0.173	0.952	1	J	EPA 6010C	4H12001	8/11/14 17:14
7439-95-4	Magnesium		25.0	476	1	U	EPA 6010C	4H12001	8/11/14 17:14
7439-96-5	Manganese	0.0498	0.0481	0.952	1	J	EPA 6010C	4H12001	8/11/14 17:14
7439-97-6	Mercury		0.00379	0.0330	1	U	EPA 7471B	4H11010	8/11/14 18:10
7440-02-0	Nickel		0.0892	0.952	1	U	EPA 6010C	4H12001	8/11/14 17:14
7440-09-7	Potassium	429	3.22	476	1	J	EPA 6010C	4H12001	8/11/14 17:14
7782-49-2	Selenium	0.437	0.195	0.952	1	J	EPA 6010C	4H12001	8/11/14 17:14
7440-22-4	Silver		0.0514	0.476	1	U	EPA 6010C	4H12001	8/11/14 17:14
7440-23-5	Sodium	698	50.9	476	1		EPA 6010C	4H12001	8/11/14 17:14
7440-28-0	Thallium		0.611	2.86	1	U	EPA 6010C	4H12001	8/11/14 17:14
7440-62-2	Vanadium		0.135	1.90	1	U	EPA 6010C	4H12001	8/11/14 17:14
7440-66-6	Zinc	1.03	0.254	2.86	1	J	EPA 6010C	4H12001	8/11/14 17:14

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ANALYSIS DATA SHEET

P001-DR0310-LW-01

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 1408019-04 % Solid: Matrix: Soil Sampled: 08/06/14 Received: 08/07/14

CAS NO.	Analyte	Conc. (mg/kg wet)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
7429-90-5	Aluminum	5.85	1.95	18.3	1	J	EPA 6010C	4H12001	8/11/14 17:22
7440-36-0	Antimony	0.579	0.410	2.75	1	J	EPA 6010C	4H12001	8/11/14 17:22
7440-38-2	Arsenic	1.10	0.151	0.917	1		EPA 6010C	4H12001	8/11/14 17:22
7440-39-3	Barium	1.23	1.09	18.3	1	J	EPA 6010C	4H12001	8/11/14 17:22
7440-41-7	Beryllium	0.261	0.0259	0.459	1	J	EPA 6010C	4H12001	8/11/14 17:22
7440-43-9	Cadmium		0.0589	0.459	1	U	EPA 6010C	4H12001	8/11/14 17:22
7440-70-2	Calcium	38.3	27.4	459	1	J	EPA 6010C	4H12001	8/11/14 17:22
7440-47-3	Chromium	0.381	0.109	0.917	1	J	EPA 6010C	4H12001	8/11/14 17:22
7440-48-4	Cobalt		0.272	1.83	1	U	EPA 6010C	4H12001	8/11/14 17:22
7440-50-8	Copper	3.96	0.106	0.459	1		EPA 6010C	4H12001	8/11/14 17:22
7439-89-6	Iron	81.7	1.63	18.3	1		EPA 6010C	4H12001	8/11/14 17:22
7439-92-1	Lead	0.831	0.167	0.917	1	J	EPA 6010C	4H12001	8/11/14 17:22
7439-95-4	Magnesium		24.1	459	1	U	EPA 6010C	4H12001	8/11/14 17:22
7439-96-5	Manganese	1.10	0.0463	0.917	1		EPA 6010C	4H12001	8/11/14 17:22
7439-97-6	Mercury		0.00334	0.0291	1	U	EPA 7471B	4H11010	8/11/14 18:12
7440-02-0	Nickel	0.470	0.0860	0.917	1	J	EPA 6010C	4H12001	8/11/14 17:22
7440-09-7	Potassium	23.2	3.10	459	1	J	EPA 6010C	4H12001	8/11/14 17:22
7782-49-2	Selenium	1.42	0.188	0.917	1		EPA 6010C	4H12001	8/11/14 17:22
7440-22-4	Silver		0.0495	0.459	1	U	EPA 6010C	4H12001	8/11/14 17:22
7440-23-5	Sodium	138	49.0	459	1	J	EPA 6010C	4H12001	8/11/14 17:22
7440-28-0	Thallium		0.589	2.75	1	U	EPA 6010C	4H12001	8/11/14 17:22
7440-62-2	Vanadium		0.130	1.83	1	U	EPA 6010C	4H12001	8/11/14 17:22
7440-66-6	Zinc	6.26	0.245	2.75	1		EPA 6010C	4H12001	8/11/14 17:22

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ANALYSIS DATA SHEET

P001-DR0312-LW-01

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 1408019-05 % Solid: Matrix: Soil Sampled: 08/06/14 Received: 08/07/14

CAS NO.	Analyte	Conc. (mg/kg wet)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
7429-90-5	Aluminum	20.3	1.95	18.3	1		EPA 6010C	4H12001	8/11/14 17:29
7440-36-0	Antimony	1.31	0.410	2.75	1	J	EPA 6010C	4H12001	8/11/14 17:29
7440-38-2	Arsenic	0.567	0.151	0.917	1	J	EPA 6010C	4H12001	8/11/14 17:29
7440-39-3	Barium	2.22	1.09	18.3	1	J	EPA 6010C	4H12001	8/11/14 17:29
7440-41-7	Beryllium	0.214	0.0259	0.459	1	J	EPA 6010C	4H12001	8/11/14 17:29
7440-43-9	Cadmium	0.184	0.0589	0.459	1	J	EPA 6010C	4H12001	8/11/14 17:29
7440-70-2	Calcium	833	27.4	459	1		EPA 6010C	4H12001	8/11/14 17:29
7440-47-3	Chromium	2.44	0.109	0.917	1		EPA 6010C	4H12001	8/11/14 17:29
7440-48-4	Cobalt		0.272	1.83	1	U	EPA 6010C	4H12001	8/11/14 17:29
7440-50-8	Copper	45.7	0.106	0.459	1		EPA 6010C	4H12001	8/11/14 17:29
7439-89-6	Iron	171	1.63	18.3	1		EPA 6010C	4H12001	8/11/14 17:29
7439-92-1	Lead	41.9	0.167	0.917	1		EPA 6010C	4H12001	8/11/14 17:29
7439-95-4	Magnesium	246	24.1	459	1	J	EPA 6010C	4H12001	8/11/14 17:29
7439-96-5	Manganese	2.35	0.0463	0.917	1		EPA 6010C	4H12001	8/11/14 17:29
7439-97-6	Mercury		0.00379	0.0330	1	U	EPA 7471B	4H11010	8/11/14 18:15
7440-02-0	Nickel	0.998	0.0860	0.917	1		EPA 6010C	4H12001	8/11/14 17:29
7440-09-7	Potassium	47.4	3.10	459	1	J	EPA 6010C	4H12001	8/11/14 17:29
7782-49-2	Selenium	0.746	0.188	0.917	1	J	EPA 6010C	4H12001	8/11/14 17:29
7440-22-4	Silver		0.0495	0.459	1	U	EPA 6010C	4H12001	8/11/14 17:29
7440-23-5	Sodium	258	49.0	459	1	J	EPA 6010C	4H12001	8/11/14 17:29
7440-28-0	Thallium		0.589	2.75	1	U	EPA 6010C	4H12001	8/11/14 17:29
7440-62-2	Vanadium	0.151	0.130	1.83	1	J	EPA 6010C	4H12001	8/11/14 17:29
7440-66-6	Zinc	675	0.245	2.75	1		EPA 6010C	4H12001	8/11/14 17:29

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ANALYSIS DATA SHEET

P001-DR0702-SW-01

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 1408019-06 % Solid: Matrix: Soil Sampled: 08/06/14 Received: 08/07/14

CAS NO.	Analyte	Conc. (mg/kg wet)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
7429-90-5	Aluminum	81.0	2.05	19.2	1		EPA 6010C	4H12001	8/11/14 17:36
7440-36-0	Antimony	1.11	0.430	2.88	1	J	EPA 6010C	4H12001	8/11/14 17:36
7440-38-2	Arsenic	0.437	0.159	0.962	1	J	EPA 6010C	4H12001	8/11/14 17:36
7440-39-3	Barium	40.1	1.14	19.2	1		EPA 6010C	4H12001	8/11/14 17:36
7440-41-7	Beryllium	0.311	0.0271	0.481	1	J	EPA 6010C	4H12001	8/11/14 17:36
7440-43-9	Cadmium		0.0617	0.481	1	U	EPA 6010C	4H12001	8/11/14 17:36
7440-70-2	Calcium	1540	28.8	481	1		EPA 6010C	4H12001	8/11/14 17:36
7440-47-3	Chromium	10.5	0.114	0.962	1		EPA 6010C	4H12001	8/11/14 17:36
7440-48-4	Cobalt	0.627	0.285	1.92	1	J	EPA 6010C	4H12001	8/11/14 17:36
7440-50-8	Copper	2.23	0.111	0.481	1		EPA 6010C	4H12001	8/11/14 17:36
7439-89-6	Iron	2460	1.71	19.2	1		EPA 6010C	4H12001	8/11/14 17:36
7439-92-1	Lead	0.672	0.175	0.962	1	J	EPA 6010C	4H12001	8/11/14 17:36
7439-95-4	Magnesium	6940	25.3	481	1		EPA 6010C	4H12001	8/11/14 17:36
7439-96-5	Manganese	27.1	0.0486	0.962	1		EPA 6010C	4H12001	8/11/14 17:36
7439-97-6	Mercury		0.00361	0.0314	1	U	EPA 7471B	4H11010	8/11/14 18:17
7440-02-0	Nickel	47.8	0.0901	0.962	1		EPA 6010C	4H12001	8/11/14 17:36
7440-09-7	Potassium	41.1	3.25	481	1	J	EPA 6010C	4H12001	8/11/14 17:36
7782-49-2	Selenium	0.487	0.197	0.962	1	J	EPA 6010C	4H12001	8/11/14 17:36
7440-22-4	Silver		0.0519	0.481	1	U	EPA 6010C	4H12001	8/11/14 17:36
7440-23-5	Sodium	101	51.3	481	1	J	EPA 6010C	4H12001	8/11/14 17:36
7440-28-0	Thallium		0.617	2.88	1	U	EPA 6010C	4H12001	8/11/14 17:36
7440-62-2	Vanadium	29.8	0.137	1.92	1		EPA 6010C	4H12001	8/11/14 17:36
7440-66-6	Zinc	32.5	0.257	2.88	1		EPA 6010C	4H12001	8/11/14 17:36

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ANALYSIS DATA SHEET

P001-DR0302-LW-01

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 1408019-07 % Solid: Matrix: Soil Sampled: 08/06/14 Received: 08/07/14

CAS NO.	Analyte	Conc. (mg/kg wet)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
7429-90-5	Aluminum	8.58	2.09	19.6	1	J	EPA 6010C	4H12001	8/11/14 17:58
7440-36-0	Antimony	0.815	0.438	2.94	1	J	EPA 6010C	4H12001	8/11/14 17:58
7440-38-2	Arsenic	0.689	0.162	0.980	1	J	EPA 6010C	4H12001	8/11/14 17:58
7440-39-3	Barium		1.17	19.6	1	U	EPA 6010C	4H12001	8/11/14 17:58
7440-41-7	Beryllium	0.374	0.0276	0.490	1	J	EPA 6010C	4H12001	8/11/14 17:58
7440-43-9	Cadmium		0.0629	0.490	1	U	EPA 6010C	4H12001	8/11/14 17:58
7440-70-2	Calcium		29.3	490	1	U	EPA 6010C	4H12001	8/11/14 17:58
7440-47-3	Chromium	0.181	0.117	0.980	1	J	EPA 6010C	4H12001	8/11/14 17:58
7440-48-4	Cobalt		0.290	1.96	1	U	EPA 6010C	4H12001	8/11/14 17:58
7440-50-8	Copper	13.1	0.113	0.490	1		EPA 6010C	4H12001	8/11/14 17:58
7439-89-6	Iron	10.2	1.75	19.6	1	J	EPA 6010C	4H12001	8/11/14 17:58
7439-92-1	Lead	2.85	0.178	0.980	1		EPA 6010C	4H12001	8/11/14 17:58
7439-95-4	Magnesium		25.8	490	1	U	EPA 6010C	4H12001	8/11/14 17:58
7439-96-5	Manganese	0.120	0.0495	0.980	1	J	EPA 6010C	4H12001	8/11/14 17:58
7439-97-6	Mercury		0.00330	0.0287	1	U	EPA 7471B	4H11010	8/11/14 18:20
7440-02-0	Nickel	0.610	0.0919	0.980	1	J	EPA 6010C	4H12001	8/11/14 17:58
7440-09-7	Potassium	6.89	3.31	490	1	J	EPA 6010C	4H12001	8/11/14 17:58
7782-49-2	Selenium	0.991	0.201	0.980	1		EPA 6010C	4H12001	8/11/14 17:58
7440-22-4	Silver		0.0529	0.490	1	U	EPA 6010C	4H12001	8/11/14 17:58
7440-23-5	Sodium		52.4	490	1	U	EPA 6010C	4H12001	8/11/14 17:58
7440-28-0	Thallium		0.629	2.94	1	U	EPA 6010C	4H12001	8/11/14 17:58
7440-62-2	Vanadium		0.139	1.96	1	U	EPA 6010C	4H12001	8/11/14 17:58
7440-66-6	Zinc	31.6	0.262	2.94	1		EPA 6010C	4H12001	8/11/14 17:58

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ANALYSIS DATA SHEET

P001-DR0501-LW-01

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 1408019-08 % Solid: Matrix: Soil Sampled: 08/06/14 Received: 08/07/14

CAS NO.	Analyte	Conc. (mg/kg wet)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
7429-90-5	Aluminum	15.5	2.13	20.0	1	J	EPA 6010C	4H12001	8/11/14 18:05
7440-36-0	Antimony	1.48	0.447	3.00	1	J	EPA 6010C	4H12001	8/11/14 18:05
7440-38-2	Arsenic	0.683	0.165	1.00	1	J	EPA 6010C	4H12001	8/11/14 18:05
7440-39-3	Barium	10.3	1.19	20.0	1	J	EPA 6010C	4H12001	8/11/14 18:05
7440-41-7	Beryllium	0.330	0.0282	0.500	1	J	EPA 6010C	4H12001	8/11/14 18:05
7440-43-9	Cadmium	0.0645	0.0642	0.500	1	J	EPA 6010C	4H12001	8/11/14 18:05
7440-70-2	Calcium	726	29.9	500	1		EPA 6010C	4H12001	8/11/14 18:05
7440-47-3	Chromium	1.19	0.119	1.00	1		EPA 6010C	4H12001	8/11/14 18:05
7440-48-4	Cobalt		0.296	2.00	1	U	EPA 6010C	4H12001	8/11/14 18:05
7440-50-8	Copper	23.4	0.115	0.500	1		EPA 6010C	4H12001	8/11/14 18:05
7439-89-6	Iron	74.5	1.78	20.0	1		EPA 6010C	4H12001	8/11/14 18:05
7439-92-1	Lead	10.2	0.182	1.00	1		EPA 6010C	4H12001	8/11/14 18:05
7439-95-4	Magnesium	245	26.3	500	1	J	EPA 6010C	4H12001	8/11/14 18:05
7439-96-5	Manganese	1.21	0.0505	1.00	1		EPA 6010C	4H12001	8/11/14 18:05
7439-97-6	Mercury		0.00361	0.0314	1	U	EPA 7471B	4H11010	8/11/14 18:23
7440-02-0	Nickel	0.499	0.0937	1.00	1	J	EPA 6010C	4H12001	8/11/14 18:05
7440-09-7	Potassium	98.5	3.38	500	1	J	EPA 6010C	4H12001	8/11/14 18:05
7782-49-2	Selenium	0.831	0.205	1.00	1	J	EPA 6010C	4H12001	8/11/14 18:05
7440-22-4	Silver		0.0540	0.500	1	U	EPA 6010C	4H12001	8/11/14 18:05
7440-23-5	Sodium	134	53.4	500	1	J	EPA 6010C	4H12001	8/11/14 18:05
7440-28-0	Thallium		0.642	3.00	1	U	EPA 6010C	4H12001	8/11/14 18:05
7440-62-2	Vanadium		0.142	2.00	1	U	EPA 6010C	4H12001	8/11/14 18:05
7440-66-6	Zinc	474	0.267	3.00	1		EPA 6010C	4H12001	8/11/14 18:05

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ANALYSIS DATA SHEET

P001-UST01-LW-01

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 1408019-10 % Solid: Matrix: Soil Sampled: 08/07/14 Received: 08/07/14

CAS NO.	Analyte	Conc. (mg/kg wet)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
7429-90-5	Aluminum	9.33	2.05	19.2	1	J	EPA 6010C	4H12001	8/11/14 18:12
7440-36-0	Antimony	1.15	0.430	2.88	1	J	EPA 6010C	4H12001	8/11/14 18:12
7440-38-2	Arsenic		0.159	0.962	1	U	EPA 6010C	4H12001	8/11/14 18:12
7440-39-3	Barium		1.14	19.2	1	U	EPA 6010C	4H12001	8/11/14 18:12
7440-41-7	Beryllium	0.231	0.0271	0.481	1	J	EPA 6010C	4H12001	8/11/14 18:12
7440-43-9	Cadmium		0.0617	0.481	1	U	EPA 6010C	4H12001	8/11/14 18:12
7440-70-2	Calcium	48.6	28.8	481	1	J	EPA 6010C	4H12001	8/11/14 18:12
7440-47-3	Chromium		0.114	0.962	1	U	EPA 6010C	4H12001	8/11/14 18:12
7440-48-4	Cobalt		0.285	1.92	1	U	EPA 6010C	4H12001	8/11/14 18:12
7440-50-8	Copper		0.111	0.481	1	U	EPA 6010C	4H12001	8/11/14 18:12
7439-89-6	Iron	7.31	1.71	19.2	1	J	EPA 6010C	4H12001	8/11/14 18:12
7439-92-1	Lead	0.515	0.175	0.962	1	J	EPA 6010C	4H12001	8/11/14 18:12
7439-95-4	Magnesium		25.3	481	1	U	EPA 6010C	4H12001	8/11/14 18:12
7439-96-5	Manganese	14.5	0.0486	0.962	1		EPA 6010C	4H12001	8/11/14 18:12
7439-97-6	Mercury		0.00373	0.0325	1	U	EPA 7471B	4H11010	8/11/14 18:26
7440-02-0	Nickel	0.0983	0.0901	0.962	1	J	EPA 6010C	4H12001	8/11/14 18:12
7440-09-7	Potassium	11.2	3.25	481	1	J	EPA 6010C	4H12001	8/11/14 18:12
7782-49-2	Selenium	0.469	0.197	0.962	1	J	EPA 6010C	4H12001	8/11/14 18:12
7440-22-4	Silver		0.0519	0.481	1	U	EPA 6010C	4H12001	8/11/14 18:12
7440-23-5	Sodium	64.5	51.3	481	1	J	EPA 6010C	4H12001	8/11/14 18:12
7440-28-0	Thallium		0.617	2.88	1	U	EPA 6010C	4H12001	8/11/14 18:12
7440-62-2	Vanadium		0.137	1.92	1	U	EPA 6010C	4H12001	8/11/14 18:12
7440-66-6	Zinc	33.5	0.257	2.88	1		EPA 6010C	4H12001	8/11/14 18:12

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M. Low Level Initial and Continuing Calibration Check Results

(LOW LEVEL INITIAL AND CONTINUING CALIBRATION CHECK)

LOW LEVEL INITIAL AND CONTINUING CALIBRATION CHECK

EPA 7471B

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H11010 Instrument ID: V4

Client ID	Lab Sample ID	Analyte	True	Found	%R	Units	Q	QC Limts
CRI	4H11010-CRL1	Mercury	0.2000	0.186	93	ug/L	J	70 - 130

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LOW LEVEL INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010C

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H12001 Instrument ID: P4

Client ID	Lab Sample ID	Analyte	True	Found	%R	Units	Q	QC Limts
LLICV	4H12001-CRL1	Aluminum	200.0	220	110	ug/L		70 - 130
LLICV	4H12001-CRL1	Antimony	30.00	33.2	111	ug/L		70 - 130
LLICV	4H12001-CRL1	Arsenic	10.00	9.82	98	ug/L	J	70 - 130
LLICV	4H12001-CRL1	Barium	200.0	202	101	ug/L		70 - 130
LLICV	4H12001-CRL1	Beryllium	5.000	5.08	102	ug/L		70 - 130
LLICV	4H12001-CRL1	Cadmium	5.000	4.63	93	ug/L	J	70 - 130
LLICV	4H12001-CRL1	Calcium	5000	5120	102	ug/L		70 - 130
LLICV	4H12001-CRL1	Chromium	10.00	9.22	92	ug/L	J	70 - 130
LLICV	4H12001-CRL1	Cobalt	20.00	19.0	95	ug/L	J	70 - 130
LLICV	4H12001-CRL1	Copper	5.000	5.12	102	ug/L		70 - 130
LLICV	4H12001-CRL1	Iron	200.0	170	85	ug/L	J	70 - 130
LLICV	4H12001-CRL1	Lead	10.00	9.14	91	ug/L	J	70 - 130
LLICV	4H12001-CRL1	Magnesium	5000	5060	101	ug/L		70 - 130
LLICV	4H12001-CRL1	Manganese	10.00	9.97	100	ug/L	J	70 - 130
LLICV	4H12001-CRL1	Nickel	10.00	10.2	102	ug/L		70 - 130
LLICV	4H12001-CRL1	Potassium	5000	5280	106	ug/L		70 - 130
LLICV	4H12001-CRL1	Selenium	10.00	9.49	95	ug/L	J	70 - 130
LLICV	4H12001-CRL1	Silver	5.000	5.26	105	ug/L		70 - 130
LLICV	4H12001-CRL1	Sodium	5000	5050	101	ug/L		70 - 130
LLICV	4H12001-CRL1	Thallium	30.00	28.2	94	ug/L	J	70 - 130
LLICV	4H12001-CRL1	Vanadium	20.00	20.3	101	ug/L		70 - 130
LLICV	4H12001-CRL1	Zinc	30.00	28.8	96	ug/L	J	70 - 130
LLCCV	4H12001-CRL2	Aluminum	200.0	234	117	ug/L		70 - 130
LLCCV	4H12001-CRL2	Antimony	30.00	29.5	98	ug/L	J	70 - 130
LLCCV	4H12001-CRL2	Arsenic	10.00	11.1	111	ug/L		70 - 130
LLCCV	4H12001-CRL2	Barium	200.0	198	99	ug/L	J	70 - 130
LLCCV	4H12001-CRL2	Beryllium	5.000	4.36	87	ug/L	J	70 - 130
LLCCV	4H12001-CRL2	Cadmium	5.000	5.34	107	ug/L		70 - 130
LLCCV	4H12001-CRL2	Calcium	5000	5050	101	ug/L		70 - 130
LLCCV	4H12001-CRL2	Chromium	10.00	9.86	99	ug/L	J	70 - 130
LLCCV	4H12001-CRL2	Cobalt	20.00	21.6	108	ug/L		70 - 130
LLCCV	4H12001-CRL2	Copper	5.000	5.46	109	ug/L		70 - 130
LLCCV	4H12001-CRL2	Iron	200.0	182	91	ug/L	J	70 - 130
LLCCV	4H12001-CRL2	Lead	10.00	8.89	89	ug/L	J	70 - 130
LLCCV	4H12001-CRL2	Magnesium	5000	5030	101	ug/L		70 - 130
LLCCV	4H12001-CRL2	Manganese	10.00	9.89	99	ug/L	J	70 - 130

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LOW LEVEL INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010C

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H12001 Instrument ID: P4

Client ID	Lab Sample ID	Analyte	True	Found	%R	Units	Q	QC Limts
LLCCV	4H12001-CRL2	Nickel	10.00	10.1	101	ug/L		70 - 130
LLCCV	4H12001-CRL2	Potassium	5000	5180	104	ug/L		70 - 130
LLCCV	4H12001-CRL2	Selenium	10.00	9.85	99	ug/L	J	70 - 130
LLCCV	4H12001-CRL2	Silver	5.000	5.30	106	ug/L		70 - 130
LLCCV	4H12001-CRL2	Sodium	5000	5070	101	ug/L		70 - 130
LLCCV	4H12001-CRL2	Thallium	30.00	27.4	91	ug/L	J	70 - 130
LLCCV	4H12001-CRL2	Vanadium	20.00	20.5	102	ug/L		70 - 130
LLCCV	4H12001-CRL2	Zinc	30.00	29.5	99	ug/L	J	70 - 130
LLCCV	4H12001-CRL3	Aluminum	200.0	244	122	ug/L		70 - 130
LLCCV	4H12001-CRL3	Antimony	30.00	31.1	104	ug/L		70 - 130
LLCCV	4H12001-CRL3	Arsenic	10.00	10.1	101	ug/L		70 - 130
LLCCV	4H12001-CRL3	Barium	200.0	196	98	ug/L	J	70 - 130
LLCCV	4H12001-CRL3	Beryllium	5.000	4.39	88	ug/L	J	70 - 130
LLCCV	4H12001-CRL3	Cadmium	5.000	4.73	95	ug/L	J	70 - 130
LLCCV	4H12001-CRL3	Calcium	5000	4890	98	ug/L	J	70 - 130
LLCCV	4H12001-CRL3	Chromium	10.00	8.95	90	ug/L	J	70 - 130
LLCCV	4H12001-CRL3	Cobalt	20.00	17.3	86	ug/L	J	70 - 130
LLCCV	4H12001-CRL3	Copper	5.000	3.59	72	ug/L	J	70 - 130
LLCCV	4H12001-CRL3	Iron	200.0	166	83	ug/L	J	70 - 130
LLCCV	4H12001-CRL3	Lead	10.00	7.08	71	ug/L	J	70 - 130
LLCCV	4H12001-CRL3	Magnesium	5000	4920	98	ug/L	J	70 - 130
LLCCV	4H12001-CRL3	Manganese	10.00	9.86	99	ug/L	J	70 - 130
LLCCV	4H12001-CRL3	Nickel	10.00	9.88	99	ug/L	J	70 - 130
LLCCV	4H12001-CRL3	Potassium	5000	5400	108	ug/L		70 - 130
LLCCV	4H12001-CRL3	Selenium	10.00	9.68	97	ug/L	J	70 - 130
LLCCV	4H12001-CRL3	Silver	5.000	4.50	90	ug/L	J	70 - 130
LLCCV	4H12001-CRL3	Sodium	5000	5180	104	ug/L		70 - 130
LLCCV	4H12001-CRL3	Thallium	30.00	31.6	105	ug/L		70 - 130
LLCCV	4H12001-CRL3	Vanadium	20.00	19.1	96	ug/L	J	70 - 130
LLCCV	4H12001-CRL3	Zinc	30.00	28.5	95	ug/L	J	70 - 130
LLCCV	4H12001-CRL4	Aluminum	200.0	215	107	ug/L		70 - 130
LLCCV	4H12001-CRL4	Antimony	30.00	31.5	105	ug/L		70 - 130
LLCCV	4H12001-CRL4	Arsenic	10.00	9.71	97	ug/L	J	70 - 130
LLCCV	4H12001-CRL4	Barium	200.0	198	99	ug/L	J	70 - 130
LLCCV	4H12001-CRL4	Beryllium	5.000	3.94	79	ug/L	J	70 - 130
LLCCV	4H12001-CRL4	Cadmium	5.000	3.92	78	ug/L	J	70 - 130

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LOW LEVEL INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010C

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H12001 Instrument ID: P4

Client ID	Lab Sample ID	Analyte	True	Found	%R	Units	Q	QC Limts
LLCCV	4H12001-CRL4	Calcium	5000	4760	95	ug/L	J	70 - 130
LLCCV	4H12001-CRL4	Chromium	10.00	9.21	92	ug/L	J	70 - 130
LLCCV	4H12001-CRL4	Cobalt	20.00	14.8	74	ug/L	J	70 - 130
LLCCV	4H12001-CRL4	Copper	5.000	3.65	73	ug/L	J	70 - 130
LLCCV	4H12001-CRL4	Iron	200.0	171	86	ug/L	J	70 - 130
LLCCV	4H12001-CRL4	Lead	10.00	7.03	70	ug/L	J	70 - 130
LLCCV	4H12001-CRL4	Magnesium	5000	4600	92	ug/L	J	70 - 130
LLCCV	4H12001-CRL4	Manganese	10.00	9.86	99	ug/L	J	70 - 130
LLCCV	4H12001-CRL4	Nickel	10.00	10.4	104	ug/L		70 - 130
LLCCV	4H12001-CRL4	Potassium	5000	5040	101	ug/L		70 - 130
LLCCV	4H12001-CRL4	Selenium	10.00	9.77	98	ug/L	J	70 - 130
LLCCV	4H12001-CRL4	Silver	5.000	4.78	96	ug/L	J	70 - 130
LLCCV	4H12001-CRL4	Sodium	5000	4460	89	ug/L	J	70 - 130
LLCCV	4H12001-CRL4	Thallium	30.00	33.1	110	ug/L		70 - 130
LLCCV	4H12001-CRL4	Vanadium	20.00	19.5	98	ug/L	J	70 - 130
LLCCV	4H12001-CRL4	Zinc	30.00	28.3	94	ug/L	J	70 - 130

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N. Initial and Continuing Calibration Results

(INITIAL CALIBRATION DATA)
(INITIAL AND CONTINUING CALIBRATION CHECK)

INITIAL CALIBRATION DATA

EPA 7471B

Client: WESTON SOLUTIONS SDG: 1408019

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Calibration: 4081202 Instrument: V4

Calibration Date: 8/11/2014 4:47:34PM

Compound	QC Sample	Lab ID	Area	Conc (ug/L)
Mercury	CAL1	S0	720	0
Mercury	CAL2	0.2	2529	0.2
Mercury	CAL3	S0.5	5761	0.5
Mercury	CAL4	S1.0	9297	1
Mercury	CAL5	S5.0	48173	5
Mercury	CAL6	S10.0	95146	10

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INITIAL CALIBRATION DATA (Continued)

EPA 7471B

Client: WESTON SOLUTIONS SDG: 1408019

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Calibration: 4081202 Instrument: V4

Calibration Date: 8/11/2014 4:47:34PM

Compound	Slope	Intercept	Linear r	Linear Limit	Q
Mercury	0.0001056	-0.06324	0.9999	0.995	

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N. Initial and Continuing Calibration Results

(INITIAL CALIBRATION DATA)
(INITIAL AND CONTINUING CALIBRATION CHECK)

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 7471B

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H11010 Instrument ID: V4

Client ID	Lab Sample ID	Analyte	True	Found	%R	Units	Q	Control Limit
ICV	4H11010-ICV1	Mercury	4.000	3.98	100	ug/L		+/-20
CCV	4H11010-CCV1	Mercury	5.000	5.03	101	ug/L		+/-20
CCV	4H11010-CCV2	Mercury	5.000	4.86	97	ug/L		+/-20
CCV	4H11010-CCV3	Mercury	5.000	4.76	95	ug/L		+/-20
CCV	4H11010-CCV4	Mercury	5.000	4.62	92	ug/L		+/-20

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INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010C

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H12001 Instrument ID: P4

Client ID	Lab Sample ID	Analyte	True	Found	%R	Units	Q	Control Limit
ICV	4H12001-ICV1	Aluminum	2600	2830	109	ug/L		+/-10
ICV	4H12001-ICV1	Antimony	1100	1120	102	ug/L		+/-10
ICV	4H12001-ICV1	Arsenic	1100	1060	97	ug/L		+/-10
ICV	4H12001-ICV1	Barium	550.0	551	100	ug/L		+/-10
ICV	4H12001-ICV1	Beryllium	550.0	548	100	ug/L		+/-10
ICV	4H12001-ICV1	Cadmium	550.0	559	102	ug/L		+/-10
ICV	4H12001-ICV1	Calcium	11000	11500	105	ug/L		+/-10
ICV	4H12001-ICV1	Chromium	550.0	554	101	ug/L		+/-10
ICV	4H12001-ICV1	Cobalt	550.0	545	99	ug/L		+/-10
ICV	4H12001-ICV1	Copper	550.0	552	100	ug/L		+/-10
ICV	4H12001-ICV1	Iron	5100	5170	101	ug/L		+/-10
ICV	4H12001-ICV1	Lead	1100	1100	100	ug/L		+/-10
ICV	4H12001-ICV1	Magnesium	6000	6120	102	ug/L		+/-10
ICV	4H12001-ICV1	Manganese	550.0	550	100	ug/L		+/-10
ICV	4H12001-ICV1	Nickel	550.0	554	101	ug/L		+/-10
ICV	4H12001-ICV1	Potassium	11000	11600	105	ug/L		+/-10
ICV	4H12001-ICV1	Selenium	1100	1090	99	ug/L		+/-10
ICV	4H12001-ICV1	Silver	550.0	554	101	ug/L		+/-10
ICV	4H12001-ICV1	Sodium	11000	11600	105	ug/L		+/-10
ICV	4H12001-ICV1	Thallium	1100	1110	101	ug/L		+/-10
ICV	4H12001-ICV1	Vanadium	550.0	537	98	ug/L		+/-10
ICV	4H12001-ICV1	Zinc	1100	1130	103	ug/L		+/-10
CCV1	4H12001-CCV1	Aluminum	50000	54700	109	ug/L		+/-10
CCV1	4H12001-CCV1	Antimony	1000	1040	104	ug/L		+/-10
CCV1	4H12001-CCV1	Arsenic	1000	988	99	ug/L		+/-10
CCV1	4H12001-CCV1	Barium	1000	998	100	ug/L		+/-10
CCV1	4H12001-CCV1	Beryllium	1000	991	99	ug/L		+/-10
CCV1	4H12001-CCV1	Cadmium	1000	1010	101	ug/L		+/-10
CCV1	4H12001-CCV1	Calcium	50000	51700	103	ug/L		+/-10
CCV1	4H12001-CCV1	Chromium	1000	1010	101	ug/L		+/-10
CCV1	4H12001-CCV1	Cobalt	1000	980	98	ug/L		+/-10
CCV1	4H12001-CCV1	Copper	1000	996	100	ug/L		+/-10
CCV1	4H12001-CCV1	Iron	25000	24900	100	ug/L		+/-10
CCV1	4H12001-CCV1	Lead	1000	998	100	ug/L		+/-10
CCV1	4H12001-CCV1	Magnesium	50000	51800	104	ug/L		+/-10
CCV1	4H12001-CCV1	Manganese	1000	992	99	ug/L		+/-10
CCV1	4H12001-CCV1	Nickel	1000	1010	101	ug/L		+/-10
CCV1	4H12001-CCV1	Potassium	50000	50800	102	ug/L		+/-10
CCV1	4H12001-CCV1	Selenium	1000	1000	100	ug/L		+/-10
CCV1	4H12001-CCV1	Silver	100.0	99.7	100	ug/L		+/-10

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INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010C

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H12001 Instrument ID: P4

Client ID	Lab Sample ID	Analyte	True	Found	%R	Units	Q	Control Limit
CCV1	4H12001-CCV1	Sodium	50000	52300	105	ug/L		+/-10
CCV1	4H12001-CCV1	Thallium	1000	1000	100	ug/L		+/-10
CCV1	4H12001-CCV1	Vanadium	1000	970	97	ug/L		+/-10
CCV1	4H12001-CCV1	Zinc	1000	1020	102	ug/L		+/-10
CCV1	4H12001-CCV2	Aluminum	50000	54000	108	ug/L		+/-10
CCV1	4H12001-CCV2	Antimony	1000	1040	104	ug/L		+/-10
CCV1	4H12001-CCV2	Arsenic	1000	984	98	ug/L		+/-10
CCV1	4H12001-CCV2	Barium	1000	1000	100	ug/L		+/-10
CCV1	4H12001-CCV2	Beryllium	1000	979	98	ug/L		+/-10
CCV1	4H12001-CCV2	Cadmium	1000	1010	101	ug/L		+/-10
CCV1	4H12001-CCV2	Calcium	50000	51600	103	ug/L		+/-10
CCV1	4H12001-CCV2	Chromium	1000	1000	100	ug/L		+/-10
CCV1	4H12001-CCV2	Cobalt	1000	980	98	ug/L		+/-10
CCV1	4H12001-CCV2	Copper	1000	1020	102	ug/L		+/-10
CCV1	4H12001-CCV2	Iron	25000	25100	101	ug/L		+/-10
CCV1	4H12001-CCV2	Lead	1000	1000	100	ug/L		+/-10
CCV1	4H12001-CCV2	Magnesium	50000	51500	103	ug/L		+/-10
CCV1	4H12001-CCV2	Manganese	1000	994	99	ug/L		+/-10
CCV1	4H12001-CCV2	Nickel	1000	1010	101	ug/L		+/-10
CCV1	4H12001-CCV2	Potassium	50000	52800	106	ug/L		+/-10
CCV1	4H12001-CCV2	Selenium	1000	995	100	ug/L		+/-10
CCV1	4H12001-CCV2	Silver	100.0	102	102	ug/L		+/-10
CCV1	4H12001-CCV2	Sodium	50000	53900	108	ug/L		+/-10
CCV1	4H12001-CCV2	Thallium	1000	1020	102	ug/L		+/-10
CCV1	4H12001-CCV2	Vanadium	1000	967	97	ug/L		+/-10
CCV1	4H12001-CCV2	Zinc	1000	1020	102	ug/L		+/-10
CCV1	4H12001-CCV3	Aluminum	50000	54400	109	ug/L		+/-10
CCV1	4H12001-CCV3	Antimony	1000	1020	102	ug/L		+/-10
CCV1	4H12001-CCV3	Arsenic	1000	974	97	ug/L		+/-10
CCV1	4H12001-CCV3	Barium	1000	986	99	ug/L		+/-10
CCV1	4H12001-CCV3	Beryllium	1000	971	97	ug/L		+/-10
CCV1	4H12001-CCV3	Cadmium	1000	995	100	ug/L		+/-10
CCV1	4H12001-CCV3	Calcium	50000	51100	102	ug/L		+/-10
CCV1	4H12001-CCV3	Chromium	1000	987	99	ug/L		+/-10
CCV1	4H12001-CCV3	Cobalt	1000	966	97	ug/L		+/-10
CCV1	4H12001-CCV3	Copper	1000	1000	100	ug/L		+/-10
CCV1	4H12001-CCV3	Iron	25000	24900	100	ug/L		+/-10
CCV1	4H12001-CCV3	Lead	1000	993	99	ug/L		+/-10
CCV1	4H12001-CCV3	Magnesium	50000	50600	101	ug/L		+/-10
CCV1	4H12001-CCV3	Manganese	1000	981	98	ug/L		+/-10

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INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010C

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H12001 Instrument ID: P4

Client ID	Lab Sample ID	Analyte	True	Found	%R	Units	Q	Control Limit
CCV1	4H12001-CCV3	Nickel	1000	1000	100	ug/L		+/-10
CCV1	4H12001-CCV3	Potassium	50000	53000	106	ug/L		+/-10
CCV1	4H12001-CCV3	Selenium	1000	986	99	ug/L		+/-10
CCV1	4H12001-CCV3	Silver	100.0	100	100	ug/L		+/-10
CCV1	4H12001-CCV3	Sodium	50000	54300	109	ug/L		+/-10
CCV1	4H12001-CCV3	Thallium	1000	1010	101	ug/L		+/-10
CCV1	4H12001-CCV3	Vanadium	1000	959	96	ug/L		+/-10
CCV1	4H12001-CCV3	Zinc	1000	995	100	ug/L		+/-10
CCV1	4H12001-CCV4	Aluminum	50000	54000	108	ug/L		+/-10
CCV1	4H12001-CCV4	Antimony	1000	1010	101	ug/L		+/-10
CCV1	4H12001-CCV4	Arsenic	1000	926	93	ug/L		+/-10
CCV1	4H12001-CCV4	Barium	1000	995	100	ug/L		+/-10
CCV1	4H12001-CCV4	Beryllium	1000	932	93	ug/L		+/-10
CCV1	4H12001-CCV4	Cadmium	1000	950	95	ug/L		+/-10
CCV1	4H12001-CCV4	Calcium	50000	49400	99	ug/L		+/-10
CCV1	4H12001-CCV4	Chromium	1000	965	97	ug/L		+/-10
CCV1	4H12001-CCV4	Cobalt	1000	925	93	ug/L		+/-10
CCV1	4H12001-CCV4	Copper	1000	1010	101	ug/L		+/-10
CCV1	4H12001-CCV4	Iron	25000	24100	97	ug/L		+/-10
CCV1	4H12001-CCV4	Lead	1000	960	96	ug/L		+/-10
CCV1	4H12001-CCV4	Magnesium	50000	48300	97	ug/L		+/-10
CCV1	4H12001-CCV4	Manganese	1000	959	96	ug/L		+/-10
CCV1	4H12001-CCV4	Nickel	1000	968	97	ug/L		+/-10
CCV1	4H12001-CCV4	Potassium	50000	54100	108	ug/L		+/-10
CCV1	4H12001-CCV4	Selenium	1000	939	94	ug/L		+/-10
CCV1	4H12001-CCV4	Silver	100.0	99.7	100	ug/L		+/-10
CCV1	4H12001-CCV4	Sodium	50000	54500	109	ug/L		+/-10
CCV1	4H12001-CCV4	Thallium	1000	996	100	ug/L		+/-10
CCV1	4H12001-CCV4	Vanadium	1000	944	94	ug/L		+/-10
CCV1	4H12001-CCV4	Zinc	1000	944	94	ug/L		+/-10
CCV1	4H12001-CCV5	Aluminum	50000	52900	106	ug/L		+/-10
CCV1	4H12001-CCV5	Antimony	1000	971	97	ug/L		+/-10
CCV1	4H12001-CCV5	Arsenic	1000	994	99	ug/L		+/-10
CCV1	4H12001-CCV5	Barium	1000	980	98	ug/L		+/-10
CCV1	4H12001-CCV5	Beryllium	1000	941	94	ug/L		+/-10
CCV1	4H12001-CCV5	Cadmium	1000	943	94	ug/L		+/-10
CCV1	4H12001-CCV5	Calcium	50000	49100	98	ug/L		+/-10
CCV1	4H12001-CCV5	Chromium	1000	968	97	ug/L		+/-10
CCV1	4H12001-CCV5	Cobalt	1000	918	92	ug/L		+/-10
CCV1	4H12001-CCV5	Copper	1000	960	96	ug/L		+/-10

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INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010C

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H12001 Instrument ID: P4

Client ID	Lab Sample ID	Analyte	True	Found	%R	Units	Q	Control Limit
CCV1	4H12001-CCV5	Iron	25000	24000	96	ug/L		+/-10
CCV1	4H12001-CCV5	Lead	1000	942	94	ug/L		+/-10
CCV1	4H12001-CCV5	Magnesium	50000	46800	94	ug/L		+/-10
CCV1	4H12001-CCV5	Manganese	1000	960	96	ug/L		+/-10
CCV1	4H12001-CCV5	Nickel	1000	960	96	ug/L		+/-10
CCV1	4H12001-CCV5	Potassium	50000	48700	97	ug/L		+/-10
CCV1	4H12001-CCV5	Selenium	1000	997	100	ug/L		+/-10
CCV1	4H12001-CCV5	Silver	100.0	96.9	97	ug/L		+/-10
CCV1	4H12001-CCV5	Sodium	50000	46800	94	ug/L		+/-10
CCV1	4H12001-CCV5	Thallium	1000	983	98	ug/L		+/-10
CCV1	4H12001-CCV5	Vanadium	1000	952	95	ug/L		+/-10
CCV1	4H12001-CCV5	Zinc	1000	951	95	ug/L		+/-10

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P. High Range Standard

(HIGH RANGE STANDARD)

HIGH RANGE STANDARD

EPA 6010C

Client: WESTON SOLUTIONS **SDG:** 1408019 **Project:** RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 4H12001-HCV1 **Sequence:** 4H12001 **Standard ID:** 4G28039

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% Rec	Q	QC LIMIT
Aluminum	200000	210000	105		-20-220
Antimony	20000	20400	102		-20-220
Arsenic	20000	19000	95.1		-20-220
Barium	50000	50000	99.9		-20-220
Beryllium	20000	18300	91.5		-20-220
Cadmium	20000	18700	93.5		-20-220
Calcium	200000	201000	101		-20-220
Chromium	20000	19300	96.5		-20-220
Cobalt	20000	18700	93.7		-20-220
Copper	20000	19400	96.8		-20-220
Iron	200000	186000	93.1		-20-220
Lead	20000	19200	96.1		-20-220
Magnesium	200000	201000	101		-20-220
Manganese	20000	19200	96.2		-20-220
Nickel	20000	19200	95.8		-20-220
Potassium	200000	193000	96.4		-20-220
Selenium	20000	19000	95.2		-20-220
Silver	2000	2140	107		-20-220
Sodium	200000	212000	106		-20-220
Thallium	20000	19500	97.5		-20-220
Vanadium	20000	18900	94.4		-20-220
Zinc	20000	19600	98.0		-20-220

* Values outside of QC limits

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Q. ICP-AES and ICP-MS Instrument Results

(ICP INTERFERENCE CHECK SAMPLE)
(ICP-AES AND ICP-MS LINEAR RANGES)
(ICP-AES INTERELEMENT CORRECTION FACTORS)
(ICP-MS TUNE)
(ICPMS Internal Standards Relative Intensity Summary)

ICP Interference Check Sample

ICP INTERFERENCE CHECK SAMPLE

EPA 6010C

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H12001 Instrument ID: P4

Client ID	Lab Sample ID	Analyte	True	Found	%R	Units
ICSA	4H12001-IFA1	Aluminum	250000	268100.30	107	ug/L
ICSA	4H12001-IFA1	Antimony		0.51	60	ug/L
ICSA	4H12001-IFA1	Arsenic		-3.21	20	ug/L
ICSA	4H12001-IFA1	Barium		0.47	400	ug/L
ICSA	4H12001-IFA1	Beryllium		2.06	10	ug/L
ICSA	4H12001-IFA1	Cadmium		-0.05	10	ug/L
ICSA	4H12001-IFA1	Calcium	250000	257246.70	103	ug/L
ICSA	4H12001-IFA1	Chromium		-0.22	20	ug/L
ICSA	4H12001-IFA1	Cobalt		4.20	40	ug/L
ICSA	4H12001-IFA1	Copper		0.99	10	ug/L
ICSA	4H12001-IFA1	Iron	100000	93916.70	94	ug/L
ICSA	4H12001-IFA1	Lead		4.15	20	ug/L
ICSA	4H12001-IFA1	Magnesium	250000	259134.10	104	ug/L
ICSA	4H12001-IFA1	Manganese		1.06	20	ug/L
ICSA	4H12001-IFA1	Nickel		1.09	20	ug/L
ICSA	4H12001-IFA1	Potassium		-1.43	10,000	ug/L
ICSA	4H12001-IFA1	Selenium		-1.59	20	ug/L
ICSA	4H12001-IFA1	Silver		-0.57	10	ug/L
ICSA	4H12001-IFA1	Sodium		31.71	10,000	ug/L
ICSA	4H12001-IFA1	Thallium		12.62	60	ug/L
ICSA	4H12001-IFA1	Vanadium		-4.57	40	ug/L
ICSA	4H12001-IFA1	Zinc		1.29	60	ug/L
ICSAB	4H12001-IFB1	Aluminum	250000	264964.40	106	ug/L
ICSAB	4H12001-IFB1	Antimony	600.0	615.59	103	ug/L
ICSAB	4H12001-IFB1	Arsenic	100.0	93.71	94	ug/L
ICSAB	4H12001-IFB1	Barium	500.0	507.61	102	ug/L
ICSAB	4H12001-IFB1	Beryllium	500.0	490.64	98	ug/L
ICSAB	4H12001-IFB1	Cadmium	1000	970.55	97	ug/L
ICSAB	4H12001-IFB1	Calcium	250000	254274.70	102	ug/L
ICSAB	4H12001-IFB1	Chromium	500.0	489.91	98	ug/L
ICSAB	4H12001-IFB1	Cobalt	500.0	487.17	97	ug/L
ICSAB	4H12001-IFB1	Copper	500.0	494.40	99	ug/L
ICSAB	4H12001-IFB1	Iron	100000	93001.70	93	ug/L
ICSAB	4H12001-IFB1	Lead	50.00	52.76	106	ug/L
ICSAB	4H12001-IFB1	Magnesium	250000	255723.70	102	ug/L
ICSAB	4H12001-IFB1	Manganese	500.0	493.21	99	ug/L

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ICP INTERFERENCE CHECK SAMPLE

EPA 6010C

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H12001 Instrument ID: P4

Client ID	Lab Sample ID	Analyte	True	Found	%R	Units
ICSAB	4H12001-IFB1	Nickel	1000	972.85	97	ug/L
ICSAB	4H12001-IFB1	Potassium		8.43	10,000	ug/L
ICSAB	4H12001-IFB1	Selenium	50.00	44.20	88	ug/L
ICSAB	4H12001-IFB1	Silver	200.0	196.80	98	ug/L
ICSAB	4H12001-IFB1	Sodium		600.41	10,000	ug/L
ICSAB	4H12001-IFB1	Thallium	100.0	111.45	111	ug/L
ICSAB	4H12001-IFB1	Vanadium	500.0	479.32	96	ug/L
ICSAB	4H12001-IFB1	Zinc	1000	990.24	99	ug/L

* The absence of an entry in the "True" column denotes the lack of a true value for that analyte. The entry in the "%R" column represents a Control Limit, established as +/- 2 times analyte Limit Reporting Limit.

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ICP-AES AND ICP-MS LINEAR RANGES

ICP-AES LINEAR RANGES

Client: WESTON SOLUTIONS

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

SDG: 1408019 Instrument: P4

Analyte	Concentration ug/L	LR Date
Aluminum	700000	02/27/2014
Antimony	60000	02/27/2014
Arsenic	30000	02/27/2014
Barium	60000	02/27/2014
Beryllium	5000	02/27/2014
Cadmium	30000	02/27/2014
Calcium	700000	02/27/2014
Chromium	60000	02/27/2014
Cobalt	60000	02/27/2014
Copper	60000	02/27/2014
Iron	250000	02/27/2014
Lead	60000	02/27/2014
Magnesium	700000	02/27/2014
Manganese	60000	02/27/2014
Nickel	60000	02/27/2014
Potassium	300000	02/27/2014
Selenium	40000	02/27/2014
Silver	3000	02/27/2014
Sodium	300000	02/27/2014
Thallium	60000	02/27/2014
Vanadium	60000	02/27/2014
Zinc	60000	02/27/2014

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ICP-AES INTERELEMENT CORRECTION FACTORS

ICP-AES INTERELEMENT CORRECTION FACTORS

Client: WESTON SOLUTIONS

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

SDG No.: 1408019 Instrument: P4 Date: 4/2/14

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Aluminum	308.21					
Antimony	206.84			0.00010		
Arsenic	189.04					
Barium	493.41					
Beryllium	313.04					
Cadmium	226.50	0.00003		0.00008		0.00054
Calcium	317.93					
Chromium	267.72					
Cobalt	228.62	0.00002		0.00043		
Copper	324.70					
Iron	271.44				-0.00228	
Lead	220.35					
Magnesium	279.08					
Manganese	257.61					
Nickel	231.60					
Potassium	766.49					
Selenium	196.02					
Silver	328.07					
Sodium	330.23					
Thallium	190.86	(0.00001)		0.00038		
Vanadium	292.40			-0.00027		
Zinc	206.20					

Comments:

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ICP-AES INTERELEMENT CORRECTION FACTORS

Client: WESTON SOLUTIONS

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

SDG No.: 1408019 Instrument: P4 Date: 4/2/14

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		As	B	Ba	Be	Cd
Aluminum	308.21					
Antimony	206.84					
Arsenic	189.04					
Barium	493.41					
Beryllium	313.04					
Cadmium	226.50					
Calcium	317.93					
Chromium	267.72					
Cobalt	228.62			0.00040		
Copper	324.70					
Iron	271.44					
Lead	220.35					
Magnesium	279.08					
Manganese	257.61					
Nickel	231.60					
Potassium	766.49					
Selenium	196.02					
Silver	328.07					
Sodium	330.23					
Thallium	190.86					
Vanadium	292.40					
Zinc	206.20					

Comments:

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ICP-AES INTERELEMENT CORRECTION FACTORS

Client: WESTON SOLUTIONS

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

SDG No.: 1408019 Instrument: P4 Date: 4/2/14

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	K	Mn
Aluminum	308.21					
Antimony	206.84		0.00530			
Arsenic	189.04		-0.00597			
Barium	493.41					
Beryllium	313.04					-0.00010
Cadmium	226.50					
Calcium	317.93					
Chromium	267.72					
Cobalt	228.62					
Copper	324.70					
Iron	271.44	0.08425				
Lead	220.35					
Magnesium	279.08					
Manganese	257.61					
Nickel	231.60	-0.00050				
Potassium	766.49					
Selenium	196.02					
Silver	328.07					
Sodium	330.23					
Thallium	190.86	-0.00143				-0.00074
Vanadium	292.40		-0.00218			
Zinc	206.20		-0.00121			

Comments:

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ICP-AES INTERELEMENT CORRECTION FACTORS

Client: WESTON SOLUTIONS

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

SDG No.: 1408019 Instrument: P4 Date: 4/2/14

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Mo	Na	Ni	Pb	Sb
Aluminum	308.21					
Antimony	206.84					
Arsenic	189.04			0.00015		
Barium	493.41		0.00013			
Beryllium	313.04					
Cadmium	226.50			0.00011		
Calcium	317.93					
Chromium	267.72					
Cobalt	228.62			0.00047		
Copper	324.70					
Iron	271.44					
Lead	220.35					
Magnesium	279.08					
Manganese	257.61					
Nickel	231.60					
Potassium	766.49					
Selenium	196.02					
Silver	328.07					
Sodium	330.23					
Thallium	190.86					
Vanadium	292.40					
Zinc	206.20					

Comments:

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ICP-AES INTERELEMENT CORRECTION FACTORS

Client: WESTON SOLUTIONS

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

SDG No.: 1408019 Instrument: P4 Date: 4/2/14

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Se	Sn	Ti	Tl	V
Aluminum	308.21					-0.021765
Antimony	206.84		-0.00264			-0.003608
Arsenic	189.04					
Barium	493.41					
Beryllium	313.04					0.002943
Cadmium	226.50					
Calcium	317.93					
Chromium	267.72					-0.000309
Cobalt	228.62				0.00216	
Copper	324.70					-0.000476
Iron	271.44					0.015634
Lead	220.35					
Magnesium	279.08					
Manganese	257.61					-0.000191
Nickel	231.60					
Potassium	766.49					
Selenium	196.02					
Silver	328.07					
Sodium	330.23				-0.12823	
Thallium	190.86					-0.001394
Vanadium	292.40					
Zinc	206.20					

Comments:

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ICP-AES INTERELEMENT CORRECTION FACTORS

Client: WESTON SOLUTIONS

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

SDG No.: 1408019 Instrument: P4 Date: 4/2/14

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Aluminum	308.21					
Antimony	206.84					
Arsenic	189.04					
Barium	493.41					
Beryllium	313.04					
Cadmium	226.50					
Calcium	317.93					
Chromium	267.72					
Cobalt	228.62					
Copper	324.70					
Iron	271.44					
Lead	220.35					
Magnesium	279.08					
Manganese	257.61					
Nickel	231.60					
Potassium	766.49					
Selenium	196.02					
Silver	328.07					
Sodium	330.23					
Thallium	190.86					
Vanadium	292.40					
Zinc	206.20					

Comments:

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R. Method and Instrument Blank Results

(BLANKS)

BLANKS

EPA 7471B

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H11010 Instrument ID: V4

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
ICB	4H11010-ICB1	Mercury	-0.0160	0.0227	0.198	ug/L	*U*	EPA 7471B
CCB	4H11010-CCB1	Mercury	0.00200	0.0227	0.198	ug/L	*U*	EPA 7471B
PBSFE	4081102-BLK1	Mercury	-0.00600	0.00379	0.0330	mg/kg wet	*J*	EPA 7471B
CCB	4H11010-CCB2	Mercury	-0.00200	0.0227	0.198	ug/L	*U*	EPA 7471B
CCB	4H11010-CCB3	Mercury	0.0260	0.0227	0.198	ug/L	*J*	EPA 7471B
CCB	4H11010-CCB4	Mercury	0.0250	0.0227	0.198	ug/L	*J*	EPA 7471B

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BLANKS

EPA 6010C

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H12001 Instrument ID: P4

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
ICB	4H12001-ICB1	Aluminum	12.5	21.3	200	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Antimony	-0.0133	4.47	30.0	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Arsenic	1.30	1.65	10.0	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Barium	-0.00127	11.9	200	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Beryllium	-0.470	0.282	5.00	ug/L	J	EPA 6010C
ICB	4H12001-ICB1	Cadmium	0.0566	0.642	5.00	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Calcium	-16.1	299	5000	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Chromium	0.280	1.19	10.0	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Cobalt	1.49	2.96	20.0	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Copper	0.814	1.15	5.00	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Iron	16.4	17.8	200	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Lead	-0.988	1.82	10.0	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Magnesium	8.70	263	5000	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Manganese	0.0145	0.505	10.0	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Nickel	0.530	0.937	10.0	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Potassium	6.88	33.8	5000	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Selenium	-1.25	2.05	10.0	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Silver	-0.303	0.540	5.00	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Sodium	46.6	534	5000	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Thallium	1.51	6.42	30.0	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Vanadium	0.352	1.42	20.0	ug/L	U	EPA 6010C
ICB	4H12001-ICB1	Zinc	0.429	2.67	30.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB1	Aluminum	27.3	21.3	200	ug/L	J	EPA 6010C
CCB1	4H12001-CCB1	Antimony	0.333	4.47	30.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB1	Arsenic	-1.08	1.65	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB1	Barium	0.0416	11.9	200	ug/L	U	EPA 6010C
CCB1	4H12001-CCB1	Beryllium	-0.134	0.282	5.00	ug/L	U	EPA 6010C
CCB1	4H12001-CCB1	Cadmium	-0.0343	0.642	5.00	ug/L	U	EPA 6010C
CCB1	4H12001-CCB1	Calcium	-27.1	299	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB1	Chromium	-0.820	1.19	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB1	Cobalt	0.346	2.96	20.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB1	Copper	0.457	1.15	5.00	ug/L	U	EPA 6010C
CCB1	4H12001-CCB1	Iron	12.7	17.8	200	ug/L	U	EPA 6010C
CCB1	4H12001-CCB1	Lead	-1.89	1.82	10.0	ug/L	J	EPA 6010C
CCB1	4H12001-CCB1	Magnesium	9.26	263	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB1	Manganese	0.122	0.505	10.0	ug/L	U	EPA 6010C

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EPA 6010C

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H12001 Instrument ID: P4

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
CCB1	4H12001-CCB1	Nickel	-0.252	0.937	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB1	Potassium	6.77	33.8	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB1	Selenium	1.43	2.05	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB1	Silver	-0.338	0.540	5.00	ug/L	U	EPA 6010C
CCB1	4H12001-CCB1	Sodium	62.7	534	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB1	Thallium	3.51	6.42	30.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB1	Vanadium	0.494	1.42	20.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB1	Zinc	0.135	2.67	30.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Aluminum	30.2	21.3	200	ug/L	J	EPA 6010C
CCB1	4H12001-CCB2	Antimony	2.26	4.47	30.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Arsenic	0.105	1.65	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Barium	-0.0543	11.9	200	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Beryllium	0.164	0.282	5.00	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Cadmium	-0.296	0.642	5.00	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Calcium	-72.8	299	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Chromium	-0.0477	1.19	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Cobalt	-0.691	2.96	20.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Copper	0.0834	1.15	5.00	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Iron	8.23	17.8	200	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Lead	-2.37	1.82	10.0	ug/L	J	EPA 6010C
CCB1	4H12001-CCB2	Magnesium	7.34	263	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Manganese	0.122	0.505	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Nickel	0.369	0.937	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Potassium	10.4	33.8	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Selenium	-0.127	2.05	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Silver	-0.151	0.540	5.00	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Sodium	229	534	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Thallium	3.59	6.42	30.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Vanadium	0.846	1.42	20.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB2	Zinc	-0.0149	2.67	30.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB3	Aluminum	32.4	21.3	200	ug/L	J	EPA 6010C
CCB1	4H12001-CCB3	Antimony	-0.962	4.47	30.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB3	Arsenic	1.40	1.65	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB3	Barium	-0.211	11.9	200	ug/L	U	EPA 6010C
CCB1	4H12001-CCB3	Beryllium	-0.851	0.282	5.00	ug/L	J	EPA 6010C
CCB1	4H12001-CCB3	Cadmium	-0.883	0.642	5.00	ug/L	J	EPA 6010C

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EPA 6010C

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H12001 Instrument ID: P4

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
CCB1	4H12001-CCB3	Calcium	-134	299	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB3	Chromium	-0.376	1.19	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB3	Cobalt	-3.55	2.96	20.0	ug/L	J	EPA 6010C
CCB1	4H12001-CCB3	Copper	-1.25	1.15	5.00	ug/L	J	EPA 6010C
CCB1	4H12001-CCB3	Iron	12.6	17.8	200	ug/L	U	EPA 6010C
CCB1	4H12001-CCB3	Lead	-0.972	1.82	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB3	Magnesium	7.79	263	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB3	Manganese	0.109	0.505	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB3	Nickel	-0.121	0.937	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB3	Potassium	9.18	33.8	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB3	Selenium	-1.71	2.05	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB3	Silver	-0.698	0.540	5.00	ug/L	J	EPA 6010C
CCB1	4H12001-CCB3	Sodium	133	534	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB3	Thallium	0.330	6.42	30.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB3	Vanadium	0.175	1.42	20.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB3	Zinc	-0.155	2.67	30.0	ug/L	U	EPA 6010C
PBSFD	4081101-BLK1	Aluminum	11.1	2.13	20.0	mg/kg wet	J	EPA 6010C
PBSFD	4081101-BLK1	Antimony	1.24	0.447	3.00	mg/kg wet	J	EPA 6010C
PBSFD	4081101-BLK1	Arsenic		0.165	1.00	mg/kg wet	U	EPA 6010C
PBSFD	4081101-BLK1	Barium		1.19	20.0	mg/kg wet	U	EPA 6010C
PBSFD	4081101-BLK1	Beryllium	0.0609	0.0282	0.500	mg/kg wet	J	EPA 6010C
PBSFD	4081101-BLK1	Cadmium		0.0642	0.500	mg/kg wet	U	EPA 6010C
PBSFD	4081101-BLK1	Calcium	61.7	29.9	500	mg/kg wet	J	EPA 6010C
PBSFD	4081101-BLK1	Chromium	0.151	0.119	1.00	mg/kg wet	J	EPA 6010C
PBSFD	4081101-BLK1	Cobalt		0.296	2.00	mg/kg wet	U	EPA 6010C
PBSFD	4081101-BLK1	Copper		0.115	0.500	mg/kg wet	U	EPA 6010C
PBSFD	4081101-BLK1	Iron	4.48	1.78	20.0	mg/kg wet	J	EPA 6010C
PBSFD	4081101-BLK1	Lead	0.415	0.182	1.00	mg/kg wet	J	EPA 6010C
PBSFD	4081101-BLK1	Magnesium		26.3	500	mg/kg wet	U	EPA 6010C
PBSFD	4081101-BLK1	Manganese	0.0586	0.0505	1.00	mg/kg wet	J	EPA 6010C
PBSFD	4081101-BLK1	Nickel		0.0937	1.00	mg/kg wet	U	EPA 6010C
PBSFD	4081101-BLK1	Potassium	6.08	3.38	500	mg/kg wet	J	EPA 6010C
PBSFD	4081101-BLK1	Selenium		0.205	1.00	mg/kg wet	U	EPA 6010C
PBSFD	4081101-BLK1	Silver	-0.0826	0.0540	0.500	mg/kg wet	J	EPA 6010C
PBSFD	4081101-BLK1	Sodium		53.4	500	mg/kg wet	U	EPA 6010C
PBSFD	4081101-BLK1	Thallium		0.642	3.00	mg/kg wet	U	EPA 6010C

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EPA 6010C

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H12001 Instrument ID: P4

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
PBSFD	4081101-BLK1	Vanadium		0.142	2.00	mg/kg wet	U	EPA 6010C
PBSFD	4081101-BLK1	Zinc	0.445	0.267	3.00	mg/kg wet	J	EPA 6010C
CCB1	4H12001-CCB4	Aluminum	13.7	21.3	200	ug/L	U	EPA 6010C
CCB1	4H12001-CCB4	Antimony	3.63	4.47	30.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB4	Arsenic	-0.217	1.65	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB4	Barium	0.220	11.9	200	ug/L	U	EPA 6010C
CCB1	4H12001-CCB4	Beryllium	-1.16	0.282	5.00	ug/L	J	EPA 6010C
CCB1	4H12001-CCB4	Cadmium	-2.42	0.642	5.00	ug/L	J	EPA 6010C
CCB1	4H12001-CCB4	Calcium	-59.7	299	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB4	Chromium	-0.187	1.19	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB4	Cobalt	-11.3	2.96	20.0	ug/L	J	EPA 6010C
CCB1	4H12001-CCB4	Copper	-0.780	1.15	5.00	ug/L	U	EPA 6010C
CCB1	4H12001-CCB4	Iron	1.10	17.8	200	ug/L	U	EPA 6010C
CCB1	4H12001-CCB4	Lead	-0.602	1.82	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB4	Magnesium	14.0	263	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB4	Manganese	-0.0310	0.505	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB4	Nickel	0.273	0.937	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB4	Potassium	20.3	33.8	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB4	Selenium	1.06	2.05	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB4	Silver	-0.384	0.540	5.00	ug/L	U	EPA 6010C
CCB1	4H12001-CCB4	Sodium	241	534	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB4	Thallium	2.32	6.42	30.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB4	Vanadium	0.563	1.42	20.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB4	Zinc	-0.0245	2.67	30.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB5	Aluminum	-43.7	21.3	200	ug/L	J	EPA 6010C
CCB1	4H12001-CCB5	Antimony	1.53	4.47	30.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB5	Arsenic	1.54	1.65	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB5	Barium	0.0727	11.9	200	ug/L	U	EPA 6010C
CCB1	4H12001-CCB5	Beryllium	-0.970	0.282	5.00	ug/L	J	EPA 6010C
CCB1	4H12001-CCB5	Cadmium	-1.48	0.642	5.00	ug/L	J	EPA 6010C
CCB1	4H12001-CCB5	Calcium	-100	299	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB5	Chromium	-0.358	1.19	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB5	Cobalt	-8.61	2.96	20.0	ug/L	J	EPA 6010C
CCB1	4H12001-CCB5	Copper	-4.94	1.15	5.00	ug/L	J	EPA 6010C
CCB1	4H12001-CCB5	Iron	17.7	17.8	200	ug/L	U	EPA 6010C
CCB1	4H12001-CCB5	Lead	-0.455	1.82	10.0	ug/L	U	EPA 6010C

Environmental Testing Laboratories CompuChem A Division Of Liberty Analytical Corp.

ACCREDITED IN ACCORDANCE WITH nelac

BLANKS

EPA 6010C

Client: WESTON SOLUTIONS SDG: 1408019 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H12001 Instrument ID: P4

Client ID	Lab Sample ID	Analyte	Found	MDL	RL	Units	Q	Method
CCB1	4H12001-CCB5	Magnesium	14.0	263	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB5	Manganese	0.0814	0.505	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB5	Nickel	0.763	0.937	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB5	Potassium	17.2	33.8	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB5	Selenium	-0.614	2.05	10.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB5	Silver	-0.303	0.540	5.00	ug/L	U	EPA 6010C
CCB1	4H12001-CCB5	Sodium	76.1	534	5000	ug/L	U	EPA 6010C
CCB1	4H12001-CCB5	Thallium	2.35	6.42	30.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB5	Vanadium	0.734	1.42	20.0	ug/L	U	EPA 6010C
CCB1	4H12001-CCB5	Zinc	0.0639	2.67	30.0	ug/L	U	EPA 6010C

S. Run Logs/Raw Data

For each reported value, the laboratory shall include in the data package all raw data used to obtain that value. This applies to all required QA/QC measurements, instrument standardization, as well as all sample analysis results. This does not apply to the quarterly verification of method and instrument parameters submitted as a part of each data package.

Raw data shall be labeled with Client Identification numbers and appropriate codes in order to identify:

- calibration standards, including source and preparation date
- initial and continuing calibration blanks and preparation blanks
- initial and continuing calibration verification standards, , Laboratory Control Sample, and post digestion spike
- diluted and undiluted sample and all weights, dilutions, and volumes used to obtain the reported values
- duplicates
- spikes (indicating standard solutions used, final spike concentrations, and volumes involved).
- instrument used, any instrument adjustments, data corrections or other apparent anomalies on the measurement record, including all data voided or data not used and a brief written explanation
- time and date of each analysis (instrument run logs can be submitted if they contain this information)

Raw Data for:

Instrument: V4

File Name: 4H11010_P-012

Sequence: 4H11010

Analysis: 7470A 7471B Mercury

Maintenance: New tubing

Method(s) (circle one): ILM05.4 (7470A/7471B) Others

Operator(s): JCK Date/Time 081114/1647 to 081114/1834

Printed: 8/12/2014 5:18:09 PM

↑	Specified element(s) fail(s) high
↓	Specified element(s) fail(s) low
RR	Re-run sample(s) neat
RR #X	Re-run at a #-fold dilution
#X	Sample run at a #-fold dilution (aliquot of sample diluted with acidified water)
L	Matrix = leachate
W	Matrix = water
S	Matrix = solid
B	Matrix = biological tissue

SDG	Matrix	Comments
1408019	Soil	complete

Batch
4081102

HG Run Log V4

File Name: 4H11010.PRN

Seq	Sample ID	Client ID	Sample Type	DF	Date	Time	Standard #	Comments
1	4H11010-CAL1	S0	CALIB STD	1.0	11 AUG 201	16:47:09	4H11004	
2	4H11010-CAL2	S0.2	CALIB STD	1.0	11 AUG 201	16:49:51	05	
3	4H11010-CAL3	S0.5	CALIB STD	1.0	11 AUG 201	16:53:15	06	
4	4H11010-CAL4	S1.0	CALIB STD	1.0	11 AUG 201	16:55:45	07	
5	4H11010-CAL5	S5.0	CALIB STD	1.0	11 AUG 201	16:58:15	08	
6	4H11010-CAL6	S10.0	CALIB STD	1.0	11 AUG 201	17:00:56	09	
7	4H11010-ICV1	ICV	ICV	1.0	11 AUG 201	17:03:30	03	
8	4H11010-ICB1	ICB	ICB	1.0	11 AUG 201	17:05:59	04	
9	4H11010-CRL1	CRI	CRI	1.0	11 AUG 201	17:08:37	05	
10	4H11010-CCV1	CCV	CCV	1.0	11 AUG 201	17:11:10	08	
11	4H11010-CCB1	CCB	CCB	1.0	11 AUG 201	17:13:39	04	
12	4081102-BLK1	PBSFE	BLANK	1.0	11 AUG 201	17:16:30		
13	4081102-BS1	MLCSFE	LCS	5	11 AUG 201	17:18:59		
14	4081102-BSD1	MLCSDFE	LCS DUP	5	11 AUG 201	17:21:39		
15	1408022-01	1408022-01	SAMPLE	1.0	11 AUG 201	17:24:11		
16	1408022-02	1408022-02	SAMPLE	1.0	11 AUG 201	17:27:01		
17	1408024-01	1408024-01	SAMPLE	1.0	11 AUG 201	17:29:30		
18	1408024-02	1408024-02	SAMPLE	1.0	11 AUG 201	17:32:12		

* Element ID of Reagents/Solvents used: 4H 11012, 4622003, 4628041

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: [signature] Date: 8/12/14

HG Run Log V4

File Name: 4H11010.PRN

Seq	Sample ID	Client ID	Sample Type	DF	Date	Time	Standard #	Comments
19	4081102-DUP1	P001-S003-0002-01I	DUPLICATE	1.0	11 AUG 201	17:34:41		
20	4081102-MS1	P001-S003-0002-01:	MATRIX SPIKE	1.0	11 AUG 201	17:37:15		
21	4081102-MSD1	P001-S003-0002-01:	MATRIX SPIKE	1.0	11 AUG 201	17:39:45		
22	4H11010-CCV2	CCV	CCV	1.0	11 AUG 201	17:42:14	4H11008	
23	4H11010-CCB2	CCB	CCB	1.0	11 AUG 201	17:45:13	L 04	
24	1408024-03	1408024-03	SAMPLE	1.0	11 AUG 201	17:47:44		
25	1408024-04	1408024-04	SAMPLE	1.0	11 AUG 201	17:50:15		
26	1408024-05	1408024-05	SAMPLE	1.0	11 AUG 201	17:53:15		
27	1408024-07	1408024-07	SAMPLE	1.0	11 AUG 201	17:55:55		
28	4H11010-CCV3	CCV	CCV	1.0	11 AUG 201	17:59:14	4H11008	
29	4H11010-CCB3	CCB	CCB	1.0	11 AUG 201	18:01:43	L 04	
30	1408019-01	1408019-01	SAMPLE	1.0	11 AUG 201	18:04:42		
31	1408019-02	1408019-02	SAMPLE	1.0	11 AUG 201	18:07:37		
32	1408019-03	1408019-03	SAMPLE	1.0	11 AUG 201	18:10:12		
33	1408019-04	1408019-04	SAMPLE	1.0	11 AUG 201	18:12:41		
34	1408019-05	1408019-05	SAMPLE	1.0	11 AUG 201	18:15:11		
35	1408019-06	1408019-06	SAMPLE	1.0	11 AUG 201	18:17:50		
36	1408019-07	1408019-07	SAMPLE	1.0	11 AUG 201	18:20:30		
37	1408019-08	1408019-08	SAMPLE	1.0	11 AUG 201	18:23:02		
38	1408019-10	1408019-10	SAMPLE	1.0	11 AUG 201	18:26:35		
39	4H11010-IBL1	IBL	IBL	1.0	11 AUG 201	18:29:28		
40	4H11010-CCV4	CCV	CCV	1.0	11 AUG 201	18:32:01	4H11008	
41	4H11010-CCB4	CCB	CCB	1.0	11 AUG 201	18:34:33	04	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: [signature] Date: 8/12/14

Standards/QC Preparation Log for Analysis of Cold Vapor Mercury

COMPUCHEM a division of Liberty Analytical Corp. WORKSHEET 1 NNN

Seq. File Name 4H11009, 4H11010

REAGENTS	REF # [1]	MANUFACTURER	LOT #	EXPIRATION DATE
Sodium Chloride (NaCL)	3D25001	BDH	145430	04/25/18
Hydrochloric Acid (HCL)	4D22038	EMD	53077	04/22/19
Hydroxylamine Hydrochloride (NH_2OH-HCL)	3G05001	JTBAKER	0000048628	04/03/18
Stannous Chloride ($SnCL_2$-$2H_2O$)	4D22036	JTBAKER	000005794	03/29/17

STANDARD LOT NUMBER [2]	PREPARATION INSTRUCTIONS
$SnCL_2$– - 4H11012 Stannous chloride	Place in a 2000 mL volumetric flask containing 1000 mL of reagent water: 200 g of $SnCl_2$-$2H_2O$ Baker Instra-analyzed or equivalent 500 mL of HCL Baker Instra-analyzed or equivalent Dilute to 1000 mL with reagent water. Prepare as needed
10 % HCL – 4G22003 Hydrochloric Acid	Place in a 2 L volumetric flask: 1000 mL of deionized water 200 mL of concentrated HCL Baker Instra-analyzed or equivalent Dilute to 2000 mL with reagent water. Prepare as needed
NH_2OH-HCL–4G28041 Hydroxylamine hydrochloride	Place in a 2000 ml volumetric flask: 240.0 g of NH_2OH-HCl Baker Instra-analyzed or equivalent 240.0 g NaCl Baker Instra-analyzed or equivalent Dilute to 2000 mL with reagent water. Place solution in a repipetor bottle. Prepare as needed

Standard Solutions Prepared By: _____

Entered By: _____ Date: 08/1/14

Reviewed By: _____ Date: 8/1/14

[1]Ref# = Logbook ID, Page number, and item number from Materials Receipt Log

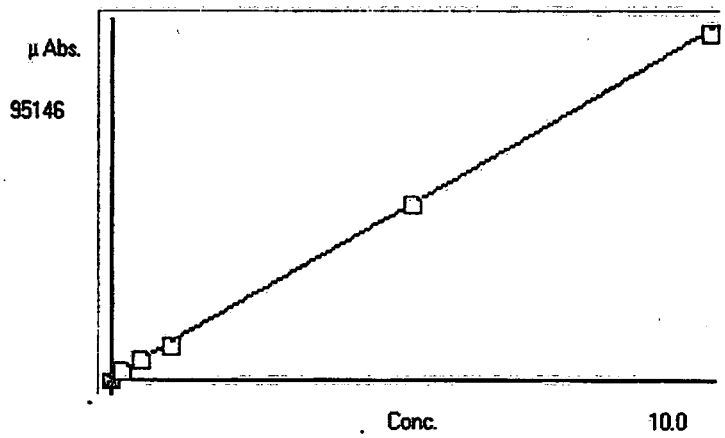
[2]Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

7/24/07: VR

Protocol: INSTIDV4

4 H 11010



☑ Calibrated

☑ Accepted

A

B 1.05573e-4

C -6.32448e-2

Rhc .999940

Accepted Date: 11-Aug-14 17:01

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	.013	.013	720	0	720				
02	.20000	.204	.004	2529	0%	2529				
03	.50000	.546	.046	5761	0%	5761				
04	1.0000	.919	-.081	9297	0%	9297				
05	5.0000	5.03	.027	48173	0%	48173				
06	10.000	9.99	-.009	95147	0%	95146				
07										
08										
09										
10										

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 1 16:47:09 11 Aug 14 HG

Hg .000 ppb 720 50 JK 081114

*** Standard: 2 Rep: 1 Seq: 2 16:49:51 11 Aug 14 HG

Hg .200 ppb 2529 50.2 JK 081114

*** Standard: 3 Rep: 1 Seq: 3 16:53:15 11 Aug 14 HG

Hg .500 ppb 5761 50.5 JK 081114

*** Standard: 4 Rep: 1 Seq: 4 16:55:45 11 Aug 14 HG

Hg 1.00 ppb 9297 51.0 JK 081114

*** Standard: 5 Rep: 1 Seq: 5 16:58:15 11 Aug 14 HG

Hg 5.00 ppb 48173 55.0 JK 081114

*** Standard: 6 Rep: 1 Seq: 6 17:00:56 11 Aug 14 HG

Hg 10.0 ppb 95146 510.0 JK 081114

*** Check Standard: 3 Ck3 ICV Seq: 7 17:03:30 11 Aug 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.6	3.98	4.00	ppb	.000

*** Check Standard: 1 Ck1 ~~CCB~~ ICB JK 081114 Seq: 8 17:05:59 11 Aug 14 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.016	.200	ppb	.000

*** Check Standard: 4 Ck4 CRI Seq: 9 17:08:37 11 Aug 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		92.9	.186	.200	ppb	.000

*** Check Standard: 2 Ck2 CCV Seq: 10 17:11:10 11 Aug 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	5.03	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 11 17:13:39 11 Aug 14 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.002	.200	ppb	.000

*** Sample ID: PBSFE Seq: 12 17:16:30 11 Aug 14 HG

4081102-BLK1

Hg -.036 ppb .000 -.036

*** Sample ID: MLCSFE Seq: 13 17:18:59 11 Aug 14 HG

4081102-BS1 5X

Hg 6.42 ppb .000 6.42

*** Sample ID: MLCSDFE Seq: 14 17:21:39 11 Aug 14 HG

4081102-BSD1 5X

Hg 6.62 ppb .000 6.62

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: TS-1                    Seq:  15     17:24:11 11 Aug 14   HG
                              1408022-01
Hg    .121    ppb       .000      .121
                                                                          =
==============================================================================
*** Sample ID: BF-1                    Seq:  16     17:27:01 11 Aug 14   HG
                              1408022-02
Hg    .089    ppb       .000      .089
                                                                          =
==============================================================================
*** Sample ID: P001-S002-              Seq:  17     17:29:30 11 Aug 14   HG
                              1408024-01
Hg    .095    ppb       .000      .095
                                                                          =
==============================================================================
*** Sample ID: P001-S003-              Seq:  18     17:32:12 11 Aug 14   HG
                              1408024-02
Hg    .232    ppb       .000      .232
                                                                          =
*** Sample ID: P001-S003-              Seq:  19     17:34:41 11 Aug 14   HG
                              4081102-DUP1
Hg    .190    ppb       .000      .190
                                                                          =
*** Sample ID: P001-S003-              Seq:  20     17:37:15 11 Aug 14   HG
                              4081102-MS1
Hg    1.11    ppb       .000      1.11
                                                                          =
*** Sample ID: P001-S003-              Seq:  21     17:39:45 11 Aug 14   HG
                              4081102-MSD1
Hg    1.16    ppb       .000      1.16
                                                                          =
*** Check Standard: 2  Ck2 CCV         Seq:  22     17:42:14 11 Aug 14   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          97.1    4.86    5.00  ppb         .000
                                                                          =
*** Check Standard: 1  Ck1 CCB         Seq:  23     17:45:13 11 Aug 14   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.002     .200     ppb       .000
                                                                          =
*** Sample ID: P001-S003-              Seq:  24     17:47:44 11 Aug 14   HG
                              1408024-03
Hg    .177    ppb       .000      .177
                                                                          =
==============================================================================
*** Sample ID: P001-S006-              Seq:  25     17:50:15 11 Aug 14   HG
                              1408024-04
Hg    1.08    ppb       .000      1.08
                                                                          =
==============================================================================
*** Sample ID: P001-S001-              Seq:  26     17:53:15 11 Aug 14   HG
                              1408024-05
Hg    .271    ppb       .000      .271
                                                                          =
==============================================================================
*** Sample ID: P001-S005-              Seq:  27     17:55:55 11 Aug 14   HG
                              1408024-07
Hg    .979    ppb       .000      .979
                                                                          =
*** Check Standard: 2  Ck2 CCV         Seq:  28     17:59:14 11 Aug 14   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          95.1    4.76    5.00  ppb         .000
                                                                          =
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 1  Ck1 CCB      Seq:  29      18:01:43 11 Aug 14   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .026     .200     ppb        .000
                                                                          =
*** Sample ID: P001-COMP0           Seq:  30      18:04:42 11 Aug 14   HG
                            1408019-01
Hg    .046    ppb       .000      .046
                                                                          =
=============================================================================
*** Sample ID: P001-DR031           Seq:  31      18:07:37 11 Aug 14   HG
                            1408019-02
Hg   -.074    ppb       .000     -.074
                                                                          =
=============================================================================
*** Sample ID: P001-PL020           Seq:  32      18:10:12 11 Aug 14   HG
                            1408019-03
Hg   -.077    ppb       .000     -.077
                                                                          =
=============================================================================
*** Sample ID: P001-DR031           Seq:  33      18:12:41 11 Aug 14   HG
                            1408019-04
Hg   -.091    ppb       .000     -.091
                                                                          =
*** Sample ID: P001-DR031           Seq:  34      18:15:11 11 Aug 14   HG
                            1408019-05
Hg   -.058    ppb       .000     -.058
                                                                          =
=============================================================================
*** Sample ID: P001-DR070           Seq:  35      18:17:50 11 Aug 14   HG
                            1408019-06
Hg   -.051    ppb       .000     -.051
                                                                          =
=============================================================================
*** Sample ID: P001-DR030           Seq:  36      18:20:30 11 Aug 14   HG
                            1408019-07
Hg   -.012    ppb       .000     -.012
                                                                          =
=============================================================================
*** Sample ID: P001-DR050           Seq:  37      18:23:02 11 Aug 14   HG
                            1408019-08
Hg   -.065    ppb       .000     -.065
                                                                          =
=============================================================================
*** Sample ID: P001-UST01           Seq:  38      18:26:35 11 Aug 14   HG
                            1408019-10
Hg   -.028    ppb       .000     -.028
                                                                          =
=============================================================================
*** Sample ID: IBL                  Seq:  39      18:29:28 11 Aug 14   HG
                            IBL
Hg   -.048    ppb       .000     -.048
                                                                          =
*** Check Standard: 2  Ck2 CCV      Seq:  40      18:32:01 11 Aug 14   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          92.3     4.62    5.00  ppb         .000
                                                                          =
*** Check Standard: 1  Ck1 CCB      Seq:  41      18:34:33 11 Aug 14   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .025     .200     ppb        .000
                                                                          =
```

Folder: V408114B INT
Protocol: INSTIDV4
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 1	16:47:09 11 Aug 14	HG		
Hg	.000	ppb	720	S0	JK 081114			
*** Standard: 2 Rep: 1				Seq: 2	16:49:51 11 Aug 14	HG		
Hg	.200	ppb	2529	S0.2	JK 081114			
*** Standard: 3 Rep: 1				Seq: 3	16:53:15 11 Aug 14	HG		
Hg	.500	ppb	5761	S0.5	JK 081114			
*** Standard: 4 Rep: 1				Seq: 4	16:55:45 11 Aug 14	HG		
Hg	1.00	ppb	9297	S1.0	JK 081114			
*** Standard: 5 Rep: 1				Seq: 5	16:58:15 11 Aug 14	HG		
Hg	5.00	ppb	48173	S5.0	JK 081114			
*** Standard: 6 Rep: 1				Seq: 6	17:00:56 11 Aug 14	HG		
Hg	10.0	ppb	95146	S10.0	JK 081114			
*** Check Standard: 3			Ck3 ICV	Seq: 7	17:03:30 11 Aug 14	HG		
Line	Flag		Intensities					
Hg			38286					
*** Check Standard: 1			Ck1 ~~CCB~~ ICB	Seq: 8	17:05:59 11 Aug 14	HG		
Line	Flag		Intensities					
Hg			443					
*** Check Standard: 4			Ck4 CRI	Seq: 9	17:08:37 11 Aug 14	HG		
Line	Flag		Intensities					
Hg			2356					
*** Check Standard: 2			Ck2 CCV	Seq: 10	17:11:10 11 Aug 14	HG		
Line	Flag		Intensities					
Hg			48238					
*** Check Standard: 1			Ck1 CCB	Seq: 11	17:13:39 11 Aug 14	HG		
Line	Flag		Intensities					
Hg			621					
*** Sample ID: PBSFE				Seq: 12	17:16:30 11 Aug 14	HG		
			4081102-BLK1					
Hg	-.036	ppb	259					
*** Sample ID: MLCSFE				Seq: 13	17:18:59 11 Aug 14	HG		
			4081102-BS1 5X					
Hg	6.42	ppb	61380					
*** Sample ID: MLCSDFE				Seq: 14	17:21:39 11 Aug 14	HG		
			4081102-BSD1 5X					
Hg	6.62	ppb	63247					

INT

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Sample ID: TS-1                    Seq:  15     17:24:11 11 Aug 14   HG
                              1408022-01
Hg    .121    ppb      1740
                                                                          =
==============================================================================
*** Sample ID: BF-1                    Seq:  16     17:27:01 11 Aug 14   HG
                              1408022-02
Hg    .089    ppb      1445
                                                                          =
==============================================================================
*** Sample ID: P001-S002-              Seq:  17     17:29:30 11 Aug 14   HG
                              1408024-01
Hg    .095    ppb      1497
                                                                          =
==============================================================================
*** Sample ID: P001-S003-              Seq:  18     17:32:12 11 Aug 14   HG
                              1408024-02
Hg    .232    ppb      2796
                                                                          =
*** Sample ID: P001-S003-              Seq:  19     17:34:41 11 Aug 14   HG
                              4081102-DUP1
Hg    .190    ppb      2392
                                                                          =
*** Sample ID: P001-S003-              Seq:  20     17:37:15 11 Aug 14   HG
                              4081102-MS1
Hg    1.11    ppb      11125
                                                                          =
*** Sample ID: P001-S003-              Seq:  21     17:39:45 11 Aug 14   HG
                              4081102-MSD1
Hg    1.16    ppb      11598
                                                                          =
*** Check Standard: 2  Ck2 CCV      Seq:  22     17:42:14 11 Aug 14   HG
Line  Flag             Intensities
Hg                     46556
                                                                          =
*** Check Standard: 1  Ck1 CCB      Seq:  23     17:45:13 11 Aug 14   HG
Line  Flag             Intensities
Hg                     578
                                                                          =
*** Sample ID: P001-S003-              Seq:  24     17:47:44 11 Aug 14   HG
                              1408024-03
Hg    .177    ppb      2272
                                                                          =
==============================================================================
*** Sample ID: P001-S006-              Seq:  25     17:50:15 11 Aug 14   HG
                              1408024-04
Hg    1.08    ppb      10800
                                                                          =
==============================================================================
*** Sample ID: P001-S001-              Seq:  26     17:53:15 11 Aug 14   HG
                              1408024-05
Hg    .271    ppb      3166
                                                                          =
==============================================================================
*** Sample ID: P001-S005-              Seq:  27     17:55:55 11 Aug 14   HG
                              1408024-07
Hg    .979    ppb      9860
                                                                          =
*** Check Standard: 2  Ck2 CCV      Seq:  28     17:59:14 11 Aug 14   HG
Line  Flag             Intensities
Hg                     45596
                                                                          =
```

INT

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
================================================================================

*** Check Standard: 1  Ck1 CCB      Seq:  29      18:01:43 11 Aug 14   HG
Line  Flag             Intensities
Hg                     843
                                                                            =
*** Sample ID: P001-COMP0           Seq:  30      18:04:42 11 Aug 14   HG
                            1408019-01
Hg    .046    ppb      1034
                                                                            =
================================================================================
*** Sample ID: P001-DR031           Seq:  31      18:07:37 11 Aug 14   HG
                            1408019-02
Hg   -.074    ppb      -100
                                                                            =
================================================================================
*** Sample ID: P001-PL020           Seq:  32      18:10:12 11 Aug 14   HG
                            1408019-03
Hg   -.077    ppb      -128
                                                                            =
================================================================================
*** Sample ID: P001-DR031           Seq:  33      18:12:41 11 Aug 14   HG
                            1408019-04
Hg   -.091    ppb      -263
                                                                            =
*** Sample ID: P001-DR031           Seq:  34      18:15:11 11 Aug 14   HG
                            1408019-05
Hg   -.058    ppb      53
                                                                            =
================================================================================
*** Sample ID: P001-DR070           Seq:  35      18:17:50 11 Aug 14   HG
                            1408019-06
Hg   -.051    ppb      112
                                                                            =
================================================================================
*** Sample ID: P001-DR030           Seq:  36      18:20:30 11 Aug 14   HG
                            1408019-07
Hg   -.012    ppb      485
                                                                            =
================================================================================
*** Sample ID: P001-DR050           Seq:  37      18:23:02 11 Aug 14   HG
                            1408019-08
Hg   -.065    ppb      -20
                                                                            =
================================================================================
*** Sample ID: P001-UST01           Seq:  38      18:26:35 11 Aug 14   HG
                            1408019-10
Hg   -.028    ppb      337
                                                                            =
================================================================================
*** Sample ID: IBL                  Seq:  39      18:29:28 11 Aug 14   HG
                            IBL
Hg   -.048    ppb      146
                                                                            =
*** Check Standard: 2  Ck2 CCV      Seq:  40      18:32:01 11 Aug 14   HG
Line  Flag             Intensities
Hg                     44290
                                                                            =
*** Check Standard: 1  Ck1 CCB      Seq:  41      18:34:33 11 Aug 14   HG
Line  Flag             Intensities
Hg                     834
                                                                            =
```

Raw Data for:

Instrument: P4

File Name: 4H12001_P-041

Sequence: 4H12001

Analysis: 6010C METALS

Daily Instrument Profile
Nebulizer pressure: 16
Peak position: 0.03104
Peak intensity: 1179.12
Vernier position: 571

Maintenance: NONE

Printed: 8/12/2014 6:28:38 PM

Method(s) (circle one): **ILM05.4** **6010C** **Other** _____

Operator(s): JCF **Date/Time** 081114/1200 **to** 081114/1918

↑	Specified element(s) fail(s) high
↓	Specified element(s) fail(s) low
RR	Re-run sample(s) neat
RR #X	Re-run at a #-fold dilution
#X	Sample run at a #-fold dilution (aliquot of sample diluted with acidified water)
L	Matrix = leachate
W	Matrix = water
S	Matrix = solid
B	Matrix = biological tissue

SDG	Matrix	Comments
1407192	W	Custom complete
1408003	W	Fe
1408004	W	Fe
1408012	S	APP IX - Tl
~~1408013~~		~~JCF 081214~~
~~1408015~~		~~JCF 081214~~
~~1408016~~		~~JCF 081214~~
1408019	S	TAL complete
1408022	S	TAL complete
1408024	S	TAL RR all plus PBW & LCS

ICP Run Log: P4

File Name: 4H12001

Seq	Sample ID	Client ID	Sample Type	DF	Date	Time	Standard #	Action Needed
1	CAL1	S0 BLANK	CALIB STD	1	08/11/14	12:00:21	4H07003	
2	CAL2	S RSTD-1	CALIB STD	1	08/11/14	12:07:34	04	
3	CAL4	S RSTD-3	CALIB STD	1	08/11/14	12:14:48	06	
4	CAL3	S RSTD-2	CALIB STD	1	08/11/14	12:20:28	05	
5	CAL5	S RSTD-4	CALIB STD	1	08/11/14	12:26:55	07	
6	CRL1	LLICV	ICV	1	08/11/14	12:32:35	4D27006	
7	ICV1	ICV1	ICV	1	08/11/14	12:39:48	4F24007	
8	ICB1	ICB	ICB	1	08/11/14	12:47:02	4H07003	
9	IFA1	ICSA	ICS	1	08/11/14	12:54:15	4H12018	

*** Element ID of Reagents/Solvents used:** NA

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Reviewed By: _____ Date: 8/12/14

ICP Run Log: P4

File Name: 4H12001

Seq	Sample ID	Client ID	Sample Type	DF	Date	Time	Standard #	Action Needed
10	IFB1	ICSAB	ICS	1	08/11/14	13:01:27	4H12019	
11	CRL2	LLCCV	CCV	1	08/11/14	13:08:40	4D27006	
12	CCV1	CCV	CCV	1	08/11/14	13:15:53	4E15027	
13	CCB1	CCB	CCB	1	08/11/14	13:23:07	4H07003	
14	HCV1	HRS	HRS	1	08/11/14	13:36:25	4G28039	~~(H-BE)~~ JG08214
15	IBL1	IBL	IBL	1	08/11/14	13:43:38		
16	4080802-BLK1	PBWGM	PBW	1	08/11/14	13:54:29		(L-CO,H-PB,H-SB,H-MO)
17	4080802-BS1	MLCSGZ	SAMPLE	1	08/11/14	14:01:41		
18	4080802-BSD1	MLCSDGZ	SAMPLE	1	08/11/14	14:08:54		
19	1408012-01	CS6A	SAMPLE	1	08/11/14	14:16:06		(H-FE)
20	4H12001-SRD1	CS6AL	SAMPLE	5	08/11/14	14:23:19		
21	4080603-BLK1	PBWGQ	PBW	1	08/11/14	14:30:32		(H-AL,H-B)
22	4080603-BS1	MLCSGQ	SAMPLE	1	08/11/14	14:37:44		(H-AL,H-CA)
23	1407192-01	MW-9	SAMPLE	1	08/11/14	14:44:57		
24	4H12001-CCV2	CCV	CCV	1	08/11/14	14:52:10		
25	4H12001-CCB2	CCB	CCB	1	08/11/14	14:59:29		
26	4080603-DUP1	MW-9D	SAMPLE	1	08/11/14	15:06:43		
27	4080603-MS1	MW-9S	SAMPLE	1	08/11/14	15:13:55		
28	4080603-MSD1	MW-9SD	SAMPLE	1	08/11/14	15:21:08		
29	4H12001-SRD2	MW-9L	SAMPLE	5	08/11/14	15:28:21		
30	4080603-PS1	MW-9A	SAMPLE	1	08/11/14	15:38:33		
31	1407192-02	MW-6	SAMPLE	1	08/11/14	15:45:46		
32	1407192-03	MW-7	SAMPLE	1	08/11/14	15:52:59		
33	1407192-04	MW-8	SAMPLE	1	08/11/14	16:00:12		
34	4H12001-CRL3	LLCCV	CCV	1	08/11/14	16:07:24		
35	4H12001-CCV3	CCV	CCV	1	08/11/14	16:14:38		
36	4H12001-CCB3	CCB	CCB	1	08/11/14	16:21:57		
37	4081101-BLK1	PBSFD	PBS	1	08/11/14	16:31:43		(H-PB,H-SB)
38	4081101-BS1	MLCSFD	SAMPLE	1	08/11/14	16:38:56		
39	4081101-BSD1	MLCSDFD	SAMPLE	1	08/11/14	16:46:09		
40	1408019-01	P001-COMP01-LW	SAMPLE	1	08/11/14	16:53:22		

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Reviewed By: [signature] Date: 8/12/14

ICP Run Log: P4

File Name: 4H12001

Seq	Sample ID	Client ID	Sample Type	DF	Date	Time	Standard #	Action Needed
41	4H12001-SRD3	P001-COMP01-LWL	SAMPLE	5	08/11/14	17:00:34		
42	1408019-02	P001-DR0314-LW	SAMPLE	1	08/11/14	17:07:47		
43	1408019-03	P001-PL0202-SW	SAMPLE	1	08/11/14	17:14:59		
44	1408019-04	P001-DR0310-LW	SAMPLE	1	08/11/14	17:22:12		
45	1408019-05	P001-DR0312-LW	SAMPLE	1	08/11/14	17:29:25		
46	1408019-06	P001-DR0702-LW	SAMPLE	1	08/11/14	17:36:37		
47	4H12001-CCV4	CCV	CCV	1	08/11/14	17:43:51		
48	4H12001-CCB4	CCB	CCB	1	08/11/14	17:51:10		(Q-CO)
49	1408019-07	P001-DR0302-LW	SAMPLE	1	08/11/14	17:58:28		
50	1408019-08	P001-DR0502-LW	SAMPLE	1	08/11/14	18:05:41		
51	1408019-10	P001-UST01-LW	SAMPLE	1	08/11/14	18:12:54		
52	1408022-01	TS-1	SAMPLE	1	08/11/14	18:20:06		
53	4H12001-SRD4	TS-1L	SAMPLE	5	08/11/14	18:27:20		
54	1408022-02	BF-1	SAMPLE	1	08/11/14	18:34:33		
55	1408024-02	P001-S003	SAMPLE	1	08/11/14	18:42:19		
56	4081101-DUP1	P001-S003D	SAMPLE	1	08/11/14	18:49:32		
57	4081101-MS1	P001-S003S	SAMPLE	1	08/11/14	18:56:44		
58	4H12001-CRL4	LLCCV	CCV	1	08/11/14	19:03:57		
59	4H12001-CCV5	CCV	CCV	1	08/11/14	19:11:10		
60	4H12001-CCB5	CCB	CCB	1	08/11/14	19:18:29		(Q-CO)
61	4081101-MSD1	P001-S003SD	SAMPLE	1	08/11/14	19:25:48		
62	4H12001-SRD5	P001-S003L	SAMPLE	1	08/11/14	19:33:00		
63	4081101-PS1	P001-S003A	SAMPLE	1	08/11/14	19:40:13		
64	1408024-01	P001-S002	SAMPLE	1	08/11/14	19:47:25		
65	1408024-03	P001-S003	SAMPLE	1	08/11/14	19:54:38		
66	1408024-04	P001-S006	SAMPLE	1	08/11/14	20:01:51		
67	1408024-05	P001-S001	SAMPLE	1	08/11/14	20:09:03		
68	1408024-07	P001-S005	SAMPLE	1	08/11/14	20:16:16		(H-FE) ↑ RR 104
69	1408024-07RE1	P001-S005	SAMPLE	10	08/11/14	20:23:29		(H-FE) ↑ RR 104
70	4080806-BLK1	PBWFC	PBW	1	08/11/14	20:30:42		(L-CO)
71	4H12001-CCV6	CCV	CCV	1	08/11/14	20:37:55		(Q-SE,Q-AS) RR

Fail JCL 08/12/14

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Reviewed By: [signature] Date: 8/12/14

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 1 of 3 CompuChem a division of Liberty Analytical Corp. Worksheet 1 P(6) R5

STANDARDS and REAGENTS TRACEABILITY

Seq. File Name: 4H07017, 4H12001

	Ref #*	Manufacturer	Lot #	Expiration Date
HNO_3 [Baker Instra-analyzed Trace-Metals grade]		EMD		
HCl [Baker Instra-analyzed Trace-Metals grade]		Caledon		
SM-770-027 multi-element standard mix (RSTD-1)	4E12003	High Purity	1410802	04/22/15
SM-770-028 part A multi-element standard mix (RSTD-2A)	3J05001	High Purity	1326610	09/25/14
SM-770-028 part B multi-element standard mix (RSTD-2B)	3J05002	High Purity	1326611	09/25/14
SM-770-029 part A multi-element standard mix (RSTD-3A)	4D06003	High Purity	1331807	03/12/15
SM-770-029 part B multi-element standard mix (RSTD-3B)	3E16001	High Purity	1308703	11/09/14
SM-770-030 multi-element standard mix (RSTD-4)	4E12005	High Purity	1410805	04/22/15
SPEX-R multi-element standard mix	4E12004	High Purity	1410803	4/22/15
ICP-AES-CRQL multi-element standard mix	3L09046	High Purity	1333613	12/04/14
ICCV-6 multi-element standard mix	3I18011	Inorganic Ventures	G2-MEB487118	09/01/14
ICCV-4 multi-element standard mix	4D01014	Inorganic Ventures	H2-MEB522016	05/01/15
ICSA multi-element standard mix	3L30007	Inorganic Venture	G2-MEB491156	01/01/15
ICSB multi-element standard mix	4H12017	Inorganic Venture	G2-MEB486056	08/01/15
ARSENIC (As) 1,000 PPM single-element standard	3L09033	High Purity	1326201	05/27/15
SM-770-020 Internal Standard Mix	4B03017	High Purity	1336413	01/02/15
SM-770-045 LRS 6010C (Soln A)	3L09047	High Purity	1333611	12/04/14
SM-770-045 LRS 6010C (Soln B)	3L09048	High Purity	1333612	12/04/14

Multi-Element Stock Standard Concentrations:

Stock Standard	Analyte Concentrations (µg/mL)
RSTD-1 multi-element standard mix	Cd:1,000 Cr:1,000 Cu:1,000 Pb:1,000 Ni:1,000 Se:1,000 Ag:100 Tl:1,000 Zn:1,000
RSTD-2A/2B multi-element standard mix	Part A: As:1,000 Ba:1,000 Be:1,000 Co:1,000 Mn:1,000 Mo:1,000 V:1,000 Part B: Fe:25,000
RSTD-3A/3B multi-element standard mix	Part A: Ca:10,000 Mg:10,000 K:10,000 Na:10,000 Part B: Al:10,000
RSTD-4 multi-element standard mix	Sb:1,000 Bi:1,000 B:1,000 Sn:1,000 Tl:1,000
SPEX-R multi-element standard mix	Mo:1,000 Sn:1,000 Bi:1,000 Tl:1,000 B:1,000
ICP-AES-CRQL-R multi-element standard mix	Ag:10 Be:5 Cd:5 Co:50 Cr:10 Cu:25 Mn:15 Ni:40 Tl:25 V:50 Zn:60 Pb:10 Se:35 As:10 Sb:60
LRS 6010C multi-element standard mix	Al:200 Ba:200 K:5000 Mg:5000 Na:5000 Ca:5000 Ag:5 Be:5 Cd:5 Co:20 Cr:10 Cu:5 Fe:200 Mn:10 Ni:10 Tl:30 V:20 Zn:30 Pb:10 Se:5 As:10 Mo:50 Sn:50 Bi:20 Tl:50 Sb:30 B:50
SM-770-020 Internal Standard Mix	Li:50,000 Y:250
IICCV-6 multi-element standard mix	Ca: 1,100 K:1,100 Na:1,100 Mg:600 Fe:510 Al:260 As:110 B:110 Pb:110 Se:110 Tl:110 Zn:110 Ag:55 Ba:55 Cd:55 Co:55 Cr:55 Cu:55 Mn:55 Ni:55 V:55
IICCV-4 multi-element standard mix	Mo:110 Sb:110 Sn:110 Tl:110
IICSA multi-element standard mix	Al:5,000 Ca:5,000 Mg:5,000 Fe:2,000
IICSB multi-element standard mix	Cd:100 Ni:100 Zn:100 Sb:60 Ba:50 Be:50 Co:50 Cr:50 Cu:50 Mn:50 V:50 Ag:20 As:10 Tl:10 Pb:5 Se:5

Entered By: _____

Reviewed By: _____ Date: 8/12/14

*Ref# = Logbook ID, Page number, and item number from Materials Receipt Log

**High Purity is abbreviated "HP" on reporting forms

10/17/11: jcf/v

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 2 of 3 CompuChem a division of Liberty Analytical Corp. Worksheet 1 P(6) R5

Standard Lot Number*	LIMS ID Number	Preparation Instructions	Resultant Analyte Conc. (µg/L)
S0/ICB/CCB– 080714 - JCF	4 H 0 7 0 0 3	Place in a 500 mL volumetric flask: 100 mL deionized water, 20 mL concentrated HNO_3, and 100 mL concentrated HCl. Bring up to volume with deionized water. Transfer to a 2L Teflon bottle and add 1.5L deionized water. Final volume 2 L. Prepare as needed.	N/A
RSTD-1– 080714 - JCF	4 H 0 7 0 0 4	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL RSTD-1 into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	Cd:2,000 Cr:2,000 Cu:2,000 Pb:2,000 Ni:2,000 Se:2,000 Ag:200 Tl:2,000 Zn:2,000
RSTD-2– 080714 - JCF	4 H 0 7 0 0 5	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL each RSTD-2A and RSTD-2B into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	As:2,000 Ba:2,000 Be:2,000 Co:2,000 Fe:50,000 Mn:2,000 Mo:2,000 V:2,000
RSTD-3– 080714 - JCF	4 H 0 7 0 0 6	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 2.0 mL each RSTD-3A and RSTD-3B into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	K:100,000 Na:100,000 Al:100,000 Mg:100,000 Ca:100,000
RSTD-4– 080714 - JCF	4 H 0 7 0 0 7	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL RSTD-4 into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	Sn:2,000 Bi:2,000 Tl:2,000 Sb:2,000 B:2,000
ICV1– 061914 - JCF	4 F 2 0 0 0 7	Place in a 500 mL volumetric flask: 300 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 5.0 mL ICCV-3 into flask and 5.0 mL ICCV-4. Bring up to volume with deionized water. Transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Al:2,600 Ba:550 K:11,000 Mg:6,100 Na:11,000 Ca:11,000 Ag:550 Be:550 Cd:550 Co:550 Cr:550 Cu:550 Fe:5,100 Mn:550 Ni:550 Tl:1,100 V:550 Zn:1,100 Pb:1100 Se:1,100 As:1,100 Sb:1,100 Mo:1,100 Sn:1,100 Bi:1,100 Ti:1,100 B:1,100
CCV– 051414-JCF	4 E 1 5 0 2 7	Place in a 500-mL volumetric flask: 300 mL deionized water, 20 mL concentrated HNO_3, and 100 mL concentrated HCl. Add 20 ml of SM-770-40 Soln A and Soln B. Bring up to volume with deionized water. Transfer to a 2000mL Teflon bottle and add 1.5 L of deionized water. Prepare as needed.	Al:50,000 Ba:1,000 K:50,000 Mg:50,000 Na:50,000 Ca:50,000 Ag:100 Be:1,000 Cd:1,000 Co:1,000 Cr:1,000 Cu:1,000 Fe:25,000 Mn:1,000 Ni:1,000 Tl:1,000 V:1,000 Zn:1,100 Pb:1,000 Se:1,000 As:1,000 Mo:1,000 Sn:1,000 Bi:1,000 Ti:1,000 Sb:1,000 B:1,000
LLICV/LLCCV/LRS 6010C-042714-JC F	4 D 2 7 0 0 6	In a 500 mL volumetric flask, combine 200 mL deionized water, 5 mL concentrated HNO_3 and 25 mL concentrated HCl. Pipet 0.5 mL of each LRS 6010C Soln A and Soln B. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Al:200 Ba:200 K:5000 Mg:5000 Na:5000 Ca:5000 Ag:5 Be:5 Cd:5 Co:20 Cr:10 Cu:5 Fe:200 Mn:10 Ni:10 Tl:30 V:20 Zn:30 Pb:10 Se:5 As:10 Mo:50 Sn:50 Bi:20 Ti:50 Sb:30 B:50

Standard Solutions Prepared By: _____

Entered By: _____

Reviewed By: _____ Date: 8/12/14

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 3 of 3 CompuChem a division of Liberty Analytical Corp. Worksheet 1 P(6) R5

Standard Lot Number*	LIMS ID Number	Preparation instructions	Resultant Analyte Conc. (µg/L)
As- 020414-JCF	4B04002	In a 100 mL volumetric flask, combine 50 mL deionized water, 1 mL concentrated HNO_3, 5 mL concentrated HCl, and 0.1 mL 1000-ppm As standard. Bring to final 100 mL volume	As:1,000
ICSA- 080614-JCF	4H12018	In a 500-mL volumetric flask, combine 350 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 25.0 mL ICSA into flask. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL.	Al:250,000 Ca:250,000 Fe:100,000 Mg:250,000
ICSAB- 080614-JCF	4H12019	In a 500-mL volumetric flask, combine 350 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 25.0 mL ICSA and 5.0 mL ICSB and 0.5 mL of Compuchem SPEX into flask. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL.	Ag:200 Al:250,000 Ba:500 Be:500 Ca:250,000 Cd:1000 Co:500 Cr:500 Cu:50 Fe:100,000 Mg:250,000 Mn:500 Ni:1000 Tl:100 V:500 Zn:1000 Pb:80 Se:50 Sb:600 As:100 Sn:1,000 Bi:1,000 Mo:1,000 Ti:1,000 B:1,000
HRS – 072814-JCF	4G28039	In a 100 mL volumetric flask, combine 50 mL deionized water, 1mL concentrated HNO_3, and 5 mL concentrated HCl. Pipet 1.6 mL of RSTD-2A, 2.0 mL RSTD-1, RSTD-2B, RSTD-3A, RSTD-3B and RSTD - 4 into flask. Bring up to 100 mL volume with deionized water. Prepare as needed.	Al:200,000 Ba:20,000 K:200,000 Mg:200,000 Na:200,000 Ca:200,000 Ag:2,000 Be:20,000 Cd:20,000 Co:20,000 Cr:20,000 Cu:20,000 Fe:200,000 Mn:20,000 Ni:20,000 Tl:20,000 V:20,000 Zn:20,000 Pb:20,000 Se:20,000 As:20,000 Mo:20,000 Sn:20,000 Bi:20,000 Ti:20,000 Sb:20,000 B:20,000
EPA-CRI- 061314-JCF	4F13011	In a 500 mL volumetric flask, combine 300 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 0.50 mL ICP-AES-CRQL-R and 25 µL Compuchem SPEX-R into flask. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Ag:10 Be:5 Cd:5 Co:50 Cr:10 Cu:25 Mn:15 Ni:40 Tl:25 V:50 Zn:60 Pb:10 Se:35 As:10 Sb:60 Sn:50 B:50 Mo:50 Bi:50 Ti:50
P4RINSE- 061314-JCF	4F13013	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P5RINSE- NA	N A	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P4INTSTD- 061314-JCF	4F13013	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000
P5INTSTD- NA	N A	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000

Standard Solutions Prepared By: _____

Entered By: _____

Reviewed By: _____ Date: 8/12/14

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

10/17/11: jcf/v

METHOD: P4S12014 STANDARD: S0 BLANK
RUN TIME: 08/11/14 12:00:21

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
AVGE	.20366	.00539	.00277	-.00587	.04242	.01724	.01078
SDEV	.01504	.00003	.00001	.00031	.00089	.00006	.00010
%RSD	7.3868	.65681	.26871	5.3340	2.1022	.36512	.93288
#1	.21799	.00538	.00276	-.00592	.04245	.01719	.01071
#2	.18799	.00536	.00277	-.00615	.04329	.01721	.01090
#3	.20499	.00543	.00278	-.00553	.04151	.01731	.01073

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
AVGE	.00006	.70463	-.00002	.00397	-.00172	.00012	.00084
SDEV	.00002	.01185	.00004	.00026	.00011	.00001	.00002
%RSD	34.979	1.6811	218.07	6.4947	6.6304	10.225	2.0499
#1	.00008	.71196	-.00002	.00401	-.00167	.00012	.00084
#2	.00004	.69097	-.00007	.00421	-.00186	.00013	.00086
#3	.00007	.71096	.00002	.00369	-.00165	.00010	.00083

ELEM	NI2316	TL1908	V_2924	ZN2062	SB2068	AS1890	22031
AVGE	-.00005	-.00016	-.00001	.00012	.00026	-.00021	-.04181
SDEV	.00014	.00022	.00002	.00001	.00014	.00036	.00042
%RSD	278.67	136.67	217.04	6.2143	54.787	169.44	1.0078
#1	-.00009	-.00032	-.00002	.00013	.00041	-.00016	-.04224
#2	-.00017	-.00025	-.00003	.00011	.00025	-.00059	-.04139
#3	.00010	.00009	.00002	.00012	.00013	.00012	-.04180

ELEM	22032	19601	19602	SN1899	MO2020	TI3349	B_2496
AVGE	.00177	-.00107	.00072	.00010	-.00005	.00061	.00191
SDEV	.00066	.00110	.00009	.00023	.00002	.00025	.00036
%RSD	37.525	102.89	12.869	222.39	42.001	40.822	18.632
#1	.00181	-.00167	.00083	.00034	-.00007	.00080	.00158
#2	.00241	.00020	.00067	.00008	-.00007	.00033	.00187
#3	.00108	-.00174	.00067	-.00012	-.00003	.00071	.00229

METHOD: P4S12014 STANDARD: S RSTD-1
RUN TIME: 08/11/14 12:07:34

ELEM	AG3280	CD2265	CR2677	CU3247	NI2316	TL1908	ZN2062
AVGE	5.9324	1.5292	.18424	81.012	.34180	.17440	.10065
SDEV	.0372	.0352	.00433	.375	.00764	.00243	.00248
%RSD	.62760	2.2992	2.3481	.46342	2.2343	1.3956	2.4642
#1	5.9747	1.5683	.18900	81.443	.35031	.17705	.10335
#2	5.9177	1.5003	.18055	80.754	.33554	.17226	.09847
#3	5.9047	1.5190	.18317	80.840	.33955	.17391	.10013

ELEM	22031	22032	19601	19602
AVGE	1.4007	.63120	.45496	.50053
SDEV	.0174	.01249	.00424	.00831
%RSD	1.2416	1.9785	.93159	1.6608
#1	1.4192	.64512	.45983	.50991
#2	1.3847	.62097	.45217	.49407
#3	1.3984	.62750	.45287	.49760

METHOD: P4S12014 STANDARD: S RSTD-3
RUN TIME: 08/11/14 12:14:48

ELEM	AL3082	CA3179	K_7664	MG2790	NA3302
AVGE	1.2650	3.4571	8.8712	2.2306	.08507
SDEV	.0042	.0108	.0196	.0037	.00046
%RSD	.33205	.31330	.22090	.16461	.53945
#1	1.2601	3.4462	8.8494	2.2292	.08454
#2	1.2672	3.4679	8.8875	2.2347	.08537
#3	1.2676	3.4570	8.8765	2.2277	.08529

METHOD: P4S12014 STANDARD: S RSTD-2
RUN TIME: 08/11/14 12:20:28

ELEM	BA4934	BE3130	CO2286	FE2714	MN2576	V_2924	AS1890
AVGE	.63819	.21024	.21160	.21566	.17770	.10535	.36050
SDEV	.00489	.00239	.00138	.00131	.00090	.00047	.00319
%RSD	.76558	1.1366	.65391	.60970	.50883	.44096	.88449
#1	.64372	.21280	.21266	.21663	.17821	.10586	.36400
#2	.63641	.20806	.21003	.21416	.17666	.10496	.35776
#3	.63444	.20987	.21210	.21618	.17824	.10522	.35976

ELEM	MO2020
AVGE	.13081
SDEV	.00076
%RSD	.58047
#1	.13081
#2	.13005
#3	.13157

METHOD: P4S12014 STANDARD: S RSTD-4
RUN TIME: 08/11/14 12:26:55

ELEM	SB2068	SN1899	TI3349	B 2496
AVGE	.15666	.24557	1.0479	.77895
SDEV	.00329	.00335	.0081	.01367
%RSD	2.1015	1.3651	.77266	1.7544
#1	.15320	.24209	1.0401	.76485
#2	.15705	.24585	1.0472	.77987
#3	.15975	.24877	1.0563	.79213

ANALYSIS REPORT QC STANDARD 08/11/14 12:39:45 PM PAGE 1

METHOD: P4S12014 SAMPLE NAME: LLICV OPERATOR:
RUN TIME: 08/11/14 12:32:35
COMMENT: LICV
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	5.256509	219.6035	201.6803	5.080477	5116.505	4.630739	18.98032
SDEV	.386023	5.5409	2.7173	.688036	20.916	.162285	.80369
%RSD	7.343723	2.523127	1.347342	13.54275	.4088002	3.504518	4.234332
#1	5.663703	225.8605	204.3167	4.531213	5133.173	4.773155	19.86330
#2	5.209942	217.6322	201.8355	4.857992	5093.034	4.454057	18.78619
#3	4.895881	215.3179	198.8887	5.852227	5123.307	4.665003	18.29148
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	20.00000
RANGE	1.500000	60.00000	60.00000	1.500000	1500.000	1.500000	6.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.218297	5.123374	170.1977	5281.170	5058.074	9.972319	5052.315
SDEV	.319826	.865599	4.9340	48.569	22.835	.187561	103.742
%RSD	3.469469	16.89510	2.898958	.9196550	.4514641	1.880818	2.053362
#1	9.254090	4.202237	173.9042	5336.015	5084.230	10.04167	5168.472
#2	9.518721	5.247950	164.5974	5263.896	5047.887	10.11533	4968.878
#3	8.882080	5.919936	172.0915	5243.600	5042.105	9.759958	5019.592
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	5.000000	200.0000	5000.000	5000.000	10.00000	5000.000
RANGE	3.000000	1.500000	60.00000	1500.000	1500.000	3.000000	1500.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.15254	28.16596	20.25000	28.83278	9.142159	9.487626	33.24052
SDEV	.08520	2.43375	.62500	.26115	.385347	1.714012	1.71419
%RSD	.8391623	8.640751	3.086418	.9057297	4.215056	18.06577	5.156943
#1	10.07272	30.10486	20.80477	28.60168	8.726296	8.096015	33.53318
#2	10.24225	28.95823	20.37235	28.78058	9.213031	11.40220	34.78954
#3	10.14265	25.43479	19.57287	29.11609	9.487151	8.964661	31.39883
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	30.00000	20.00000	30.00000	10.00000	10.00000	30.00000
RANGE	3.000000	9.000000	6.000000	9.000000	3.000000	3.000000	9.000000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.824282	11.47595	7.976930	16.30745	6.082758	52.56515	51.03158
SDEV	1.513589	1.04553	.802611	.94443	3.024410	2.63943	2.39663
%RSD	15.40662	9.110607	10.06166	5.791396	49.72103	5.021259	4.696363
#1	11.27355	11.11839	7.531957	16.81924	3.740875	54.33828	53.79897
#2	9.945611	12.65335	7.495368	15.21759	9.497300	53.82536	49.64864
#3	8.253679	10.65611	8.903465	16.88553	5.010099	49.53182	49.64713
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	10.00000					50.00000	50.00000
RANGE	3.000000					15.00000	15.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	50.32642	51.49603	179972.5
SDEV	.20070	2.15128	1864.5
%RSD	.3987917	4.177560	1.035971
#1	50.33259	53.97955	177851.0
#2	50.52396	50.29980	180715.8
#3	50.12270	50.20873	181350.6
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	50.00000	50.00000	
RANGE	15.00000	15.00000	

METHOD: P4S12014 SAMPLE NAME: ICV1 OPERATOR:
RUN TIME: 08/11/14 12:39:48
COMMENT: ICV1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	554.1691	2826.443	550.7710	548.2739	11533.51	558.5323	544.7872
SDEV	.7930	9.844	5.3437	2.1686	47.17	1.4550	4.3595
%RSD	.1430882	.3482737	.9702168	.3955397	.4090252	.2605126	.8002260
#1	554.8905	2830.189	556.3912	549.0455	11537.02	560.1133	545.5728
#2	553.3201	2815.276	545.7553	545.8249	11484.68	557.2493	540.0883
#3	554.2966	2833.864	550.1664	549.9512	11578.83	558.2346	548.7006
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	550.0000	2600.000	550.0000	550.0000	11000.00	550.0000	550.0000
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	554.4485	551.9234	5165.035	11587.40	6117.305	549.8052	11556.98
SDEV	3.6074	.7643	32.649	46.12	25.375	3.1394	127.55
%RSD	.6506339	.1384728	.6321240	.3980454	.4148006	.5710038	1.103653
#1	557.7170	552.4714	5173.311	11614.17	6122.634	550.5953	11703.73
#2	550.5779	551.0503	5129.044	11534.14	6089.690	546.3462	11494.37
#3	555.0506	552.2485	5192.750	11613.89	6139.592	552.4741	11472.83
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	550.0000	550.0000	5100.000	11000.00	6100.000	550.0000	11000.00
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	553.8402	1112.256	537.1571	1134.253	1099.205	1092.542	1119.314
SDEV	1.6432	9.533	2.9385	9.122	3.770	10.887	9.566
%RSD	.2966890	.8570682	.5470513	.8041895	.3429910	.9965000	.8546568
#1	555.7332	1104.594	537.3001	1133.176	1094.872	1082.226	1128.569
#2	553.0058	1109.242	534.1497	1125.717	1101.003	1103.922	1109.465
#3	552.7816	1122.931	540.0215	1143.865	1101.738	1091.477	1119.909
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	550.0000	1100.000	550.0000	1100.000	1100.000	1100.000	1100.000
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1064.441	1101.453	1098.082	1109.338	1084.156	1117.237	1097.040
SDEV	2.950	1.527	4.959	8.180	12.851	7.310	6.085
%RSD	.2771580	.1386177	.4516315	.7373874	1.185338	.6542537	.5547079
#1	1066.092	1099.770	1092.427	1104.996	1070.858	1118.073	1093.369
#2	1066.196	1102.749	1100.132	1118.774	1096.507	1109.545	1093.687
#3	1061.034	1101.839	1101.688	1104.245	1085.103	1124.092	1104.064
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1100.000					1100.000	1100.000
RANGE	10.40000					10.40000	10.40000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1102.996	1103.000	182449.7
SDEV	3.433	.269	257.9
%RSD	.3112492	.0243916	.1413376
#1	1106.289	1102.792	182396.4
#2	1099.438	1102.904	182730.1
#3	1103.262	1103.304	182222.7
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1100.000	1100.000	
RANGE	10.40000	10.40000	

METHOD: P4S12014 SAMPLE NAME: ICB OPERATOR:
RUN TIME: 08/11/14 12:47:02
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.302611	12.46428	-.001265	-.470206	-16.1215	.0566082	1.491763
SDEV	.545286	3.90607	.131619	.714194	23.2658	.0949282	.115655
%RSD	180.1936	31.33810	10406.25	151.8898	144.3158	167.6933	7.752928
#1	-.930953	16.53521	-.152164	-1.27879	-42.8350	.1653472	1.546307
#2	-.023460	12.11050	.0898529	.0745058	-5.23195	.0142064	1.570061
#3	.0465794	8.747142	.0585169	-.206333	-.297421	-.009729	1.358922
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	2.500000	100.0000	100.0000	2.500000	2500.000	2.500000	10.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2797932	.8136700	16.41391	6.884051	8.698889	.0145275	46.60675
SDEV	.6730675	.4472656	1.31318	2.276072	5.180120	.1968445	224.0899
%RSD	240.5589	54.96891	8.000388	33.06297	59.54922	1354.979	480.8100
#1	-.496608	.3071898	16.47646	4.773555	2.741782	-.209940	-82.3305
#2	.6983448	1.154402	17.69469	9.295713	11.21021	.0958000	305.3630
#3	.6376424	.9794179	15.07057	6.582885	12.14467	.1577223	-83.2122
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	2.500000	100.0000	2500.000	2500.000	5.000000	2500.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5304250	1.513075	.3521383	.4289604	-.987640	-1.25266	-.013296
SDEV	.1031545	1.007153	.7076672	.1118741	2.127461	.22557	.799353
%RSD	19.44751	66.56333	200.9629	26.08029	215.4085	18.00728	6011.940
#1	.4561404	1.236228	.1081368	.4431596	-1.70260	-1.47236	.5025094
#2	.6482034	2.629698	1.149521	.5330570	1.405206	-1.02165	-.934090
#3	.4869311	.6732988	-.201243	.3106645	-2.66553	-1.26396	.3916920
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	15.00000	10.00000	15.00000	5.000000	5.000000	15.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.299424	-1.83256	-.565895	-.365054	-1.69586	1.429846	4.361962
SDEV	2.243662	2.95332	1.721210	6.634728	3.06267	.760011	1.127338
%RSD	172.6659	161.1580	304.1571	1817.466	180.5965	53.15332	25.84474
#1	-1.23290	-3.03984	-1.03507	-2.62042	-.899266	1.923190	5.227292
#2	3.039434	1.533135	1.341255	7.103338	-5.07812	1.811725	4.771492
#3	2.091736	-3.99098	-2.00387	-5.57808	.8897988	.5546243	3.087101
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	5.000000					10.00000	10.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.1395885	2.215791	181777.8
SDEV	.3516332	.347837	845.8
%RSD	251.9070	15.69811	.4653038
#1	-.258762	2.525314	180802.2
#2	.2706958	2.282699	182224.9
#3	.4068322	1.839360	182306.2
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	10.00000	

METHOD: P4S12014 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 08/11/14 12:54:15
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.569458	268100.3	.4727439	2.064063	257246.7	-.045953	4.200602
SDEV	.213351	551.4	.1360483	.690865	494.6	.055913	.750436
%RSD	37.46560	.2056737	28.77844	33.47110	.1922657	121.6740	17.86497
#1	-.336664	268373.9	.4743184	1.293873	257791.7	-.107906	4.432303
#2	-.755668	267465.6	.3359152	Q2.629157	256826.4	.0007591	4.807862
#3	-.616043	268461.4	.6079981	2.269159	257121.9	-.030712	3.361639
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	250000.0	.0000000	.0000000	250000.0	.0000000	.0000000
RANGE	2.500000	50000.00	100.0000	2.500000	50000.00	2.500000	10.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.223421	.9855708	93916.70	-1.43011	259134.1	1.056896	31.71313
SDEV	.449362	.1276344	202.47	4.49354	464.6	.252226	105.0565
%RSD	201.1284	12.95030	.2155796	314.2085	.1792946	23.86481	331.2713
#1	-.740648	1.126505	93782.82	.7954857	259358.6	1.315893	-1.87850
#2	.0710179	.9524351	94149.62	-6.60209	259443.7	.8120356	149.4573
#3	-.000632	.8777720	93817.67	1.516265	258599.8	1.042760	-52.4394
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	100000.0	.0000000	250000.0	.0000000	.0000000
RANGE	5.000000	2.500000	20000.00	2500.000	50000.00	5.000000	2500.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.087699	12.61821	-4.56577	1.286257	4.152287	-1.59331	.5097889
SDEV	.634391	.21467	.32495	.492963	1.499965	.50800	3.691754
%RSD	58.32411	1.701295	7.117108	38.32538	24.38061	31.88358	724.1731
#1	1.530239	12.37513	-4.93717	1.323351	4.405575	-1.03924	1.961771
#2	1.371968	12.69769	-4.42633	.7757947	2.541804	-1.70354	-3.68720
#3	.3608893	12.78181	-4.33381	1.759624	Q5.509483	-2.03714	3.254801
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	15.00000	10.00000	15.00000	5.000000	5.000000	15.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-3.21143	-3.87169	11.15668	7.305053	-6.03588	.7086045	-2.27713
SDEV	1.34781	2.26393	2.08207	4.527458	2.98671	2.241848	1.56763
%RSD	41.96899	58.47402	18.66214	61.97707	49.48251	316.3751	68.84251
#1	-3.02489	-6.09889	12.64835	3.263619	-3.18751	1.452077	-.803029
#2	-4.64279	-3.94345	8.777985	6.453840	-5.77618	2.484266	-2.10438
#3	-1.96661	-1.57273	12.04370	12.19770	-9.14396	-1.81053	-3.92399
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	5.000000					25.00000	25.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	-.706033	7.250307	175724.9
SDEV	.064957	.312530	1184.9
%RSD	9.200313	4.310572	.6743048
#1	-.633966	6.999647	175865.7
#2	-.760072	7.150798	174475.9
#3	-.724062	7.600474	176833.1
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	25.00000	25.00000	

ANALYSIS REPORT QC STANDARD 08/11/14 01:08:37 PM PAGE 1

METHOD: P4S12014 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 08/11/14 13:01:27
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	196.8037	264964.4	507.6128	490.6417	254274.7	970.5545	487.1690
SDEV	.4076	366.8	.4583	1.3814	752.8	6.4311	5.8938
%RSD	.2070878	.1384196	.0902913	.2815496	.2960701	.6626175	1.209804
#1	197.2458	264759.6	507.1948	492.2368	253576.2	963.4435	481.6472
#2	196.4429	264745.8	508.1029	489.8435	254175.7	972.2570	486.4850
#3	196.7225	265387.8	507.5409	489.8447	255072.1	975.9630	493.3750
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	200.0000	250000.0	500.0000	500.0000	250000.0	1000.000	500.0000
RANGE	40.00000	50000.00	100.0000	100.0000	50000.00	2000.000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	489.9114	494.4023	93001.70	8.429460	255723.7	493.2118	600.4078
SDEV	3.1109	.3743	651.74	1.719092	1977.5	3.8983	74.1060
%RSD	.6349952	.0757071	.7007830	20.39385	.7733141	.7903838	12.34261
#1	490.7139	493.9710	92406.23	6.607218	253825.3	491.5849	559.8180
#2	486.4779	494.5934	92900.90	8.658782	255573.9	490.3906	555.4644
#3	492.5424	494.6424	93697.97	10.02238	257771.9	497.6600	685.9412
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	500.0000	500.0000	100000.0	.0000000	250000.0	500.0000	.0000000
RANGE	100.0000	100.0000	20000.00	2500.000	50000.00	100.0000	2500.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	972.8490	111.4477	479.3201	990.2409	52.75815	44.19792	615.5884
SDEV	7.1340	3.8419	1.0587	10.7369	2.32945	2.35597	4.7179
%RSD	.7333102	3.447244	.2208719	1.084271	4.415341	5.330510	.7664022
#1	965.7883	114.8594	480.1030	980.1539	50.19528	43.00724	610.5649
#2	972.7046	112.1976	479.7418	989.0417	54.74677	46.91159	619.9255
#3	980.0541	107.2862	478.1156	1001.527	53.33240	42.67493	616.2747
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	100.0000	500.0000	1000.000	50.00000	50.00000	600.0000
RANGE	200.0000	20.00000	100.0000	200.0000	10.00000	10.00000	120.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	93.71288	48.17425	55.04658	51.32687	40.63872	981.9275	954.1994
SDEV	1.96684	2.42622	2.67658	5.70635	2.22079	7.8042	4.3051
%RSD	2.098793	5.036348	4.862387	11.11767	5.464705	.7947791	.4511751
#1	91.76001	46.66785	51.95626	52.80384	38.11621	973.7164	949.3062
#2	93.68525	50.97308	56.63070	56.14954	42.29947	982.8176	955.8867
#3	95.69340	46.88181	56.55277	45.02724	41.50047	989.2484	957.4053
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	100.0000					1000.000	1000.000
RANGE	20.00000					200.0000	200.0000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	977.2115	1009.232	173661.5
SDEV	2.5311	9.427	1140.9
%RSD	.2590154	.9340292	.6569770
#1	980.0256	999.0204	174964.4
#2	976.4882	1011.075	173178.9
#3	975.1208	1017.601	172841.2
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	200.0000	200.0000	

ANALYSIS REPORT QC STANDARD 08/11/14 01:15:50 PM PAGE 1

METHOD: P4S12014 SAMPLE NAME: LLCCV OPERATOR:
RUN TIME: 08/11/14 13:08:40
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	5.303021	234.4496	197.8605	4.355975	5046.186	5.343578	21.62828
SDEV	.349667	9.0875	.3285	.592907	33.387	.426732	.53200
%RSD	6.593723	3.876082	.1660358	13.61136	.6616353	7.985880	2.459764
#1	4.965552	231.6579	198.0449	3.689463	5077.218	5.071526	22.07163
#2	5.663726	227.0855	197.4812	4.824731	5050.482	5.123809	21.03835
#3	5.279785	244.6054	198.0555	4.553731	5010.859	5.835400	21.77486
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	20.00000
RANGE	1.500000	60.00000	60.00000	1.500000	1500.000	1.500000	6.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.863199	5.455518	182.4544	5178.105	5025.579	9.887221	5070.784
SDEV	.677065	.554883	12.1154	23.238	21.399	.027625	52.236
%RSD	6.864553	10.17105	6.640247	.4487743	.4257981	.2793994	1.030141
#1	9.386739	5.098589	170.1346	5204.661	5028.061	9.856348	5019.938
#2	9.564628	6.094794	182.8741	5161.497	5003.047	9.909605	5068.108
#3	10.63823	5.173171	194.3545	5168.157	5045.628	9.895711	5124.307
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	5.000000	200.0000	5000.000	5000.000	10.00000	5000.000
RANGE	3.000000	1.500000	60.00000	1500.000	1500.000	3.000000	1500.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.13381	27.35282	20.46114	29.54615	8.886799	9.845530	29.45155
SDEV	.29349	2.51722	.21636	.21903	.509649	3.387819	3.41616
%RSD	2.896158	9.202780	1.057432	.7413137	5.734901	34.40971	11.59925
#1	10.45120	30.15899	20.48843	29.79846	8.435729	12.96265	25.88375
#2	9.872243	25.29365	20.66257	29.40494	8.785006	Q6.240021	29.77833
#3	10.07797	26.60582	20.23243	29.43504	9.439663	10.33392	32.69258
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	30.00000	20.00000	30.00000	10.00000	10.00000	30.00000
RANGE	3.000000	9.000000	6.000000	9.000000	3.000000	3.000000	9.000000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	11.14592	10.94024	7.861533	14.58357	7.479993	50.77449	52.41254
SDEV	2.28625	2.55474	2.029243	2.14484	4.095523	2.42424	1.46589
%RSD	20.51197	23.35174	25.81231	14.70721	54.75303	4.774526	2.796829
#1	Q13.65253	13.54355	5.885565	16.95930	10.96725	48.11308	53.70309
#2	10.60999	10.84018	7.758879	12.78968	2.970032	51.35379	52.71578
#3	9.175246	8.437012	9.940154	14.00174	8.502701	52.85660	50.81874
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	10.00000					50.00000	50.00000
RANGE	3.000000					15.00000	15.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	49.75451	51.14552	179967.7
SDEV	.20901	.39760	1117.9
%RSD	.4200818	.7773995	.6211811
#1	49.52504	50.92115	178761.3
#2	49.80451	50.91081	180968.7
#3	49.93399	51.60459	180173.0
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	50.00000	50.00000	
RANGE	15.00000	15.00000	

ANALYSIS REPORT QC STANDARD 08/11/14 01:23:03 PM PAGE 1

METHOD: P4S12014 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 08/11/14 13:15:53
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	99.67409	54734.92	998.0471	990.8859	51675.32	1005.713	979.7557
SDEV	.23144	38.85	15.4100	5.8063	244.92	1.454	3.3013
%RSD	.2321997	.0709830	1.544019	.5859673	.4739579	.1445798	.3369542
#1	99.52386	54779.24	1010.558	989.0374	51532.91	1007.266	982.6294
#2	99.94062	54706.74	1002.749	997.3913	51958.12	1004.384	976.1497
#3	99.55780	54718.77	980.8338	986.2288	51534.92	1005.488	980.4880
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1005.500	995.6088	24933.15	50795.93	51785.29	992.3658	52310.66
SDEV	3.508	3.7459	86.49	144.88	132.05	4.5069	160.50
%RSD	.3489011	.3762430	.3468860	.2852102	.2550030	.4541530	.3068243
#1	1004.209	998.2703	24974.79	50949.31	51909.79	996.3154	52456.18
#2	1002.821	997.2308	24833.72	50661.40	51646.79	987.4563	52138.51
#3	1009.471	991.3252	24990.95	50777.09	51799.29	993.3256	52337.29
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1005.364	1002.360	970.1755	1021.847	997.7028	1000.949	1041.309
SDEV	.321	12.041	6.6462	2.585	3.6891	4.765	5.316
%RSD	.0319584	1.201296	.6850464	.2529257	.3697604	.4760461	.5104933
#1	1005.410	989.4022	963.7731	1024.034	995.5814	1002.948	1043.729
#2	1005.660	1004.473	977.0412	1018.995	995.5644	995.5100	1044.985
#3	1005.022	1013.205	969.7123	1022.513	1001.963	1004.388	1035.214
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	988.1096	992.0953	1000.503	1008.224	997.3170	1024.857	978.9939
SDEV	5.5489	5.1326	3.262	4.251	6.5664	1.419	6.0571
%RSD	.5615686	.5173464	.3260043	.4216488	.6584017	.1384990	.6187053
#1	982.1556	991.1491	997.7944	1013.126	997.8672	1025.292	974.0182
#2	989.0362	987.5016	999.5901	1005.559	990.4929	1026.008	985.7385
#3	993.1368	997.6351	1004.123	1005.985	1003.591	1023.271	977.2248
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1009.500	1026.461	177896.4
SDEV	6.975	3.847	937.5
%RSD	.6909665	.3748074	.5269991
#1	1004.175	1027.716	177619.9
#2	1017.396	1022.143	178941.1
#3	1006.928	1029.524	177128.3
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

ANALYSIS REPORT QC STANDARD 08/11/14 01:30:17 PM PAGE 1

METHOD: P4S12014 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 08/11/14 13:23:07
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.337544	27.32005	.0416283	-.133692	-27.1457	-.034262	.3462946
SDEV	.726462	6.93607	.1051941	.174450	34.1686	.251839	.8567675
%RSD	215.2199	25.38820	252.6985	130.4863	125.8714	735.0471	247.4100
#1	.1162291	35.26313	-.006095	-.331666	-49.1468	.2444200	1.144018
#2	.0465640	22.45988	-.031245	-.066921	12.21789	-.101664	.4541659
#3	-1.17543	24.23715	.1622249	-.002490	-44.5081	-.245541	-.559300
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	2.500000	100.0000	100.0000	2.500000	2500.000	2.500000	10.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.820139	.4567968	12.67952	6.772399	9.264926	.1217632	62.68919
SDEV	.313622	.4610093	11.04041	5.001464	4.426123	.0654771	184.7206
%RSD	38.24009	100.9222	87.07276	73.85070	47.77288	53.77413	294.6610
#1	-1.16665	.4818755	24.83169	8.070471	8.017658	.1273393	-45.1715
#2	-.555737	.9047550	9.940271	1.249874	5.596264	.1842740	-42.7425
#3	-.738034	-.016240	3.266615	10.99685	14.18086	.0536764	275.9816
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	2.500000	100.0000	2500.000	2500.000	5.000000	2500.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.252203	3.508083	.4939386	.1349728	-1.89272	1.426943	.3330171
SDEV	.704645	4.016898	.5228660	.1935626	.63804	.949133	3.994211
%RSD	279.3954	114.5041	105.8565	143.4085	33.71001	66.51508	1199.401
#1	.4583919	5.161434	.8514931	.0313973	-2.24654	1.421407	3.071692
#2	-.264259	6.434445	-.106152	.3582848	-2.27544	2.378832	2.177473
#3	-.950743	-1.07163	.7364746	.0152364	-1.15617	.4805911	-4.25011
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	15.00000	10.00000	15.00000	5.000000	5.000000	15.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.08100	-1.75913	-1.95950	1.580327	1.350300	-.545601	4.621758
SDEV	1.49635	.92334	.49739	2.662510	.197058	.260737	1.787330
%RSD	138.4228	52.48860	25.38344	168.4784	14.59366	47.78892	38.67209
#1	.5081480	-2.21078	-2.26448	1.178210	1.542756	-.330386	6.670363
#2	-1.28819	-2.36970	-2.22847	4.421022	1.359201	-.835542	3.814155
#3	-2.46296	-.696900	-1.38554	-.858252	1.148942	-.470875	3.380754
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	5.000000					10.00000	10.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	-.152005	2.419915	178850.9
SDEV	.298775	1.206654	638.7
%RSD	196.5555	49.86348	.3570964
#1	-.202101	3.653142	178148.3
#2	.1686508	1.241718	179008.1
#3	-.422565	2.364885	179396.3
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	10.00000	

METHOD: P4S12014 SAMPLE NAME: HRS OPERATOR:
RUN TIME: 08/11/14 13:36:25
COMMENT: HRS
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2141.579	210367.1	49951.40	H18297.33	201453.6	18694.55	18744.85
SDEV	1.495	629.2	365.37	34.24	486.4	58.26	61.49
%RSD	.0666783	.2991116	.7314532	.1979701	.2414516	.3116380	.3280399
#1	2141.026	209984.4	49590.36	H18261.12	200950.4	18628.23	18675.16
#2	2140.439	210023.5	49942.89	H18329.20	201489.2	18737.46	18767.96
#3	2143.271	211093.3	50320.95	H18301.65	201921.3	18717.96	18791.44
ERRORS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	19298.97	19363.13	186295.4	192786.6	201020.2	19235.26	212420.7
SDEV	53.47	72.10	607.8	830.2	727.8	38.08	366.3
%RSD	.2770401	.3723646	.3447785	.4306535	.3620584	.1979610	.1724196
#1	19252.21	19391.29	185687.1	192000.3	200324.6	19198.22	212207.8
#2	19287.45	19281.21	186296.3	192704.8	200959.6	19233.27	212210.6
#3	19357.26	19416.91	186902.8	193654.8	201776.4	19274.30	212843.6
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	19165.69	19490.28	18887.24	19599.71	19217.53	19035.49	20379.94
SDEV	69.96	106.45	96.71	78.50	35.75	68.21	115.05
%RSD	.3650087	.5461452	.5120562	.4005052	.1860466	.3583480	.5645119
#1	19092.38	19371.06	18776.53	19517.67	19243.38	19103.95	20247.12
#2	19231.72	19524.00	18955.27	19607.33	19176.73	18967.53	20448.20
#3	19172.98	19575.78	18929.93	19674.11	19232.49	19034.99	20444.52
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	19015.08	19306.51	19173.12	19295.70	18905.58	19569.76	18857.39
SDEV	76.83	148.22	49.03	215.46	18.68	102.59	194.28
%RSD	.4040623	.7677141	.2557244	1.116640	.0987888	.5242223	1.030271
#1	18948.72	19475.17	19127.66	19529.73	18891.38	19469.50	18639.67
#2	19099.26	19196.99	19166.62	19105.56	18898.62	19565.25	19013.09
#3	18997.27	19247.36	19225.07	19251.81	18926.74	19674.53	18919.41
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	19692.95	19905.39	172966.9
SDEV	90.07	90.12	470.2
%RSD	.4573764	.4527476	.2718374
#1	19606.47	19803.15	173488.5
#2	19786.23	19973.32	172575.7
#3	19686.14	19939.69	172836.3
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: IBL OPERATOR:
RUN TIME: 08/11/14 13:43:38
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.186322	5.411003	1.093144	1.032561	-26.0929	.0353343	-1.38810
SDEV	.545679	7.816703	.624425	1.406718	3.5236	.3108293	.37416
%RSD	292.8683	144.4594	57.12187	136.2359	13.50403	879.6805	26.95451
#1	-.686683	-1.28167	.6478288	2.479242	-29.4015	-.219898	-1.81945
#2	.3955128	3.512635	.8247050	-.330461	-22.3879	-.055584	-1.19354
#3	-.267796	14.00205	1.806900	.9489015	-26.4894	.3814848	-1.15132
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.017031	.3324507	9.128949	12.46866	8.144175	.5619326	47.66558
SDEV	.888564	.6475231	4.260636	2.58335	5.464220	.3864345	92.33311
%RSD	5217.200	194.7727	46.67170	20.71871	67.09361	68.76884	193.7103
#1	-.437544	-.066049	6.060780	12.56085	1.872581	.2246043	-51.8930
#2	-.617283	-.016191	13.99362	9.840459	10.68160	.4776365	64.40736
#3	1.003732	1.079592	7.332452	15.00468	11.87834	.9835569	130.4823
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4436635	11.32091	.8366121	1.021882	-.010341	4.646964	-.986332
SDEV	.8773251	3.90050	.1058477	.503728	.108147	3.105655	1.216665
%RSD	197.7456	34.45392	12.65195	49.29418	1045.800	66.83192	123.3524
#1	-.482572	15.59516	.7305881	.5382479	.0332053	8.191994	-.357603
#2	1.262119	10.41340	.8369654	.9838486	.0692442	3.343132	-2.38872
#3	.5514438	7.954166	.9422827	1.543548	-.133473	2.405765	-.212673
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.274339	-2.14467	1.055139	3.904855	5.017396	4.910255	38.51292
SDEV	.992442	1.36682	.523369	2.803202	3.280096	1.645298	19.06406
%RSD	43.63652	63.73111	49.60191	71.78760	65.37448	33.50738	49.50044
#1	3.373347	-1.34946	.7234204	7.141707	8.716284	3.301274	59.77799
#2	1.443626	-1.36162	.7835192	2.280813	3.873430	6.589612	32.80845
#3	2.006044	-3.72292	1.658476	2.292044	2.462473	4.839879	22.95231
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.3699519	35.40978	181675.2
SDEV	.2570434	9.97706	139.9
%RSD	69.48022	28.17601	.0770044
#1	.0840758	46.26483	181804.7
#2	.4437709	33.32405	181694.1
#3	.5820091	26.64045	181526.8
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 4080802-BLK1 OPERATOR:
RUN TIME: 08/11/14 13:54:29
COMMENT: SDG:1408012 CLIENTID:PBWGM 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.349240	78.42210	1.117676	1.840177	182.1055	-1.09014	L-7.21271
SDEV	.464830	12.11066	.665520	.956655	22.3723	.37385	.79946
%RSD	133.0976	15.44292	59.54499	51.98710	12.28538	34.29372	11.08400
#1	-.232857	86.60543	1.859411	2.865619	200.5575	-.841763	L-6.89354
#2	-.861202	84.15096	.9208472	.9717331	157.2217	-.908561	L-6.62213
#3	.0463395	64.50990	.5727708	1.683178	188.5372	-1.52010	L-8.12244
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC LOW
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-5.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.871435	-.862880	34.41553	39.52795	15.62445	.6745954	380.6315
SDEV	.771797	.113952	15.41814	5.17628	3.46257	.3599789	67.5890
%RSD	26.87845	13.20597	44.79994	13.09524	22.16121	53.36220	17.75706
#1	3.753779	-.887835	37.98403	43.44149	19.33858	1.040523	390.6077
#2	2.538762	-.738520	47.73653	41.48362	15.04928	.6623881	442.6779
#3	2.321763	-.962287	17.52604	33.65876	12.48547	.3208753	308.6089
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000
LOW	-5.00000	-5.00000	-100.000	-5000.00	-5000.00	-10.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.054161	-2.21480	.8620057	10.33040	H4.365667	-.210261	H13.10768
SDEV	.493174	.76341	.3769561	.71131	.756414	2.358093	3.34947
%RSD	46.78357	34.46864	43.73011	6.885618	17.32643	1121.508	25.55348
#1	.7545989	-3.01658	.7587277	10.52111	H3.866373	-.912947	H10.60002
#2	1.623368	-2.13117	.5474533	10.92692	H5.235952	-2.13713	H16.91155
#3	.7845175	-1.49665	1.279836	9.543173	H3.994677	2.419300	H11.81148
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC HIGH
HIGH	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000
LOW	-40.0000	-10.0000	-20.0000	-20.0000	-3.00000	-5.00000	-10.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.9470688	11.18844	.9591504	-12.4984	5.924512	21.31499	H9.364765
SDEV	.9854009	.78631	1.485353	6.7507	.483096	2.61738	3.824108
%RSD	104.0474	7.027918	154.8613	54.01275	8.154182	12.27951	40.83506
#1	1.980663	11.25699	.1765196	-15.4810	6.360092	23.91604	H13.19914
#2	.0182318	10.37010	2.672165	-17.2440	5.404921	21.34736	H9.344139
#3	.8423111	11.93824	.0287665	-4.77006	6.008522	18.68158	H5.551012
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC HIGH
HIGH	10.00000					100.0000	5.000000
LOW	-10.0000					-100.000	-5.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.5246983	23.84421	177106.0
SDEV	.3531002	2.54821	927.5
%RSD	67.29585	10.68691	.5237107
#1	.6176577	26.16886	177062.7
#2	.8220189	24.24405	176200.9
#3	.1344183	21.11971	178054.4
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	40.00000	200.0000	
LOW	-40.0000	-200.000	

METHOD: P4S12014 SAMPLE NAME: 4080802-BS1 OPERATOR:
RUN TIME: 08/11/14 14:01:41
COMMENT: SDG:1408012 CLIENTID:MLCSGZ 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	424.9318	80743.23	2768.201	1270.034	63699.13	1445.027	690.9033
SDEV	3.8593	725.57	12.073	6.400	402.70	9.174	3.8855
%RSD	.9082118	.8986137	.4361441	.5038881	.6321946	.6348748	.5623742
#1	421.1629	79919.72	2756.488	1262.680	63235.42	1434.879	687.5009
#2	424.7569	81021.48	2767.509	1274.338	63960.99	1447.468	690.0717
#3	428.8755	81288.49	2780.606	1273.084	63900.98	1452.734	695.1372
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	556.0000	128000.0	3070.000	1570.000	75400.00	1790.000	804.0000
LOW	330.0000	46800.00	2170.000	1090.000	52600.00	1240.000	570.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1159.902	666.3202	108226.0	30034.39	32892.36	5494.608	8415.165
SDEV	10.327	7.2790	761.5	197.35	226.16	39.672	185.800
%RSD	.8903152	1.092410	.7035785	.6570753	.6875758	.7220141	2.207913
#1	1147.986	658.6375	107361.0	29830.78	32633.75	5448.918	8217.045
#2	1165.466	667.2095	108521.8	30047.56	32990.22	5514.598	8442.933
#3	1166.254	673.1137	108795.2	30224.82	33053.11	5520.309	8585.519
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1410.000	818.0000	197000.0	39400.00	44400.00	6670.000	9570.000
LOW	929.0000	555.0000	49500.00	21400.00	27600.00	4580.000	5350.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3104.916	2605.812	1112.418	2983.202	2396.992	1404.138	760.4971
SDEV	23.935	34.230	7.905	11.172	7.530	8.332	5.0240
%RSD	.7708867	1.313615	.7106051	.3744814	.3141494	.5933765	.6606198
#1	3077.577	2566.337	1103.689	2973.903	2392.027	1401.286	756.6359
#2	3115.073	2623.820	1114.472	2980.109	2405.657	1413.521	758.6782
#3	3122.098	2627.280	1119.093	2995.594	2393.293	1397.606	766.1772
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3710.000	3150.000	1430.000	3680.000	3010.000	1980.000	2320.000
LOW	2590.000	2040.000	888.0000	2450.000	2070.000	1250.000	.0000000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1384.126	2404.526	2393.231	1415.920	1398.255	1117.802	758.6854
SDEV	7.085	13.746	4.454	14.913	8.012	10.149	6.8603
%RSD	.5118933	.5716904	.1861217	1.053205	.5729945	.9079677	.9042357
#1	1375.945	2396.209	2389.939	1401.835	1401.013	1109.688	750.9927
#2	1388.285	2420.393	2398.300	1431.541	1404.524	1114.536	760.8945
#3	1388.147	2396.975	2391.454	1414.385	1389.229	1129.183	764.1689
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	1810.000					1400.000	972.0000
LOW	1220.000					863.0000	598.0000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	2277.643	1167.435	172826.9
SDEV	17.707	9.464	281.0
%RSD	.7774077	.8106965	.1626140
#1	2258.113	1156.576	172785.1
#2	2282.170	1171.798	172569.1
#3	2292.647	1173.931	173126.5
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	4310.000	1550.000	
LOW	818.0000	893.0000	

METHOD: P4S12014 SAMPLE NAME: 4080802-BSD1 OPERATOR:
RUN TIME: 08/11/14 14:08:54
COMMENT: SDG:1408012 CLIENTID:MLCSDGZ 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	433.0887	82332.80	2706.002	1278.918	64866.63	1458.090	669.8812
SDEV	2.3045	531.44	21.762	6.258	231.34	3.501	3.3206
%RSD	.5321171	.6454797	.8042281	.4893229	.3566394	.2401147	.4957058
#1	430.9706	81720.59	2690.641	1276.031	64654.71	1454.850	667.4203
#2	432.7526	82602.60	2696.459	1274.625	64831.75	1461.803	673.6581
#3	435.5428	82675.23	2730.905	1286.098	65113.43	1457.616	668.5651
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	556.0000	128000.0	3070.000	1570.000	75400.00	1790.000	804.0000
LOW	330.0000	46800.00	2170.000	1090.000	52600.00	1240.000	570.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1165.860	686.3102	107961.3	30235.38	33230.40	5536.313	8409.912
SDEV	10.675	4.4374	391.9	203.63	130.54	26.201	136.575
%RSD	.9156417	.6465660	.3629555	.6734952	.3928338	.4732491	1.623976
#1	1160.916	681.3550	107511.1	30016.55	33082.36	5506.724	8262.788
#2	1158.553	689.9170	108147.5	30419.31	33329.01	5545.645	8532.653
#3	1178.111	687.6588	108225.3	30270.28	33279.82	5556.570	8434.296
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1410.000	818.0000	197000.0	39400.00	44400.00	6670.000	9570.000
LOW	929.0000	555.0000	49500.00	21400.00	27600.00	4580.000	5350.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3110.310	2621.138	1114.930	3004.694	2410.240	1412.451	752.8762
SDEV	9.466	11.873	8.228	14.845	13.927	8.805	2.1675
%RSD	.3043511	.4529552	.7379715	.4940597	.5778352	.6233669	.2878914
#1	3099.438	2610.227	1115.911	2996.944	2401.918	1407.842	750.8751
#2	3116.724	2633.782	1106.256	3021.810	2426.319	1422.604	752.5749
#3	3114.769	2619.406	1122.624	2995.329	2402.484	1406.909	755.1785
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3710.000	3150.000	1430.000	3680.000	3010.000	1980.000	2320.000
LOW	2590.000	2040.000	888.0000	2450.000	2070.000	1250.000	.0000000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1389.734	2411.009	2409.856	1418.893	1409.236	1122.520	766.4897
SDEV	6.751	4.926	18.693	4.334	13.119	8.254	5.2178
%RSD	.4858035	.2042983	.7756812	.3054563	.9309178	.7352787	.6807412
#1	1382.020	2410.458	2397.655	1423.050	1400.249	1115.576	760.8987
#2	1394.569	2416.187	2431.377	1419.228	1424.290	1131.645	767.3405
#3	1392.612	2406.382	2400.537	1414.401	1403.168	1120.338	771.2298
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	1810.000					1400.000	972.0000
LOW	1220.000					863.0000	598.0000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	2319.784	1182.479	172885.0
SDEV	19.733	8.400	460.3
%RSD	.8506255	.7103601	.2662533
#1	2310.391	1172.890	173135.9
#2	2306.503	1188.538	172353.7
#3	2342.459	1186.009	173165.3
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	4310.000	1550.000	
LOW	818.0000	893.0000	

METHOD: P4S12014 SAMPLE NAME: 1408012-01 OPERATOR:
RUN TIME: 08/11/14 14:16:06
COMMENT: SDG:1408012 CLIENTID:CS6A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.689190	229957.2	3878.576	7.592426	33585.50	-9.49060	200.4019
SDEV	.712449	654.1	16.698	.365744	76.60	.35677	1.7756
%RSD	103.3748	.2844399	.4305202	4.817222	.2280883	3.759205	.8860406
#1	-.386975	230712.3	3896.098	7.999931	33665.19	-9.09737	202.1184
#2	-1.50293	229563.9	3862.846	7.484709	33512.41	-9.58084	200.5147
#3	-.177664	229595.5	3876.785	7.292636	33578.89	-9.79358	198.5725
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	367.1437	421.8277	H298469.5	159863.8	161532.5	5595.608	9933.205
SDEV	1.3067	2.8052	1163.2	673.1	560.3	21.713	198.448
%RSD	.3559135	.6650173	.3897120	.4210762	.3468781	.3880437	1.997827
#1	367.9510	419.3385	H299745.8	160524.9	162178.5	5619.404	10085.78
#2	365.6361	421.2773	H297468.9	159179.2	161177.9	5576.871	9708.856
#3	367.8440	424.8674	H298193.9	159887.1	161241.1	5590.549	10004.97
ERRORS	LC PASS	LC PASS	LC HIGH	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	162.8970	83.34219	734.5177	880.0558	-43.9256	-16.3000	-38.1066
SDEV	.8109	9.91529	4.4515	2.9275	1.9328	1.7929	1.9991
%RSD	.4978097	11.89708	.6060466	.3326506	4.400084	10.99959	5.246139
#1	163.8325	90.58743	736.6138	883.2233	-44.1459	-18.3221	-36.7654
#2	162.4643	72.04215	729.4051	879.4945	-45.7387	-15.6737	-37.1501
#3	162.3942	87.39699	737.5342	877.4496	-41.8921	-14.9042	-40.4043
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-4.50704	-31.2505	-50.2537	8.443665	-28.6534	50.70207	8.894378
SDEV	3.60060	1.9111	2.2090	2.827047	1.4405	.74691	1.503766
%RSD	79.88829	6.115399	4.395625	33.48128	5.027342	1.473139	16.90693
#1	-4.24803	-30.1094	-51.1538	5.678833	-30.3046	50.45309	10.08660
#2	-1.04294	-33.4568	-51.8706	8.323092	-27.6542	51.54168	9.391548
#3	-8.23015	-30.1852	-47.7368	11.32907	-28.0012	50.11145	7.204984
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	30504.11	40.88915	167272.0
SDEV	91.63	.72660	1395.3
%RSD	.3003786	1.776989	.8341594
#1	30609.81	40.49522	166047.2
#2	30447.33	41.72764	166977.9
#3	30455.18	40.44458	168790.9
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: SDI1408012-01 OPERATOR:
RUN TIME: 08/11/14 14:23:19
COMMENT: SDG:1408012 CLIENTID:CS6AL 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2428479	47228.87	753.8650	-.051202	6917.764	-3.93190	42.22759
SDEV	.2046034	119.30	4.6069	.174552	36.462	.13862	.76044
%RSD	84.25166	.2525998	.6111100	340.9108	.5270843	3.525560	1.800807
#1	.0914592	47329.77	749.8989	.1466386	6954.674	-4.08991	42.63309
#2	.4756207	47097.20	752.7778	-.116764	6916.850	-3.83075	41.35035
#3	.1614637	47259.64	758.9183	-.183479	6881.767	-3.87504	42.69933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	75.21954	86.94521	70593.17	35491.68	33798.04	1141.645	2148.011
SDEV	.73126	.53609	368.98	145.60	200.92	3.763	44.346
%RSD	.9721724	.6165793	.5226826	.4102310	.5944611	.3295820	2.064505
#1	76.04699	87.49342	70962.80	35510.54	33995.68	1145.503	2198.246
#2	74.66009	86.42213	70224.84	35337.58	33594.00	1141.446	2114.299
#3	74.95152	86.92009	70591.88	35626.94	33804.43	1137.985	2131.489
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	34.19232	11.80390	153.0638	189.0536	-13.8573	-1.93002	-7.51048
SDEV	1.02652	1.04192	.6051	.8364	1.6975	4.02185	2.75556
%RSD	3.002183	8.826951	.3953435	.4423995	12.25003	208.3839	36.68948
#1	34.81177	10.62032	153.7518	189.7890	-11.9056	.4887097	-9.11162
#2	33.00741	12.20868	152.8254	188.1438	-14.6760	-6.57270	-4.32866
#3	34.75777	12.58268	152.6141	189.2279	-14.9903	.2939231	-9.09116
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.77952	-8.92245	-16.3211	1.401095	-3.59315	7.464067	3.446651
SDEV	1.38587	.40450	2.6440	7.729219	2.17240	1.572726	1.382849
%RSD	77.87872	4.533521	16.20012	551.6558	60.45958	21.07063	40.12152
#1	-.515806	-9.17487	-13.2689	5.923364	-2.22461	8.173684	1.955721
#2	-1.56114	-8.45589	-17.7814	-7.52357	-6.09804	8.556946	4.687209
#3	-3.26161	-9.13658	-17.9128	5.803491	-2.45680	5.661570	3.697023
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	6071.350	12.11542	177767.7
SDEV	34.013	.65070	1157.4
%RSD	.5602232	5.370882	.6510971
#1	6108.985	12.67588	177508.2
#2	6062.257	12.26857	179032.8
#3	6042.807	11.40180	176761.9
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 4080603-BLK1 OPERATOR:
RUN TIME: 08/11/14 14:30:32
COMMENT: SDG:1407192 CLIENTID:PBWGQ 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.291092	H1749.127	1.425752	-.609768	3085.760	-.329106	-2.03654
SDEV	.768252	8.363	.014137	.215992	27.662	.180197	.59804
%RSD	263.9202	.4781211	.9915543	35.42198	.8964475	54.75339	29.36545
#1	-.267854	H1742.641	1.410019	-.460512	3080.606	-.138161	-1.34827
#2	.4652766	H1746.173	1.437388	-.511351	3061.037	-.352984	-2.33206
#3	-1.07070	H1758.566	1.429850	-.857441	3115.636	-.496173	-2.42928
ERRORS	LC PASS	LC HIGH	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-5.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6261314	.0835414	80.33471	90.66966	61.89879	.6844569	391.3337
SDEV	.4676067	.2037193	6.60940	.93998	3.44444	.1435331	156.9207
%RSD	74.68188	243.8543	8.227327	1.036714	5.564628	20.97037	40.09896
#1	.2461052	-.140478	79.83760	91.04425	60.18604	.8470338	317.2102
#2	1.148321	.1333981	87.17863	91.36460	65.86387	.6310671	571.5855
#3	.4839683	.2577042	73.98790	89.60014	59.64647	.5752699	285.2053
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000
LOW	-5.00000	-5.00000	-100.000	-5000.00	-5000.00	-10.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5967742	-2.67297	1.081375	-.343793	2.096233	-.918319	3.857674
SDEV	.9277418	2.61481	.284169	.074182	1.228141	.354896	1.901600
%RSD	155.4594	97.82410	26.27848	21.57768	58.58800	38.64624	49.29395
#1	-.470093	-.495196	1.299395	-.294084	2.004050	-.802173	5.781164
#2	1.046243	-1.95073	1.184739	-.429061	H3.367867	-.636049	3.813111
#3	1.214173	-5.57300	.7599918	-.308233	.9167805	-1.31674	1.978748
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000
LOW	-40.0000	-10.0000	-20.0000	-20.0000	-3.00000	-5.00000	-10.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1960547	4.588229	.8520181	-4.44000	.8398122	.4418120	2.304956
SDEV	3.559149	3.222905	.8440962	3.54419	1.252509	.7865744	.342672
%RSD	1815.386	70.24289	99.07023	79.82423	149.1416	178.0337	14.86675
#1	4.158943	2.671698	1.670642	-4.08489	.8366575	1.232573	2.257323
#2	-.842427	8.309155	.9008429	-1.08672	-.411117	.4333713	2.668952
#3	-2.72835	2.783834	-.015431	-8.14837	2.093896	-.340508	1.988592
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	10.00000					100.0000	5.000000
LOW	-10.0000					-100.000	-5.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1.319084	H239.9070	178151.5
SDEV	.105864	2.0884	1023.2
%RSD	8.025556	.8704994	.5743651
#1	1.427663	H239.3986	177060.2
#2	1.216162	H238.1197	179089.5
#3	1.313429	H242.2026	178304.7
ERRORS	LC PASS	LC HIGH	NOCHECK
HIGH	40.00000	200.0000	
LOW	-40.0000	-200.000	

METHOD: P4S12014 SAMPLE NAME: 4080603-BS1 OPERATOR:
RUN TIME: 08/11/14 14:37:44
COMMENT: SDG:1407192 CLIENTID:MLCSGQ 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	528.7784	H4310.948	548.9388	537.1844	H13830.90	543.0557	528.2159
SDEV	.8772	17.657	6.2001	2.9642	61.11	1.5104	2.1256
%RSD	.1658922	.4095853	1.129471	.5517984	.4418184	.2781279	.4024065
#1	528.2891	H4290.606	545.3931	534.7463	H13770.70	543.7427	526.2360
#2	528.2551	H4319.926	556.0980	536.3231	H13829.14	544.1005	530.4620
#3	529.7911	H4322.312	545.3255	540.4839	H13892.87	541.3240	527.9497
ERRORS	LC PASS	LC HIGH	LC PASS	LC PASS	LC HIGH	LC PASS	LC PASS
HIGH	660.0000	3120.000	660.0000	660.0000	13200.00	660.0000	660.0000
LOW	440.0000	2080.000	440.0000	440.0000	8800.000	440.0000	440.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	543.1360	537.0461	5130.094	11724.64	5902.313	538.2425	11783.03
SDEV	1.1999	.5647	29.580	66.96	12.375	1.5817	97.37
%RSD	.2209167	.1051535	.5765912	.5711203	.2096643	.2938714	.8263735
#1	542.4761	536.5331	5096.337	11647.51	5888.265	536.4939	11794.01
#2	542.4109	537.6513	5151.482	11767.95	5907.070	538.6599	11874.45
#3	544.5210	536.9539	5142.461	11758.45	5911.604	539.5737	11680.64
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	660.0000	660.0000	6120.000	13200.00	7200.000	660.0000	13200.00
LOW	440.0000	440.0000	4080.000	8800.000	4800.000	440.0000	8800.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	542.2326	1090.991	533.1753	1088.187	1077.546	1021.837	1102.871
SDEV	.0786	3.262	3.0535	3.043	4.053	6.246	9.216
%RSD	.0144975	.2990316	.5726953	.2796331	.3761140	.6112809	.8356512
#1	542.3228	1090.978	536.7010	1087.019	1072.912	1014.627	1092.417
#2	542.1782	1087.735	531.4423	1091.641	1080.431	1025.628	1106.373
#3	542.1969	1094.260	531.3827	1085.901	1079.294	1025.255	1109.822
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	660.0000	1320.000	660.0000	1320.000	1320.000	1320.000	1320.000
LOW	440.0000	880.0000	440.0000	880.0000	880.0000	880.0000	880.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1017.799	1076.391	1078.122	1025.766	1019.875	1092.773	1092.813
SDEV	1.640	2.225	6.334	5.452	7.552	3.124	6.469
%RSD	.1611512	.2066879	.5875332	.5314758	.7405036	.2859188	.5919629
#1	1017.239	1076.406	1071.168	1020.942	1011.475	1091.432	1085.674
#2	1016.512	1074.158	1083.562	1024.676	1026.103	1096.344	1098.287
#3	1019.646	1078.608	1079.637	1031.681	1022.047	1090.543	1094.478
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	1320.000						
LOW	880.0000						

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1101.934	1269.528	173778.5
SDEV	3.293	5.322	560.2
%RSD	.2988080	.4191770	.3223682
#1	1099.330	1264.255	174373.3
#2	1100.836	1269.432	173260.9
#3	1105.635	1274.897	173701.3
ERRORS	NOCHECK	LC PASS	NOCHECK
HIGH		1320.000	
LOW		880.0000	

METHOD: P4S12014 SAMPLE NAME: 1407192-01 OPERATOR:
RUN TIME: 08/11/14 14:44:57
COMMENT: SDG:1407192 CLIENTID:MW-9 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.477198	134.9614	2164.316	1.733411	54684.03	-1.98447	6.626916
SDEV	.423274	18.2224	19.498	1.239786	75.40	.32983	2.112236
%RSD	88.69991	13.50190	.9008929	71.52290	.1378789	16.62040	31.87359
#1	-.861242	154.7750	2142.515	3.148264	54628.27	-1.60543	9.065784
#2	-.546985	131.1878	2170.349	.8370030	54654.01	-2.14178	5.385500
#3	-.023367	118.9212	2180.085	1.214967	54769.82	-2.20618	5.429465
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.778088	-.572485	5117.520	1621.880	44415.93	991.1161	1084.076
SDEV	.506935	.349039	15.780	18.162	265.62	5.5648	144.061
%RSD	65.15134	60.96912	.3083431	1.119809	.5980380	.5614706	13.28882
#1	-.422347	-.215442	5124.735	1602.682	44693.50	986.9268	917.8777
#2	-.553380	-.912927	5128.403	1638.789	44390.17	997.4304	1161.084
#3	-1.35854	-.589086	5099.423	1624.169	44164.12	988.9913	1173.267
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.00242	.6886471	.5783412	-.569441	.2314747	1.384421	5.440062
SDEV	.68883	3.854335	.2044079	.096687	.7619655	3.151034	3.455719
%RSD	4.591479	559.6967	35.34382	16.97921	329.1787	227.6067	63.52353
#1	15.43922	-1.55497	.7816437	-.457808	.9847664	.5977873	7.146289
#2	15.35969	5.139199	.3728456	-.623903	-.538878	4.854248	7.710822
#3	14.20835	-1.51829	.5805342	-.626612	.2485358	-1.29877	1.463075
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.557103	1.469307	-.386600	-1.40447	2.776707	2.464538	3.984500
SDEV	3.579529	1.692651	.302784	2.46353	4.482784	2.777905	1.773593
%RSD	47.36642	115.2007	78.31966	175.4070	161.4424	112.7150	44.51230
#1	6.626452	3.198683	-.120620	-4.23212	3.009051	3.949121	6.009703
#2	11.51004	-.184059	-.716107	.2781657	7.138802	-.740225	3.235615
#3	4.534815	1.393297	-.323072	-.259440	-1.81773	4.184719	2.708182
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	-.005489	18.98923	174240.7
SDEV	.183107	1.39041	2819.0
%RSD	3335.855	7.322115	1.617868
#1	-.113632	20.41930	170987.4
#2	.2059258	18.90620	175774.4
#3	-.108761	17.64219	175960.3
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

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METHOD: P4S12014 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 08/11/14 14:52:10
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	101.8042	54028.45	1000.013	979.1726	51644.97	1006.230	979.8481
SDEV	.7963	228.63	4.116	3.0563	216.89	4.055	6.8810
%RSD	.7822286	.4080516	.4116205	.3121318	.4199585	.4029622	.7022559
#1	102.2811	54291.15	1004.662	982.6405	51890.25	1010.254	986.7980
#2	102.2465	53874.46	998.5446	976.8718	51478.51	1002.145	973.0380
#3	100.8849	53919.75	996.8323	978.0055	51566.16	1006.291	979.7082
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1003.823	1016.957	25145.34	52828.59	51512.12	994.2372	53945.48
SDEV	4.806	5.177	151.21	337.50	261.79	7.0984	389.27
%RSD	.4787893	.5090488	.6013408	.6388501	.5082042	.7139547	.7215928
#1	1009.315	1022.303	25300.27	53214.91	51726.80	1002.057	54160.30
#2	1001.770	1016.600	24998.15	52591.07	51220.48	988.1998	53496.14
#3	1000.384	1011.968	25137.60	52679.77	51589.08	992.4549	54180.01
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1009.706	1018.817	966.7020	1016.012	1000.107	994.9607	1041.617
SDEV	4.792	6.759	1.0389	6.148	2.270	2.6565	8.213
%RSD	.4745785	.6634313	.1074648	.6051141	.2269700	.2669929	.7884691
#1	1012.825	1012.402	967.6794	1022.080	1002.689	994.2761	1048.061
#2	1004.188	1018.177	965.6110	1009.787	999.2079	992.7137	1032.370
#3	1012.103	1025.874	966.8154	1016.170	998.4253	997.8926	1044.422
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	984.3204	989.9874	1005.160	1012.483	986.2129	1026.131	973.8367
SDEV	6.5619	6.0823	2.327	4.809	6.1439	5.854	5.9020
%RSD	.6666471	.6143778	.2314969	.4749520	.6229779	.5705242	.6060606
#1	990.7689	994.3298	1006.863	1010.616	986.1182	1031.362	968.5804
#2	977.6506	992.5964	1002.509	1017.945	980.1169	1019.808	972.7081
#3	984.5417	983.0358	1006.109	1008.887	992.4036	1027.223	980.2215
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1011.492	1034.103	177812.5
SDEV	2.603	6.006	1162.7
%RSD	.2573418	.5807831	.6539023
#1	1014.452	1034.918	177929.1
#2	1009.560	1027.731	178912.5
#3	1010.464	1039.659	176595.9
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

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METHOD: P4S12014 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 08/11/14 14:59:29
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.151414	30.17215	-.054331	.1643578	-72.8035	-.296284	-.691150
SDEV	.659911	6.17750	.102798	2.397966	16.7795	.156095	.172178
%RSD	435.8329	20.47418	189.2066	1458.991	23.04761	52.68412	24.91177
#1	.0813376	33.51629	-.101699	-.545384	-89.2054	-.253115	-.889962
#2	.3605839	33.95665	.0636110	2.837081	-73.5346	-.166317	-.592601
#3	-.896163	23.04352	-.124905	-1.79862	-55.6704	-.469420	-.590888
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.047746	.0834256	8.228899	10.40097	7.340543	.1216077	228.9303
SDEV	.126367	.2171405	9.587477	6.18156	6.104239	.1103444	70.4078
%RSD	264.6646	260.2804	116.5098	59.43248	83.15787	90.73796	30.75515
#1	-.006237	-.016239	-2.12688	5.074893	.4922440	.1874710	208.8133
#2	.0526453	.3325071	10.01737	17.17939	9.319931	.1831345	307.2071
#3	-.189647	-.065991	16.79620	8.948643	12.20945	-.005782	170.7704
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3694866	3.588229	.8459961	-.014896	-2.36778	-.126861	2.260076
SDEV	.0501741	2.325007	.1064979	.467476	1.95754	2.385707	1.485764
%RSD	13.57940	64.79539	12.58846	3138.207	82.67387	1880.570	65.73955
#1	.4242604	5.032680	.7383069	.1387651	Q-3.09393	2.298107	3.623832
#2	.3584495	4.825808	.9512613	.3564081	-.150932	-.207423	.6767426
#3	.3257500	.9062003	.8484201	-.539862	Q-3.85849	-2.47127	2.479654
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1045426	-5.68517	-.711724	4.792743	-2.58304	.7187173	4.560599
SDEV	1.531650	7.23765	2.108362	4.614194	1.97361	1.392425	.474173
%RSD	1465.096	127.3077	296.2331	96.27461	76.40649	193.7375	10.39717
#1	.8291977	-3.24747	-3.01737	10.11706	-1.60557	-.514905	5.023342
#2	-1.65496	.0189112	-.235811	1.958692	-1.28892	.4425119	4.582686
#3	1.139393	-13.8269	1.118004	2.302479	-4.85463	2.228545	4.075768
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	10.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.0183741	2.140686	178857.1
SDEV	.3062092	.952771	259.3
%RSD	1666.529	44.50776	.1450017
#1	.2664059	1.555691	178633.9
#2	.1125879	3.240097	179141.6
#3	-.323872	1.626270	178795.7
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	40.00000	200.0000	

METHOD: P4S12014 SAMPLE NAME: 4080603-DUP1 OPERATOR:
RUN TIME: 08/11/14 15:06:43
COMMENT: SDG:1407192 CLIENTID:MW-9D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.826220	355.5090	2112.646	-.463393	54646.86	-1.20990	9.184073
SDEV	.785933	5.0753	10.944	1.334343	121.72	.18059	.230593
%RSD	95.12395	1.427617	.5180229	287.9507	.2227395	14.92598	2.510795
#1	-.861191	360.1215	2104.778	-1.94190	54594.13	-1.39933	9.429223
#2	-1.59408	356.3336	2125.144	-.099607	54560.39	-1.03969	9.151496
#3	-.023385	350.0719	2108.015	.6513314	54786.06	-1.19069	8.971501
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.302513	-.165755	5116.727	1599.927	44243.85	977.0474	931.3936
SDEV	.627793	.400758	10.064	9.665	61.08	3.3733	156.6959
%RSD	207.5261	241.7773	.1966909	.6041095	.1380548	.3452586	16.82381
#1	.3263962	.2824609	5108.429	1594.585	44177.96	975.7861	841.2654
#2	-.929184	-.489531	5127.921	1594.111	44255.00	974.4865	840.5855
#3	-.304751	-.290195	5113.829	1611.084	44298.59	980.8697	1112.330
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.04047	-1.93917	.5393179	.7824676	-1.81463	1.189704	5.775165
SDEV	.88591	2.24600	.1314125	.1370835	.61793	1.238879	2.246855
%RSD	5.890154	115.8226	24.36644	17.51939	34.05251	104.1334	38.90546
#1	14.66146	-2.98685	.4636875	.7895304	-2.31071	1.678911	8.287375
#2	14.40712	-3.46991	.4632063	.9158832	-2.01073	2.109286	5.080268
#3	16.05283	.6392460	.6910598	.6419892	-1.12245	-.219085	3.957851
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.21977	1.378157	-3.40871	-4.87069	4.215290	1.828609	3.088034
SDEV	4.34965	2.488580	.49836	2.62678	2.283523	4.234845	.021462
%RSD	42.56118	180.5730	14.62003	53.93036	54.17238	231.5882	.6950098
#1	15.22841	-1.22064	-2.85501	-7.73038	6.376432	-.593102	3.094869
#2	7.392024	1.615616	-3.82127	-2.56527	4.442990	-.639583	3.105246
#3	8.038866	3.739497	-3.54986	-4.31643	1.826448	6.718513	3.063986
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.2075497	45.40342	174113.3
SDEV	.0860470	.62684	1243.1
%RSD	41.45853	1.380601	.7139869
#1	.1569434	44.95611	173741.2
#2	.1588032	45.13427	173098.8
#3	.3069025	46.11989	175500.1
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 4080603-MS1 OPERATOR:
RUN TIME: 08/11/14 15:13:55
COMMENT: SDG:1407192 CLIENTID:MW-9S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	556.8085	3079.873	2685.135	553.9430	66728.65	562.8649	563.8628
SDEV	.7258	8.680	42.567	1.5332	121.74	2.5240	3.9101
%RSD	.1303583	.2818270	1.585289	.2767873	.1824460	.4484194	.6934401
#1	556.3889	3082.305	2647.374	554.1006	66588.28	560.0347	561.2939
#2	556.3899	3087.077	2731.265	552.3371	66792.22	564.8826	568.3627
#3	557.6466	3070.236	2676.768	555.3914	66805.45	563.6773	561.9317
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	562.2619	566.7638	10287.76	13803.18	51293.43	1554.722	13302.80
SDEV	2.3277	1.5756	46.28	79.97	243.23	6.436	51.01
%RSD	.4139800	.2780065	.4498142	.5793632	.4741903	.4139916	.3834894
#1	564.9068	566.4005	10270.18	13750.21	51165.15	1557.130	13316.81
#2	560.5256	568.4893	10340.25	13895.17	51573.95	1559.608	13246.25
#3	561.3533	565.4015	10252.85	13764.15	51141.20	1547.429	13345.35
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	581.4668	1140.414	550.2821	1129.889	1114.065	1044.412	1152.226
SDEV	2.8722	7.150	3.4661	8.317	8.318	7.719	6.704
%RSD	.4939513	.6269448	.6298739	.7361070	.7466709	.7391134	.5818022
#1	578.5761	1132.457	554.2808	1123.475	1108.307	1040.477	1144.801
#2	584.3200	1142.487	548.1360	1139.287	1123.602	1053.306	1157.832
#3	581.5043	1146.298	548.4296	1126.907	1110.286	1039.454	1154.045
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1072.402	1115.812	1113.193	1064.211	1034.528	1147.314	1131.885
SDEV	3.994	12.418	7.574	16.390	9.935	5.868	10.466
%RSD	.3724719	1.112915	.6804022	1.540140	.9603414	.5114633	.9246865
#1	1067.933	1102.840	1111.036	1045.405	1038.017	1145.771	1119.836
#2	1075.625	1127.590	1121.611	1075.457	1042.248	1153.799	1138.722
#3	1073.648	1117.007	1106.930	1071.770	1023.319	1142.371	1137.098
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1138.057	1139.156	173922.8
SDEV	2.028	6.007	763.5
%RSD	.1781760	.5272973	.4389595
#1	1136.058	1133.159	174295.2
#2	1138.001	1145.173	173044.6
#3	1140.112	1139.136	174428.5
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 4080603-MSD1 OPERATOR:
RUN TIME: 08/11/14 15:21:08
COMMENT: SDG:1407192 CLIENTID:MW-9SD 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	539.9500	3005.730	2653.334	533.8574	64881.78	540.6207	541.0031
SDEV	2.8269	15.865	29.990	5.1918	241.36	2.4573	4.2154
%RSD	.5235437	.5278345	1.130278	.9725106	.3720056	.4545271	.7791836
#1	537.1229	3003.356	2622.434	539.5727	64864.69	542.6368	536.9735
#2	542.7767	3022.649	2682.323	532.5670	65131.23	541.3419	545.3825
#3	539.9504	2991.186	2655.246	529.4324	64649.41	537.8836	540.6531
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	541.8205	550.9244	9972.236	13702.32	49617.56	1513.078	12972.42
SDEV	7.8881	2.4372	91.364	210.25	165.34	20.116	278.99
%RSD	1.455847	.4423843	.9161871	1.534398	.3332283	1.329497	2.150659
#1	533.9794	548.2080	9898.504	13461.94	49711.30	1492.274	12728.94
#2	549.7547	552.9197	10074.45	13851.93	49714.74	1532.428	13276.85
#3	541.7274	551.6455	9943.756	13793.10	49426.66	1514.533	12911.48
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	563.0975	1113.418	531.2248	1080.102	1080.790	1024.429	1115.932
SDEV	2.4849	7.042	5.4721	4.463	9.451	8.059	10.411
%RSD	.4412892	.6324359	1.030083	.4132471	.8744273	.7866427	.9329165
#1	564.2456	1105.741	527.1932	1079.156	1069.907	1033.624	1127.896
#2	564.8008	1114.934	537.4541	1084.963	1086.933	1021.067	1110.968
#3	560.2462	1119.577	529.0273	1076.188	1085.529	1018.595	1108.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1033.157	1072.154	1085.101	1034.863	1019.219	1107.544	1099.762
SDEV	15.886	10.963	9.156	7.683	10.409	7.738	6.469
%RSD	1.537618	1.022508	.8437808	.7424024	1.021252	.6986514	.5882103
#1	1051.273	1060.501	1074.603	1038.691	1031.094	1111.167	1095.698
#2	1021.607	1082.263	1089.265	1039.881	1011.675	1112.805	1107.222
#3	1026.589	1073.699	1091.435	1026.019	1014.889	1098.659	1096.366
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1109.034	1103.988	173135.1
SDEV	7.790	10.098	1092.3
%RSD	.7024527	.9146738	.6309039
#1	1106.996	1115.614	171877.9
#2	1117.641	1098.947	173851.7
#3	1102.465	1097.404	173675.7
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: SDI1407192-01 OPERATOR:
RUN TIME: 08/11/14 15:28:21
COMMENT: SDG:1407192 CLIENTID:MW-9L 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.407433	52.27005	432.2894	-1.65527	11055.72	-1.38053	-2.52274
SDEV	.272658	3.76357	12.7716	1.69118	265.64	.44067	2.34443
%RSD	66.92089	7.200240	2.954415	102.1691	2.402733	31.92044	92.93218
#1	-.721627	55.15245	446.6414	-3.60725	11361.08	-.895227	.1087657
#2	-.232900	53.64547	422.1757	-.629903	10928.21	-1.49069	-3.28825
#3	-.267772	48.01225	428.0512	-.728674	10877.88	-1.75566	-4.38873
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.158553	-.481007	1047.078	329.4533	9038.803	200.3017	246.3432
SDEV	.780737	.725812	37.916	6.4583	255.811	5.7286	75.9912
%RSD	492.4131	150.8941	3.621163	1.960311	2.830141	2.859971	30.84770
#1	-.294083	-.564009	1077.112	336.8313	9332.930	206.8630	170.0124
#2	.6810755	.2827370	1059.650	326.7045	8915.327	197.7482	247.0269
#3	-.862652	-1.16175	1004.473	324.8243	8868.152	196.2939	321.9902
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.446188	4.982564	.9182060	.2740923	-.599771	.8413693	4.435516
SDEV	1.418354	4.919303	.1163894	.2286952	.867816	2.365535	4.612345
%RSD	41.15719	98.73034	12.67574	83.43729	144.6912	281.1530	103.9866
#1	2.701542	10.62830	.9356380	.2546331	.1137964	1.753836	-.550740
#2	5.081783	2.701756	1.024896	.5118954	-1.56583	-1.84451	8.549340
#3	2.555240	1.617641	.7940838	.0557485	-.347276	2.614779	5.307950
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.865805	-1.02965	-.385239	.5939020	.9648472	-.466576	3.301041
SDEV	2.167201	6.20643	2.338951	6.216274	1.087724	2.076862	1.413342
%RSD	75.62274	602.7726	607.1432	1046.684	112.7353	445.1284	42.81505
#1	3.763390	-.824123	.5819647	.8812309	2.189414	1.752505	4.925960
#2	4.440010	-7.33629	1.314982	-5.76105	.1107597	-2.36359	2.357181
#3	.3940167	5.071469	-3.05266	6.661529	.5943675	-.788642	2.619983
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.1768995	6.665259	174507.0
SDEV	.4762553	1.105936	3326.1
%RSD	269.2236	16.59255	1.905971
#1	.0673038	7.813637	170667.3
#2	.6983993	6.574824	176500.9
#3	-.235005	5.607318	176352.7
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 4080603-PS1 OPERATOR:
RUN TIME: 08/11/14 15:38:33
COMMENT: SDG:1407192 CLIENTID:MW-9A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	107.5013	4988.157	6347.082	108.0115	163967.1	107.6509	434.1581
SDEV	.9675	32.176	16.467	.4570	586.0	.4670	4.4671
%RSD	.9000157	.6450543	.2594453	.4230627	.3573642	.4338317	1.028903
#1	106.9428	5002.769	6365.931	107.8495	163986.8	107.6469	433.0683
#2	108.6185	5010.435	6335.488	107.6576	164542.9	108.1200	439.0692
#3	106.9425	4951.268	6339.827	108.5274	163371.5	107.1860	430.3368
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	213.9513	108.4693	9034.039	109685.3	153610.5	1172.304	117236.5
SDEV	.8098	1.0054	81.771	994.6	938.6	8.521	731.4
%RSD	.3784794	.9268593	.9051469	.9067728	.6110553	.7268713	.6238785
#1	213.0376	107.3482	9044.289	110177.4	153636.9	1169.098	117624.1
#2	214.5799	109.2909	9110.202	110337.9	154535.7	1181.964	117692.6
#3	214.2366	108.7689	8947.626	108540.6	152659.0	1165.851	116392.9
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	231.3854	673.1850	422.2788	647.3714	213.0044	202.5154	657.8282
SDEV	1.2074	5.9780	1.2371	6.0468	1.7039	.2590	2.2677
%RSD	.5218309	.8880240	.2929556	.9340478	.7999161	.1278733	.3447263
#1	230.9506	669.1299	421.3754	647.0035	213.8046	202.4736	656.5259
#2	232.7500	680.0503	421.7723	653.5937	214.1609	202.2799	660.4467
#3	230.4556	670.3748	423.6888	641.5170	211.0478	202.7927	656.5120
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	219.1126	214.5108	212.2523	199.2528	204.1441	1092.296	1055.348
SDEV	2.3032	1.8120	1.6499	2.7069	1.0466	11.526	4.182
%RSD	1.051139	.8447284	.7773231	1.358546	.5126988	1.055200	.3962479
#1	217.7775	215.3501	213.0330	200.5639	203.4269	1098.812	1050.879
#2	221.7721	215.7511	213.3670	196.1400	205.3452	1099.087	1055.997
#3	217.7882	212.4313	210.3570	201.0547	203.6604	1078.988	1059.166
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1090.626	1115.217	170192.5
SDEV	3.124	8.303	1328.1
%RSD	.2864485	.7444888	.7803356
#1	1087.140	1115.114	168818.0
#2	1093.174	1123.571	170290.9
#3	1091.563	1106.967	171468.7
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1407192-02 OPERATOR:
RUN TIME: 08/11/14 15:45:46
COMMENT: SDG:1407192 CLIENTID:MW-6 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.325944	153.0088	51.14421	.1319799	93440.48	-.166130	.8430908
SDEV	.649611	7.9777	.13527	.4700254	304.93	.107157	.2659217
%RSD	199.3014	5.213905	.2644887	356.1343	.3263335	64.50183	31.54130
#1	-.407398	157.0405	51.14137	.0139823	93109.21	-.081660	1.146896
#2	.3605526	158.1660	51.28088	.6497611	93502.80	-.130064	.6525701
#3	-.930988	143.8198	51.01039	-.267804	93709.44	-.286667	.7298066
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	24.23537	2.465749	71.51469	1342.634	50892.47	8.003258	5062.912
SDEV	.35252	.125141	1.93355	2.696	173.72	.044645	225.859
%RSD	1.454559	5.075165	2.703716	.2007949	.3413528	.5578334	4.461059
#1	24.09488	2.449138	69.32997	1340.223	50842.42	7.984810	5015.067
#2	23.97476	2.349744	72.20843	1345.545	51085.73	8.054171	4864.807
#3	24.63648	2.598367	73.00566	1342.135	50749.27	7.970794	5308.860
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	42.13314	-2.38825	.7392545	.5700058	-.434075	.8358561	7.242247
SDEV	.57445	3.64424	.3874581	.2537389	1.741450	1.374034	2.926459
%RSD	1.363406	152.5904	52.41199	44.51514	401.1859	164.3864	40.40816
#1	42.55699	-.225450	.7019530	.8514714	-.043981	1.816946	10.45004
#2	42.36310	-6.59571	1.144014	.4997446	1.079244	1.425157	4.718183
#3	41.47935	-.343596	.3717962	.3588014	-2.33749	-.734534	6.558518
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.890181	3.535086	-2.41577	-3.87528	3.187825	1.369951	8.883691
SDEV	3.029434	1.609003	1.84926	.19756	2.001653	1.466381	.441426
%RSD	340.3166	45.51524	76.54964	5.097881	62.79055	107.0389	4.968951
#1	-.690305	3.395503	-1.76123	-3.64719	4.544846	.0251332	8.376818
#2	2.034365	5.209333	-.982793	-3.99209	4.129649	2.933354	9.090575
#3	-4.01460	2.000422	-4.50328	-3.98658	.8889799	1.151366	9.183679
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.5853811	17.32694	172053.0
SDEV	.2011516	.70798	875.5
%RSD	34.36251	4.086013	.5088407
#1	.5740125	17.79823	171568.5
#2	.7919759	17.66979	171526.8
#3	.3901548	16.51281	173063.6
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1407192-03 OPERATOR:
RUN TIME: 08/11/14 15:52:59
COMMENT: SDG:1407192 CLIENTID:MW-7 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.745101	156.5488	321.7860	.1078119	95443.39	-.202687	2.169784
SDEV	.503772	15.8815	2.9057	.4863913	327.99	.151620	1.052836
%RSD	67.61128	10.14474	.9030023	451.1481	.3436511	74.80509	48.52262
#1	-1.03590	174.8802	318.4323	-.231185	95074.09	-.202286	3.384985
#2	-1.03601	146.9487	323.3759	.6651084	95700.77	-.354507	1.531704
#3	-.163395	147.8173	323.5499	-.110488	95555.33	-.051268	1.592664
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.473081	.7647614	52.67619	3461.054	48620.70	21.03182	13418.61
SDEV	.435712	.3154314	4.25409	1.102	200.63	.09652	208.81
%RSD	5.142303	41.24572	8.075918	.0318499	.4126506	.4589291	1.556141
#1	8.976019	.4821736	55.34276	3459.865	48837.19	21.13473	13283.10
#2	8.233214	1.105066	54.91562	3461.253	48441.03	20.94331	13659.08
#3	8.210010	.7070453	47.77019	3462.043	48583.89	21.01742	13313.65
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.47724	-5.25169	2.175778	1.652515	1.980420	-.217147	8.690486
SDEV	.57820	1.45420	.758831	.563553	.699580	1.798810	2.344849
%RSD	4.290196	27.69019	34.87631	34.10278	35.32482	828.3822	26.98180
#1	14.00243	-6.36594	1.457336	2.157862	2.664289	-2.23182	11.20697
#2	13.57165	-3.60666	2.100596	1.754890	1.266123	1.227853	8.297566
#3	12.85765	-5.78248	2.969402	1.044791	2.010849	.3525203	6.566918
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.946782	5.486700	.2298212	-6.86119	3.099824	1.166216	5.159196
SDEV	2.213418	1.563100	.2699470	4.32303	.553109	.347944	1.126008
%RSD	113.6962	28.48889	117.4596	63.00693	17.84325	29.83532	21.82527
#1	4.198524	6.983977	.5075954	-11.7597	2.524935	1.517975	6.432596
#2	1.868033	3.865191	-.031551	-3.58022	3.628218	1.158457	4.749950
#3	-.226210	5.610933	.2134187	-5.24361	3.146320	.8222162	4.295043
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	2.006466	11.36110	171946.8
SDEV	.255575	.33993	1294.0
%RSD	12.73757	2.992029	.7525598
#1	1.867571	11.75271	170475.7
#2	2.301413	11.14214	172455.8
#3	1.850415	11.18846	172908.9
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1407192-04 OPERATOR:
RUN TIME: 08/11/14 16:00:12
COMMENT: SDG:1407192 CLIENTID:MW-8 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.861121	137.9547	228.1039	-.400622	55212.77	-.852035	7.302296
SDEV	.527023	7.2515	4.7920	1.262777	736.05	.109459	.746689
%RSD	61.20198	5.256424	2.100796	315.2043	1.333122	12.84677	10.22539
#1	-.302651	140.9938	223.6620	.9510276	54364.81	-.977987	6.534753
#2	-1.34973	143.1922	233.1824	-.602749	55686.73	-.779930	8.026217
#3	-.930984	129.6782	227.4674	-1.55014	55586.77	-.798188	7.345917
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.08674	.1496834	5780.618	1197.432	35701.44	2922.673	2324.609
SDEV	.84907	.4491352	72.437	18.216	447.79	44.880	184.665
%RSD	78.13013	300.0567	1.253098	1.521220	1.254261	1.535597	7.943909
#1	-1.25288	.5813623	5699.386	1178.361	35229.46	2872.217	2153.801
#2	-1.84047	-.315079	5838.501	1214.651	36120.30	2958.144	2520.555
#3	-.166881	.1827666	5803.966	1199.284	35754.56	2937.658	2299.471
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.584401	-6.46199	.5408921	13.46710	.2619464	2.178142	3.509005
SDEV	.848385	1.18578	.2238309	.44143	1.656442	1.048663	1.911215
%RSD	9.882864	18.35012	41.38180	3.277858	632.3591	48.14487	54.46601
#1	9.288288	-7.48856	.5958054	13.97620	1.491440	1.945340	3.604881
#2	7.642404	-6.73339	.7321560	13.19071	.9160814	1.265442	1.551656
#3	8.822513	-5.16404	.2947149	13.23439	-1.62168	3.323643	5.370478
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.774131	5.046007	-2.12658	-1.83673	4.182499	1.080145	1.948700
SDEV	.714422	7.787775	1.40486	1.36058	2.150268	1.204250	.218326
%RSD	40.26884	154.3354	66.06168	74.07633	51.41108	111.4897	11.20368
#1	1.895262	10.88279	-3.19728	-2.54013	4.184643	1.278177	2.071912
#2	1.006888	8.052002	-2.64662	-.268435	2.031160	2.173104	2.077568
#3	2.420245	-3.79677	-.535854	-2.70163	6.331694	-.210847	1.696620
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1.211642	10.71227	169946.9
SDEV	.229398	.57441	1142.5
%RSD	18.93286	5.362188	.6722907
#1	1.469650	11.19083	170405.9
#2	1.030702	10.87071	168646.2
#3	1.134572	10.07526	170788.6
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: LLCCV OPERATOR:
RUN TIME: 08/11/14 16:07:24
COMMENT: LLCCV
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.500306	244.4342	195.6558	4.388340	4891.380	4.731986	17.27895
SDEV	.845221	11.9840	.0852	.975027	69.141	.116947	1.29314
%RSD	18.78141	4.902733	.0435485	28.77594	1.413527	2.471417	7.483901
#1	3.534582	257.6363	195.5585	3.675563	4812.684	4.860851	18.72944
#2	4.860979	241.4238	195.6923	3.989984	4919.078	4.632597	16.24667
#3	5.105359	234.2424	195.7167	5.499473	4942.377	4.702512	16.86075
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	20.00000
RANGE	1.500000	60.00000	60.00000	1.500000	1500.000	1.500000	6.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.945451	3.587134	165.5345	5397.356	4920.023	9.862267	5178.402
SDEV	.703073	.252080	8.4117	6.449	15.526	.049693	106.840
%RSD	7.859557	7.027336	5.081535	.1194766	.3155731	.5038660	2.063193
#1	9.627896	Q3.429046	156.0083	5403.412	4937.362	9.857424	5172.040
#2	8.223423	Q3.454518	171.9394	5398.081	4915.303	9.914205	5074.886
#3	8.985034	3.877839	168.6556	5390.576	4907.405	9.815174	5288.282
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	5.000000	200.0000	5000.000	5000.000	10.00000	5000.000
RANGE	3.000000	1.500000	60.00000	1500.000	1500.000	3.000000	1500.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.880888	31.56734	19.11807	28.48387	7.079889	9.683993	31.14845
SDEV	.487246	1.81008	.65175	.08327	1.348500	1.990757	2.53239
%RSD	4.931197	5.734018	3.409054	.2923331	19.04690	20.55719	8.130064
#1	9.605523	29.58068	18.36631	28.57956	Q5.556279	7.964007	30.35794
#2	10.44347	31.99829	19.52417	28.42791	7.563467	9.223247	29.10560
#3	9.593672	33.12304	19.46374	28.44415	8.119922	11.86472	33.98180
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	30.00000	20.00000	30.00000	10.00000	10.00000	30.00000
RANGE	3.000000	9.000000	6.000000	9.000000	3.000000	3.000000	9.000000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.07873	4.985467	8.125446	8.544385	10.25287	51.63014	48.67299
SDEV	1.92054	3.207151	.955076	1.432799	2.33316	2.27382	.63601
%RSD	19.05538	64.33001	11.75414	16.76889	22.75617	4.404047	1.306702
#1	12.16209	2.127051	7.268238	7.791789	8.049919	51.65124	48.33859
#2	8.378885	4.375577	9.154938	7.644709	10.01127	53.89334	48.27394
#3	9.695218	8.453771	7.953163	10.19666	12.69744	49.34585	49.40644
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	10.00000					50.00000	50.00000
RANGE	3.000000					15.00000	15.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	49.08907	49.69030	178312.7
SDEV	.62170	.72664	1446.0
%RSD	1.266472	1.462335	.8109217
#1	48.40283	50.52112	176675.2
#2	49.24966	49.17334	178848.7
#3	49.61472	49.37645	179414.1
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	50.00000	50.00000	
RANGE	15.00000	15.00000	

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METHOD: P4S12014 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 08/11/14 16:14:38
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	100.1181	54408.06	986.1265	970.8857	51098.90	995.0696	965.5115
SDEV	.0603	422.40	1.9558	5.2951	259.59	5.3457	8.0858
%RSD	.0602594	.7488216	.1983310	.5453902	.5080209	.5372210	.8374593
#1	100.0842	54100.98	986.4415	965.0552	50821.77	999.6146	964.1902
#2	100.0824	54889.77	987.9057	972.2062	51336.39	996.4143	974.1765
#3	100.1878	54233.43	984.0323	975.3955	51138.55	989.1799	958.1677
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	987.3821	1003.962	24881.20	53046.79	50567.75	980.9668	54303.03
SDEV	5.3325	4.028	158.48	379.61	320.50	4.5296	393.15
%RSD	.5400608	.4011769	.6369363	.7156053	.6338021	.4617460	.7240002
#1	981.6872	1005.835	24855.90	53124.90	50553.50	978.3400	54301.08
#2	992.2571	1006.712	25050.80	53381.26	50895.14	986.1971	54697.16
#3	988.2021	999.3392	24736.89	52634.20	50254.62	978.3633	53910.86
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1002.324	1014.251	958.7781	995.3935	992.9181	985.8157	1024.537
SDEV	4.309	2.483	5.4841	6.1009	6.9049	10.1950	6.772
%RSD	.4299381	.2447630	.5719922	.6129096	.6954181	1.034173	.6609762
#1	1003.689	1012.081	952.8585	996.0325	992.7704	990.8661	1032.188
#2	1005.786	1013.715	963.6857	1001.150	999.8957	992.4996	1019.313
#3	997.4981	1016.958	959.7903	988.9983	986.0882	974.0813	1022.111
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	973.5701	981.1603	998.7884	1013.538	971.9751	1009.712	960.9663
SDEV	5.1721	8.9383	6.2098	15.374	7.8255	6.912	1.3700
%RSD	.5312490	.9109945	.6217365	1.516881	.8051089	.6845310	.1425620
#1	979.4947	983.9335	997.1825	1023.740	974.4535	1006.867	959.4274
#2	971.2587	988.3833	1005.643	1021.019	978.2613	1017.592	961.4184
#3	969.9567	971.1641	993.5393	995.8553	963.2106	1004.676	962.0531
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1008.215	1027.307	175859.0
SDEV	6.356	3.687	834.2
%RSD	.6303939	.3589271	.4743445
#1	1000.931	1026.735	175735.9
#2	1011.081	1031.247	175093.2
#3	1012.633	1023.940	176747.9
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

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METHOD: P4S12014 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 08/11/14 16:21:57
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.698230	32.36626	-.210595	-.850573	-134.428	-.882680	-3.55040
SDEV	.533268	9.60750	.084605	.568075	11.842	.702345	2.37327
%RSD	76.37425	29.68370	40.17435	66.78739	8.809387	79.56966	66.84511
#1	-.581817	41.78743	-.307953	-1.24007	-133.022	-.684998	-2.59824
#2	-1.28009	22.58268	-.168921	-.198737	-146.910	-1.66268	Q-6.25188
#3	-.232785	32.72867	-.154910	-1.11291	-123.351	-.300360	-1.80106
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.376199	-1.24506	12.58681	9.184257	7.785961	.1089402	132.6818
SDEV	.691948	.36280	4.85528	9.093862	3.061705	.2147162	102.1465
%RSD	183.9316	29.13925	38.57438	99.01575	39.32340	197.0955	76.98606
#1	.0638503	-.987874	17.15600	3.038031	10.61070	.3357419	47.02247
#2	-.018677	-1.08728	13.11568	4.884023	8.214691	-.091200	105.2921
#3	-1.17377	-1.66004	7.488740	19.63072	4.532488	.0822789	245.7309
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.121303	.3304804	.1752565	-.154807	-.971544	-1.71407	-.962435
SDEV	.369681	2.610406	.2453819	.120815	1.855231	2.06275	1.626613
%RSD	304.7584	789.8821	140.0131	78.04209	190.9569	120.3418	169.0101
#1	.0924081	-1.78251	-.108086	-.286656	-2.81792	-2.54789	-.347309
#2	-.548173	-.474655	.3165870	-.128355	.8924141	-3.22938	.2669091
#3	.0918566	3.248607	.3172683	-.049410	-.989124	.6350586	-2.80691
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.400584	-3.33151	.2065839	-2.26957	-1.43681	2.115594	4.644088
SDEV	.943100	3.44737	2.198610	5.42032	1.27291	.463469	1.207336
%RSD	67.33619	103.4777	1064.270	238.8257	88.59311	21.90729	25.99726
#1	1.866316	-7.02866	-.715796	-6.67139	-.489301	2.316867	6.033564
#2	.3152173	-2.76068	2.716138	-3.92194	-2.88369	2.444399	3.850976
#3	2.020220	-.205186	-1.38059	3.784623	-.937431	1.585515	4.047724
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	10.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	-.287152	2.443282	178000.0
SDEV	.243965	1.132147	3445.4
%RSD	84.96027	46.33713	1.935600
#1	-.009325	3.750023	176405.1
#2	-.466415	1.822760	181953.9
#3	-.385717	1.757064	175641.1
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	40.00000	200.0000	

METHOD: P4S12014 SAMPLE NAME: 4081101-BLK1 OPERATOR:
RUN TIME: 08/11/14 16:31:43
COMMENT: SDG:1408019 CLIENTID:PBSFD 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.826295	110.6337	.6087428	.6085932	616.9175	-.275404	-2.29568
SDEV	.034975	9.4571	.0462328	.3767630	3.4323	.254450	.21050
%RSD	4.232733	2.303040	7.594804	61.90720	.5563590	92.39150	9.169372
#1	-.791293	121.5394	.6366435	1.042885	619.7112	-.163411	-2.28377
#2	-.861243	105.6648	.5553763	.3692324	613.0861	-.096160	-2.09139
#3	-.826350	104.6968	.6342087	.4136624	617.9551	-.566641	-2.51188
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-5.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.513716	-1.09546	44.83427	60.81946	33.58597	.5858834	445.1694
SDEV	.709918	.55512	5.19563	4.12457	2.34908	.1403638	130.6589
%RSD	46.89901	50.67444	11.58851	6.781659	6.994238	23.95763	29.35037
#1	2.222278	-.464863	46.27057	56.05690	33.24518	.7438932	329.1090
#2	1.516419	-1.31117	49.16066	63.22545	31.42590	.4756269	586.6815
#3	.8024505	-1.51034	39.07159	63.17602	36.08684	.5381299	419.7177
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000
LOW	-5.00000	-5.00000	-100.000	-5000.00	-5000.00	-10.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6051031	-5.91458	.5586446	4.450162	H4.149933	.6287078	H12.41450
SDEV	.6702524	2.43022	.4862020	.215671	.359650	2.168136	2.08878
%RSD	110.7666	41.08866	87.03243	4.846354	8.666403	344.8559	16.82529
#1	1.194887	-8.20425	.0006024	4.570622	H4.515348	-.679370	H14.57289
#2	.7442100	-6.17474	.7844300	4.578693	H3.796340	-.565905	H12.26750
#3	-.123787	-3.36474	.8909014	4.201170	H4.138112	3.131398	H10.40310
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC HIGH
HIGH	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000
LOW	-40.0000	-10.0000	-20.0000	-20.0000	-3.00000	-5.00000	-10.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.8511448	11.89987	.2806856	-14.7261	8.294517	21.81502	3.620578
SDEV	.7734568	1.75997	1.240576	3.7818	1.460160	2.96044	.455560
%RSD	90.87252	14.78980	441.9807	25.68091	17.60391	13.57067	12.58252
#1	.1318858	10.16636	1.693991	-17.7411	7.838612	19.18929	3.167242
#2	.7522602	11.84811	-.223596	-15.9543	7.116702	25.02351	4.078330
#3	1.669288	13.68515	-.628338	-10.4828	9.928235	21.23225	3.616163
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	10.00000					100.0000	5.000000
LOW	-10.0000					-100.000	-5.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1.047611	51.27052	169130.3
SDEV	.231040	.44573	240.8
%RSD	22.05399	.8693760	.1423969
#1	1.013948	51.36892	169106.7
#2	.8352493	50.78380	168902.1
#3	1.293636	51.65883	169382.1
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	40.00000	200.0000	
LOW	-40.0000	-200.000	

METHOD: P4S12014 SAMPLE NAME: 4081101-BS1 OPERATOR:
RUN TIME: 08/11/14 16:38:56
COMMENT: SDG:1408019 CLIENTID:MLCSFD 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	412.1925	84126.86	2610.803	1261.445	63865.10	1449.355	670.5836
SDEV	.7123	584.64	13.720	5.670	138.10	3.508	1.5832
%RSD	.1727997	.6949452	.5255267	.4494530	.2162333	.2420085	.2360916
#1	412.4373	83590.05	2595.234	1255.499	63749.57	1449.816	668.7576
#2	411.3901	84040.74	2621.127	1262.047	63827.67	1445.639	671.5742
#3	412.7501	84749.77	2616.049	1266.790	64018.05	1452.608	671.4188
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	556.0000	128000.0	3070.000	1570.000	75400.00	1790.000	804.0000
LOW	330.0000	46800.00	2170.000	1090.000	52600.00	1240.000	570.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1133.387	656.9147	108260.6	30196.47	33612.65	5450.235	8600.420
SDEV	4.680	3.6263	272.5	41.32	155.82	24.678	38.981
%RSD	.4128921	.5520241	.2517073	.1368217	.4635778	.4527927	.4532508
#1	1128.269	655.5438	108021.1	30224.06	33441.79	5422.505	8556.363
#2	1134.442	654.1736	108203.6	30148.97	33649.23	5469.783	8614.458
#3	1137.448	661.0266	108557.1	30216.38	33746.93	5458.418	8630.438
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1410.000	818.0000	197000.0	39400.00	44400.00	6670.000	9570.000
LOW	929.0000	555.0000	49500.00	21400.00	27600.00	4580.000	5350.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3100.935	2618.107	1094.527	2976.077	2384.581	1420.928	707.7233
SDEV	8.379	9.630	5.195	8.890	11.544	9.936	4.3947
%RSD	.2702176	.3678343	.4746476	.2987206	.4841222	.6992557	.6209630
#1	3095.102	2613.012	1092.043	2966.052	2377.152	1418.366	703.0001
#2	3097.166	2612.095	1091.040	2979.178	2397.881	1431.894	711.6916
#3	3110.536	2629.214	1100.498	2983.002	2378.710	1412.524	708.4783
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3710.000	3150.000	1430.000	3680.000	3010.000	1980.000	2320.000
LOW	2590.000	2040.000	888.0000	2450.000	2070.000	1250.000	.0000000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1393.828	2367.549	2393.084	1444.984	1408.918	1113.637	749.4999
SDEV	3.894	15.506	19.198	8.051	14.492	5.365	2.5130
%RSD	.2793992	.6549599	.8022239	.5571872	1.028579	.4817837	.3352958
#1	1398.269	2353.028	2389.196	1435.688	1409.717	1109.389	746.8285
#2	1390.996	2365.737	2413.929	1449.722	1422.994	1111.854	749.8539
#3	1392.219	2383.882	2376.128	1449.543	1394.043	1119.666	751.8171
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	1810.000					1400.000	972.0000
LOW	1220.000					863.0000	598.0000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	2399.617	1207.391	163788.8
SDEV	7.579	8.792	679.7
%RSD	.3158532	.7282227	.4150107
#1	2390.922	1197.993	164556.1
#2	2404.823	1208.766	163262.2
#3	2403.107	1215.416	163547.9
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	4310.000	1550.000	
LOW	818.0000	893.0000	

METHOD: P4S12014 SAMPLE NAME: 4081101-BSD1 OPERATOR:
RUN TIME: 08/11/14 16:46:09
COMMENT: SDG:1408019 CLIENTID:MLCSDFD 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	411.5881	84768.59	2659.976	1268.812	66869.56	1448.586	664.5660
SDEV	2.5966	395.75	16.360	1.731	63.61	11.895	4.9977
%RSD	.6308621	.4668571	.6150577	.1364585	.0951327	.8211592	.7520289
#1	408.5981	84388.23	2661.962	1268.514	66797.40	1461.997	670.1923
#2	412.8910	84739.43	2642.714	1270.673	66917.53	1439.311	660.6412
#3	413.2753	85178.12	2675.253	1267.249	66893.75	1444.450	662.8644
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	556.0000	128000.0	3070.000	1570.000	75400.00	1790.000	804.0000
LOW	330.0000	46800.00	2170.000	1090.000	52600.00	1240.000	570.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1131.768	652.4382	107087.2	30240.96	33278.39	5529.763	8545.688
SDEV	6.007	5.5229	352.8	251.53	232.77	11.937	29.204
%RSD	.5307351	.8465018	.3294553	.8317617	.6994577	.2158732	.3417407
#1	1125.315	646.6753	107381.0	30189.15	33543.50	5520.759	8548.352
#2	1137.196	652.9542	106695.9	30019.37	33107.50	5525.225	8515.242
#3	1132.793	657.6849	107184.9	30514.36	33184.19	5543.303	8573.468
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1410.000	818.0000	197000.0	39400.00	44400.00	6670.000	9570.000
LOW	929.0000	555.0000	49500.00	21400.00	27600.00	4580.000	5350.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3087.163	2609.812	1089.816	3017.930	2395.923	1402.076	710.7696
SDEV	9.876	12.098	3.395	28.907	14.340	20.664	3.4417
%RSD	.3198927	.4635521	.3115149	.9578484	.5985244	1.473847	.4842286
#1	3098.550	2623.551	1086.000	3049.700	2403.003	1418.476	708.2770
#2	3081.990	2605.133	1092.501	2993.177	2379.419	1378.866	709.3353
#3	3080.947	2600.753	1090.948	3010.914	2405.346	1408.885	714.6966
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3710.000	3150.000	1430.000	3680.000	3010.000	1980.000	2320.000
LOW	2590.000	2040.000	888.0000	2450.000	2070.000	1250.000	.0000000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1396.810	2381.142	2403.302	1418.986	1393.633	1115.019	749.7784
SDEV	7.909	9.793	24.592	17.968	22.030	12.608	3.4173
%RSD	.5662309	.4112670	1.023253	1.266245	1.580765	1.130761	.4557690
#1	1405.686	2386.852	2411.066	1432.390	1411.530	1123.398	753.0390
#2	1394.234	2386.738	2375.765	1398.569	1369.029	1100.519	746.2235
#3	1390.510	2369.834	2423.075	1425.998	1400.341	1121.140	750.0726
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	1810.000					1400.000	972.0000
LOW	1220.000					863.0000	598.0000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	2392.093	1209.696	163597.6
SDEV	9.161	4.222	1628.8
%RSD	.3829527	.3489758	.9956400
#1	2382.876	1214.306	161724.2
#2	2401.196	1206.021	164679.5
#3	2392.210	1208.760	164389.1
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	4310.000	1550.000	
LOW	818.0000	893.0000	

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METHOD: P4S12014 SAMPLE NAME: 1408019-01 OPERATOR:
RUN TIME: 08/11/14 16:53:22
COMMENT: SDG:1408019 CLIENTID:P001-COMP01-LW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.19865	184.7249	3.264444	2.153439	249.9088	4.514883	-6.11798
SDEV	.93673	8.8516	.349554	1.254159	8.0977	.335741	.78739
%RSD	78.14933	4.791769	10.70792	58.23984	3.240267	7.436314	12.87017
#1	-.477293	194.0111	3.450098	3.522079	251.7589	4.899906	-5.22198
#2	-.861321	176.3838	3.482001	1.879036	256.9214	4.283130	-6.69970
#3	-2.25733	183.7797	2.861234	1.059200	241.0462	4.361613	-6.43225
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.963335	460.9460	501.6562	255.1595	63.69737	6.019071	1436.957
SDEV	.846607	1.8077	18.0209	17.4666	9.28747	.219724	470.166
%RSD	43.12087	.3921762	3.592278	6.845355	14.58061	3.650462	32.71955
#1	2.738193	460.5894	514.8628	270.6946	72.63712	6.238270	1864.865
#2	1.059728	462.9055	481.1266	258.5308	64.35756	5.798826	1512.360
#3	2.092083	459.3432	508.9793	236.2530	54.09742	6.020118	933.6467
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.049430	-3.57958	.4552718	780.9550	12.49617	4.316592	13.81262
SDEV	.237717	3.87116	1.314916	4.3677	1.64514	2.075772	7.31111
%RSD	11.59919	108.1456	288.8200	.5592817	13.16515	48.08822	52.93066
#1	2.239405	-1.46171	1.162456	783.9398	13.12963	2.388904	22.02960
#2	2.126028	-1.22944	1.265261	782.9833	13.73042	4.046806	11.38142
#3	1.782857	-8.04761	-1.06190	775.9419	10.62846	6.514067	8.026846
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.558962	16.93725	10.27887	-16.3737	14.64616	25.95760	4.176370
SDEV	2.931871	8.94182	2.12158	5.1530	4.92639	3.92214	1.469196
%RSD	82.37996	52.79384	20.64021	31.47138	33.63604	15.10981	35.17877
#1	5.833334	18.21726	10.58955	-17.0608	12.09911	28.96463	5.336984
#2	.2500730	25.17009	8.019079	-10.9116	11.51473	27.38693	4.667636
#3	4.593478	7.424399	12.22798	-21.1487	20.32466	21.52124	2.524491
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.7221018	93.13477	162384.8
SDEV	.4515820	2.10347	950.9
%RSD	62.53716	2.258519	.5855585
#1	1.094085	95.51501	162717.0
#2	.2196491	92.36352	163125.1
#3	.8525711	91.52580	161312.5
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: SDI1408019-01 OPERATOR:
RUN TIME: 08/11/14 17:00:34
COMMENT: SDG:1408019 CLIENTID:P001-COMP01-LWL 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.081619	-1.17603	.7963531	.8045513	-19.0373	-1.80231	-14.6886
SDEV	.716558	15.28311	.1380507	2.019751	22.2597	.15080	1.2560
%RSD	877.9347	1299.556	17.33537	251.0406	116.9267	8.367014	8.550527
#1	-.686756	16.00503	.6913494	3.120215	-44.2623	-1.77646	-13.4566
#2	-.267733	-6.27627	.7449865	-.593424	-10.6989	-1.96436	-15.9672
#3	.7096336	-13.2568	.9527235	-.113137	-2.15068	-1.66610	-14.6420
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.660568	91.90909	91.15586	68.73248	14.93924	1.087761	652.4335
SDEV	1.873129	1.39182	39.93222	6.92279	12.45603	.240572	72.6252
%RSD	283.5633	1.514344	43.80653	10.07208	83.37793	22.11622	11.13144
#1	-2.52535	90.43161	45.44800	64.06769	.7832181	.8489270	568.8685
#2	1.220800	93.19551	119.2706	65.44306	24.22132	1.330033	700.3063
#3	-.677157	92.10014	108.7490	76.68669	19.81318	1.084322	688.1258
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.395076	-3.12437	1.000036	150.6592	2.015299	1.266636	4.227642
SDEV	.943075	5.60214	.391130	.7407	.683008	2.504194	4.914465
%RSD	238.7074	179.3046	39.11162	.4916699	33.89113	197.7044	116.2460
#1	-1.47132	-1.34325	1.180493	149.8957	2.507153	-.499759	3.208368
#2	.2867917	-9.40053	.5512557	151.3749	2.303281	4.132477	9.571819
#3	-.000698	1.370666	1.268359	150.7068	1.235463	.1671891	-.097261
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.15042	7.690101	-.817917	3.205528	.2985760	7.235838	2.246621
SDEV	1.19580	1.667703	.339885	1.563104	3.403354	2.003403	.671131
%RSD	103.9443	21.68636	41.55497	48.76275	1139.862	27.68723	29.87292
#1	-2.40020	9.288068	-.878289	1.408803	-1.45268	4.942209	1.682984
#2	-1.03393	7.821767	-.451892	3.955138	4.220947	8.643565	2.067838
#3	-.017132	5.960467	-1.12357	4.252644	-1.87254	8.121739	2.989039
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	-.354508	18.27852	181336.4
SDEV	.943695	.52945	3878.8
%RSD	266.1986	2.896551	2.139009
#1	-1.33241	17.86792	176859.7
#2	.5507813	18.87608	183694.6
#3	-.281892	18.09157	183454.9
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408019-02 OPERATOR:
RUN TIME: 08/11/14 17:07:47
COMMENT: SDG:1408019 CLIENTID:P001-DR0314-LW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.861285	101.7360	5.394464	1.382916	229.2146	-1.41977	-13.7656
SDEV	.367790	10.6291	.254511	.357662	35.2259	.35119	1.1679
%RSD	42.70242	10.44776	4.718000	25.86290	15.36807	24.73560	8.483892
#1	-.896156	113.5805	5.428293	1.459963	197.1965	-1.06239	-12.4892
#2	-1.21040	98.59922	5.124731	1.695775	266.9491	-1.76443	-14.0271
#3	-.477302	93.02825	5.630369	.9930093	223.4982	-1.43250	-14.7806
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.490449	43.68032	180.6567	24805.66	93.83397	3.988318	21778.51
SDEV	.416132	.62633	3.9064	123.25	6.39365	.144693	154.69
%RSD	27.91992	1.433885	2.162335	.4968561	6.813792	3.627920	.7103102
#1	1.014718	42.96631	185.1619	24923.81	90.98510	4.043997	21842.10
#2	1.669784	43.93769	178.5974	24677.88	89.35995	4.096901	21602.16
#3	1.786845	44.13696	178.2109	24815.29	101.1569	3.824057	21891.29
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	33.28557	-6.89306	1.047068	544.0409	26.10290	6.023015	17.74685
SDEV	.54538	4.05195	.217426	5.0465	1.02711	2.901250	1.41130
%RSD	1.638497	58.78313	20.76518	.9275925	3.934835	48.16940	7.952403
#1	33.88160	-5.22767	.8034043	548.0251	26.29912	7.788714	16.97531
#2	33.16364	-11.5123	1.116509	538.3662	24.99184	2.674607	16.88950
#3	32.81147	-3.93917	1.221291	545.7315	27.01774	7.605726	19.37572
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.034510	30.76259	23.77647	-5.03769	11.54501	27.47555	262.7269
SDEV	.543624	.67412	1.34727	4.17767	5.38049	1.96224	.5459
%RSD	7.727954	2.191374	5.666385	82.92834	46.60449	7.141770	.2077757
#1	6.456892	30.25963	24.32176	-9.72707	16.53340	29.11750	262.9267
#2	7.110493	30.49955	22.24204	-3.67290	5.843534	25.30240	263.1447
#3	7.536144	31.52857	24.76562	-1.71309	12.25808	28.00677	262.1092
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1.235723	2583.698	175739.0
SDEV	.129538	4.213	1619.5
%RSD	10.48274	.1630418	.9215212
#1	1.257076	2584.596	173888.7
#2	1.353257	2579.108	176430.1
#3	1.096835	2587.388	176898.3
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408019-03 OPERATOR:
RUN TIME: 08/11/14 17:14:59
COMMENT: SDG:1408019 CLIENTID:P001-PL0202-SW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.16378	61.32665	.3332824	2.009079	146.4409	-2.58722	-13.7203
SDEV	.35824	3.79790	.0318618	.498525	1.7538	.12910	.6633
%RSD	30.78236	6.192896	9.560000	24.81361	1.197596	4.989783	4.834174
#1	-1.55937	63.04768	.3615657	2.263129	144.6246	-2.57268	-12.9747
#2	-1.07072	63.95935	.3395177	2.329403	146.5733	-2.46601	-13.9416
#3	-.861258	56.97292	.2987639	1.434705	148.1247	-2.72297	-14.2447
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.235053	-.871263	44.07901	4502.292	29.39012	.5231986	7327.714
SDEV	.763907	.528314	7.10785	15.665	1.78335	.2485700	81.886
%RSD	61.85214	60.63775	16.12526	.3479263	6.067847	47.50969	1.117479
#1	2.098979	-.265469	44.97554	4511.152	31.37937	.7017589	7418.606
#2	.6488941	-1.23642	50.69606	4511.519	28.85645	.2393055	7304.834
#3	.9572847	-1.11190	36.56542	4484.205	27.93454	.6285315	7259.702
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2201123	-7.62981	.6966801	10.79226	3.676613	4.590643	10.12991
SDEV	.2446780	4.11808	.3145559	.10330	1.375846	.646524	1.04920
%RSD	111.1605	53.97363	45.15069	.9571717	37.42157	14.08353	10.35748
#1	.4239649	-10.8726	.3334801	10.72814	2.134178	5.010039	9.364783
#2	.2875979	-9.02035	.8813992	10.73722	4.777412	3.846086	9.698978
#3	-.051226	-2.99646	.8751610	10.91143	4.118249	4.915805	11.32596
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	5.619593	8.076796	1.479732	-11.2558	12.50189	41.68824	1.819447
SDEV	2.137227	2.912469	.821981	1.0785	1.32422	3.80518	.489010
%RSD	38.03170	36.05971	55.54930	9.581879	10.59215	9.127705	26.87686
#1	6.244417	5.231453	.5877746	-12.4980	13.75087	38.27131	2.323743
#2	3.239590	11.05204	1.644711	-10.7106	11.11347	45.78895	1.347310
#3	7.374772	7.946890	2.206712	-10.5586	12.64134	41.00446	1.787288
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.2103473	17.98277	172856.3
SDEV	.1362726	1.56810	413.2
%RSD	64.78456	8.720031	.2390430
#1	.2186141	19.79336	172685.7
#2	.3422983	17.06116	172555.7
#3	.0701295	17.09379	173327.5
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408019-04 OPERATOR:
RUN TIME: 08/11/14 17:22:12
COMMENT: SDG:1408019 CLIENTID:P001-DR0310-LW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.733116	63.80058	13.42699	2.844264	417.8671	-2.80893	-15.3204
SDEV	.266638	12.10820	.05856	1.326463	27.7826	.55460	2.1307
%RSD	36.37044	18.97819	.4361013	46.63641	6.648665	19.74414	13.90773
#1	-.791294	77.29543	13.49437	4.045440	436.7915	-2.24392	-12.9774
#2	-.965862	60.21938	13.39824	3.066711	430.8386	-2.83037	-15.8417
#3	-.442194	53.88692	13.38838	1.420641	385.9712	-3.35250	-17.1420
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.152813	43.12368	890.6605	252.6756	70.79770	12.01025	1508.614
SDEV	.637478	.83431	5.4718	9.4217	1.74327	.07451	139.132
%RSD	15.35051	1.934702	.6143476	3.728770	2.462328	.6203473	9.222505
#1	4.471434	42.66710	891.5623	260.1045	71.17988	11.99658	1456.150
#2	4.568166	44.08663	895.6254	255.8444	72.31817	12.09065	1666.351
#3	3.418838	42.61730	884.7939	242.0781	68.89504	11.94353	1403.342
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	5.128147	-12.6931	.2675590	68.27284	9.055663	15.43131	6.310134
SDEV	.166370	2.9001	.0649863	.91661	1.004971	.82496	2.133585
%RSD	3.244255	22.84811	24.28860	1.342563	11.09771	5.346007	33.81204
#1	5.116862	-9.53659	.2290539	68.90572	9.719036	15.43414	5.099297
#2	5.299873	-13.3029	.3425900	68.69110	9.548549	16.25485	8.773667
#3	4.967707	-15.2399	.2310330	67.22172	7.899405	14.60494	5.057438
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	11.94099	11.43158	7.869406	-4.38919	25.32663	29.72460	1.188822
SDEV	2.70440	1.71098	.759659	4.36246	2.12793	1.83897	.585720
%RSD	22.64804	14.96714	9.653315	99.39119	8.401926	6.186692	49.26890
#1	14.20626	13.04220	8.059860	.3813708	22.94918	27.68694	.5427752
#2	12.66985	11.61715	8.515716	-5.37359	27.05279	31.26089	1.338539
#3	8.946853	9.635372	7.032642	-8.17533	25.97793	30.22596	1.685152
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	3.236996	15.74534	173818.8
SDEV	.273698	.61573	2151.6
%RSD	8.455312	3.910528	1.237815
#1	3.138883	16.45478	171413.9
#2	3.546228	15.43115	174481.3
#3	3.025877	15.35009	175561.1
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408019-05 OPERATOR:
RUN TIME: 08/11/14 17:29:25
COMMENT: SDG:1408019 CLIENTID:P001-DR0312-LW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.838109	221.7954	24.20060	2.335116	9076.268	2.004368	-15.0837
SDEV	.132097	1.6636	.38502	.149801	49.334	.186098	.5086
%RSD	15.76131	.7500777	1.590955	6.415134	.5435442	9.284624	3.371702
#1	-.896251	220.6558	23.75699	2.168736	9022.597	2.053431	-14.5629
#2	-.931162	221.0260	24.44792	2.459276	9119.637	1.798654	-15.5791
#3	-.686914	223.7045	24.39688	2.377335	9086.570	2.161019	-15.1092
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	26.57702	498.0104	1863.390	517.0106	2684.523	25.63034	2814.193
SDEV	.26847	5.0167	16.237	4.1466	16.712	.33043	184.086
%RSD	1.010163	1.007345	.8713600	.8020326	.6225216	1.289214	6.541332
#1	26.69499	493.5609	1856.401	512.2352	2678.329	25.46041	2625.954
#2	26.76631	503.4474	1881.951	519.0964	2703.448	26.01116	2993.824
#3	26.26977	497.0228	1851.818	519.7001	2671.793	25.41946	2822.801
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.87672	-10.3307	1.649586	7354.078	456.6178	8.131957	14.31199
SDEV	.32529	3.5143	.439638	53.100	4.1275	1.922619	3.27049
%RSD	2.990725	34.01826	26.65142	.7220546	.9039243	23.64275	22.85142
#1	10.52842	-14.2815	1.394529	7323.242	452.2810	9.616710	17.69502
#2	11.17265	-7.55285	1.396995	7415.393	460.4980	5.960212	14.07390
#3	10.92910	-9.15774	2.157234	7323.599	457.0744	8.818950	11.16705
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.177905	463.4571	453.2032	-8.93770	16.65392	47.96410	53.50492
SDEV	2.395945	3.2196	5.6339	1.02400	2.50731	1.15375	.74157
%RSD	38.78249	.6946871	1.243134	11.45711	15.05536	2.405435	1.385984
#1	6.521145	463.2733	446.7930	-8.88076	18.85151	48.61095	52.80226
#2	8.383719	466.7647	457.3692	-9.98898	13.92278	46.63206	53.43242
#3	3.628851	460.3334	455.4473	-7.94335	17.18747	48.64930	54.28008
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	2.259096	101.2063	172580.9
SDEV	.124255	.9434	579.9
%RSD	5.500187	.9321854	.3360178
#1	2.392451	100.2213	171963.9
#2	2.238259	102.1017	173114.8
#3	2.146577	101.2960	172663.9
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408019-06 OPERATOR:
RUN TIME: 08/11/14 17:36:37
COMMENT: SDG:1408019 CLIENTID:P001-DR0702-LW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.771705	842.3131	417.2450	3.236471	16060.85	-5.36709	6.515799
SDEV	.319862	12.1608	1.9645	1.376509	95.94	.24572	.283907
%RSD	41.44870	1.443734	.4708301	42.53117	.5973629	4.578343	4.357215
#1	-1.05105	828.5185	416.9034	4.700703	16097.32	-5.12209	6.841895
#2	-.841286	846.9376	415.4737	3.039890	15952.02	-5.61353	6.323601
#3	-.422780	851.4832	419.3579	1.968821	16133.20	-5.36566	6.381903
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	109.6536	23.18781	25593.53	427.3414	72155.01	282.2055	1049.122
SDEV	.9619	.54148	137.72	7.3246	501.89	1.6366	170.025
%RSD	.8771829	2.335206	.5380877	1.713996	.6955734	.5799426	16.20642
#1	109.0967	22.69824	25434.94	423.8173	71575.91	280.3263	1079.794
#2	109.0998	23.09577	25683.03	422.4450	72424.94	283.3187	865.8481
#3	110.7643	23.76941	25662.61	435.7619	72464.16	282.9714	1201.723
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	497.0342	-3.18647	310.0599	338.0568	6.989943	5.060950	11.58534
SDEV	1.9699	.97751	1.3268	2.9678	1.501271	.930373	2.10872
%RSD	.3963307	30.67682	.4279249	.8779134	21.47759	18.38336	18.20159
#1	494.9374	-4.16796	310.4506	334.6836	5.761479	6.135239	13.64644
#2	498.8461	-2.21299	308.5816	340.2672	6.544941	4.519165	9.432035
#3	497.3192	-3.17845	311.1475	339.2196	8.663406	4.528447	11.67755
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.542524	13.84654	3.566704	-5.09397	10.13073	20.63025	7.344871
SDEV	1.030959	1.70929	1.448910	1.22526	2.00185	2.58409	.792306
%RSD	22.69572	12.34450	40.62322	24.05307	19.76018	12.52574	10.78721
#1	5.468474	12.12027	2.586745	-6.49202	12.43933	17.84021	8.205032
#2	4.727499	13.88102	2.882331	-4.20695	8.875609	21.10917	6.644899
#3	3.431600	15.53832	5.231034	-4.58294	9.077241	22.94139	7.184681
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	14.92528	22.96992	173505.7
SDEV	.66314	.87058	777.3
%RSD	4.443067	3.790094	.4479694
#1	14.58865	22.02768	172630.9
#2	14.49798	23.13762	174116.6
#3	15.68922	23.74445	173769.7
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

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METHOD: P4S12014 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 08/11/14 17:43:51
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	99.70163	53987.25	995.3707	931.7047	49385.20	950.0030	925.1382
SDEV	.75457	137.81	3.3751	3.6123	92.47	2.5289	2.5842
%RSD	.7568312	.2418211	.3390788	.3877059	.1872440	.2661991	.2793295
#1	98.86481	53838.09	991.4735	928.0754	49292.23	952.1092	926.9768
#2	100.3302	54109.84	997.3232	935.2997	49477.17	947.1982	926.2542
#3	99.90986	54013.81	997.3154	931.7390	49386.19	950.7015	922.1835
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	965.1448	1011.725	24127.85	54125.91	48344.70	959.1232	54491.79
SDEV	6.2779	.945	29.42	221.04	119.46	.8343	271.20
%RSD	.6504571	.0934211	.1219278	.4083748	.2471079	.0869826	.4887136
#1	957.9076	1012.676	24093.94	54377.27	48283.84	958.5955	54622.31
#2	969.1220	1010.786	24143.09	54038.61	48482.34	958.6892	54673.04
#3	968.4048	1011.712	24146.53	53961.86	48267.92	960.0850	54180.01
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	968.1718	995.9229	943.8602	944.1393	959.7969	939.4071	1005.547
SDEV	2.3816	6.5097	7.0737	2.0581	2.4569	6.1333	5.539
%RSD	.2459846	.6536310	.7494483	.2179840	.2559808	.6528870	.5508763
#1	970.3762	993.7449	937.5421	946.1082	958.3741	932.3291	1006.908
#2	965.6458	990.7814	942.5359	944.3074	962.6339	943.1544	1010.279
#3	968.4935	1003.242	951.5024	942.0023	958.3827	942.7378	999.4539
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	925.9100	954.1453	962.6511	970.8172	923.7255	967.1924	942.1188
SDEV	2.6862	2.0366	2.9270	2.6566	10.4084	2.6912	5.2271
%RSD	.2901185	.2134446	.3040530	.2736432	1.126786	.2782495	.5548281
#1	927.4155	954.5136	960.3992	973.6301	911.7095	965.7653	936.9719
#2	927.5059	955.9727	965.9597	970.4705	929.5167	965.5154	947.4227
#3	922.8086	951.9498	961.5945	968.3510	929.9504	970.2966	941.9619
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	993.8423	1000.566	177053.2
SDEV	3.0082	.952	557.8
%RSD	.3026837	.0951632	.3150658
#1	990.4183	999.6559	176777.7
#2	995.0481	1000.486	176686.9
#3	996.0606	1001.555	177695.2
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

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METHOD: P4S12014 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 08/11/14 17:51:10
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.384102	13.70392	.2204635	-1.16380	-59.7387	-2.42127	Q-11.2920
SDEV	.175698	19.86538	.0142465	2.18646	15.3859	.16778	.8197
%RSD	45.74255	144.9613	6.462052	187.8724	25.75530	6.929255	7.259118
#1	-.547028	24.17616	.2357851	.1488920	-61.0805	-2.41405	Q-10.8598
#2	-.197943	26.14214	.2179890	-3.68783	-74.4098	-2.25722	Q-10.7788
#3	-.407335	-9.20654	.2076164	.0475353	-43.7259	-2.59254	Q-12.2373
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC FAIL
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.186531	-.780018	1.097905	20.25567	14.04397	-.031009	240.6355
SDEV	.618220	.704977	8.187671	5.12234	2.04690	.112349	103.5599
%RSD	331.4306	90.37959	745.7539	25.28844	14.57490	362.3074	43.03600
#1	.3614518	.0335157	9.623547	17.85112	16.19268	.0615297	247.5503
#2	-.064312	-1.21158	-6.70371	26.13790	12.11693	.0014592	133.7915
#3	-.856733	-1.16199	.3738743	16.77799	13.82231	-.156017	340.5647
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2734999	2.319436	.5627064	-.024528	-.602317	1.058541	3.626356
SDEV	.5139744	1.461338	.2232176	.200535	1.143556	1.794213	1.393804
%RSD	187.9249	63.00404	39.66858	817.5855	189.8594	169.4988	38.43539
#1	-.172061	1.408788	.6366538	-.082843	-1.00831	2.377910	5.223422
#2	.1567575	1.544495	.7395666	-.189441	.6888408	1.782203	2.655416
#3	.8358038	4.005024	.3118987	.1987010	-1.48749	-.984492	3.000230
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.217418	.4594951	-1.13251	2.782276	.1978976	2.297949	3.497120
SDEV	1.596758	1.783352	1.09437	1.096757	3.213937	1.455312	1.182933
%RSD	734.4183	388.1112	96.63235	39.41942	1624.040	63.33092	33.82593
#1	1.611014	1.026269	-2.02415	1.707645	2.712472	3.978382	4.857911
#2	-.926059	1.890581	.0887953	2.739289	1.304310	1.464132	2.714164
#3	-1.33721	-1.53837	-1.46217	3.899895	-3.42309	1.451332	2.919286
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	10.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	-.067969	2.445765	179475.2
SDEV	.154147	1.213376	2432.6
%RSD	226.7919	49.61132	1.355397
#1	.0433771	3.726330	178332.0
#2	-.243904	2.297819	177824.9
#3	-.003379	1.313145	182268.9
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	40.00000	200.0000	

METHOD: P4S12014 SAMPLE NAME: 1408019-07 OPERATOR:
RUN TIME: 08/11/14 17:58:28
COMMENT: SDG:1408019 CLIENTID:P001-DR0302-LW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.22188	87.53780	1.585427	3.810818	75.17281	.4232985	-12.9050
SDEV	.51821	7.97921	.064849	1.269078	25.61442	.4387397	1.7018
%RSD	42.41114	9.115163	4.090334	33.30198	34.07405	103.6478	13.18682
#1	-1.66412	94.44551	1.515919	5.243192	100.2665	.9298351	-11.1560
#2	-.651671	89.36416	1.644304	2.826702	76.18425	.1776513	-13.0038
#3	-1.34985	78.80375	1.596057	3.362559	49.06764	.1624093	-14.5553
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.847129	133.7955	103.8954	70.24878	25.11834	1.226639	438.3298
SDEV	.359908	1.7805	10.1031	1.24913	2.28499	.164949	17.7511
%RSD	19.48469	1.330747	9.724308	1.778155	9.096905	13.44722	4.049716
#1	2.136573	131.7951	105.8285	70.33521	23.95519	1.119085	422.2416
#2	1.960671	135.2066	112.8923	71.45245	27.75089	1.416549	435.3749
#3	1.444144	134.3848	92.96543	68.95868	23.64894	1.144282	457.3729
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.222705	-4.65126	.2031323	322.0046	29.02927	10.11205	8.311229
SDEV	.299243	1.72450	.2361554	1.5172	.92599	.81351	.428691
%RSD	4.808889	37.07586	116.2569	.4711840	3.189855	8.044960	5.157975
#1	5.929796	-6.05027	.4672461	320.9408	30.06271	9.182111	8.799455
#2	6.527903	-5.17894	.1298315	323.7420	28.75019	10.46206	7.996386
#3	6.210416	-2.72458	.0123193	321.3310	28.27492	10.69197	8.137846
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.031194	34.97384	26.06134	-7.18955	18.74980	28.23514	3.396579
SDEV	1.599657	1.51950	1.03766	2.69873	2.50439	.84635	1.002463
%RSD	22.75087	4.344678	3.981602	37.53692	13.35689	2.997513	29.51390
#1	5.328435	36.45336	26.87207	-4.21380	15.86995	27.59505	3.761671
#2	7.262604	33.41729	26.42003	-9.47859	20.41737	29.19474	4.165329
#3	8.502543	35.05087	24.89192	-7.87625	19.96208	27.91563	2.262738
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1.360418	10.70480	168444.1
SDEV	.116994	.60247	1687.2
%RSD	8.599862	5.628005	1.001656
#1	1.454818	11.27624	166497.5
#2	1.229527	10.76266	169347.7
#3	1.396908	10.07549	169487.1
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408019-08 OPERATOR:
RUN TIME: 08/11/14 18:05:41
COMMENT: SDG:1408019 CLIENTID:P001-DR0502-LW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.675053	155.0796	102.8040	3.303098	7264.067	.6452125	-11.3973
SDEV	.324351	16.3544	.6921	.407688	65.118	.2032216	.8407
%RSD	48.04828	10.54584	.6731786	12.34260	.8964459	31.49686	7.376420
#1	-.302696	172.7840	102.9233	3.570720	7188.887	.8456323	-10.4389
#2	-.896114	151.9181	103.4286	3.504687	7302.826	.4393004	-11.7428
#3	-.826347	140.5368	102.0600	2.833886	7300.488	.6507047	-12.0102
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	11.91135	233.9223	745.3934	984.9077	2448.778	12.09237	1335.258
SDEV	.48493	.7337	11.2317	10.5550	12.971	.19541	82.263
%RSD	4.071196	.3136385	1.506816	1.071673	.5296952	1.615949	6.160827
#1	12.24601	233.1254	747.9665	996.5351	2458.796	12.28394	1355.948
#2	11.35522	234.5698	733.0984	982.2581	2453.411	12.09983	1405.202
#3	12.13282	234.0717	755.1152	975.9300	2434.126	11.89334	1244.626
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.990196	-8.87853	.8363346	4735.136	102.4822	8.307975	14.78945
SDEV	.303197	6.07546	.0691500	32.547	1.2727	3.981641	2.20084
%RSD	6.075854	68.42868	8.268218	.6873612	1.241885	47.92552	14.88116
#1	5.307718	-9.67907	.8785112	4763.055	102.4921	3.775803	17.30469
#2	4.703711	-2.44248	.7565303	4742.964	101.2046	11.24341	13.84634
#3	4.959157	-14.5140	.8739623	4699.388	103.7500	9.904714	13.21734
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.830910	109.2922	99.08227	-6.26152	15.58173	31.38126	62.50776
SDEV	.824421	3.2114	.37504	4.62887	3.66539	.76129	.67305
%RSD	12.06897	2.938355	.3785123	73.92562	23.52365	2.425928	1.076752
#1	5.995133	109.7793	98.85394	-11.5751	11.43966	32.14538	63.24687
#2	7.643485	105.8651	98.87778	-3.10365	18.40611	31.37555	62.34627
#3	6.854113	112.2322	99.51511	-4.10584	16.89942	30.62284	61.93014
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1.813868	181.9971	167351.9
SDEV	.216567	1.5843	1170.2
%RSD	11.93949	.8704993	.6992397
#1	1.846221	183.7369	166098.9
#2	1.582945	181.6170	167540.5
#3	2.012438	180.6374	168416.3
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408019-10 OPERATOR:
RUN TIME: 08/11/14 18:12:54
COMMENT: SDG:1408019 CLIENTID:P001-UST01-LW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.24520	97.04104	.9619421	2.405602	505.4304	-2.27801	-12.2296
SDEV	.56180	17.88807	.0768084	2.438523	25.4335	.59706	2.5032
%RSD	45.11716	18.43351	7.984718	101.3685	5.032042	26.20972	20.46869
#1	-1.07065	103.3741	.9485558	4.970846	509.5221	-2.16630	-12.0178
#2	-1.87356	110.9010	.8927067	.1174767	528.5699	-1.74470	-9.83899
#3	-.791402	76.84799	1.044564	2.128483	478.1991	-2.92304	-14.8320
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0665624	-2.21613	75.98978	116.5310	84.21359	150.8907	671.1990
SDEV	.2568400	.88552	11.53329	3.4668	1.17303	6.4382	83.9433
%RSD	385.8636	39.95805	15.17742	2.975042	1.392920	4.266780	12.50647
#1	.2834408	-1.36114	82.45267	113.9122	84.85194	146.0469	767.1233
#2	-.217061	-3.12932	82.84248	120.4625	82.85983	158.1966	611.1795
#3	.1333078	-2.15794	62.67419	115.2182	84.92901	148.4287	635.2943
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.022388	-7.17176	.4858522	348.3651	5.351145	4.875053	11.93351
SDEV	.495017	2.27338	.1595088	16.5621	.219219	1.192661	.95059
%RSD	48.41778	31.69913	32.83073	4.754247	4.096670	24.46458	7.965744
#1	.4609109	-4.86185	.4537175	337.6795	5.446684	4.695732	11.01445
#2	1.210390	-9.40676	.3448572	367.4436	5.100370	6.147222	11.87332
#3	1.395863	-7.24665	.6589819	339.9723	5.506380	3.782207	12.91277
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.557187	13.56258	1.251498	-10.1965	12.39944	22.20383	2.511632
SDEV	2.536519	2.09058	1.019613	1.7363	1.37748	2.41289	1.245092
%RSD	162.8911	15.41436	81.47143	17.02800	11.10921	10.86699	49.57303
#1	-1.18312	11.59648	2.376291	-11.8596	12.96090	20.07205	3.244376
#2	3.822874	13.33263	.9903354	-8.39531	13.40751	24.82332	3.216506
#3	2.031803	15.75864	.3878675	-10.3345	10.82990	21.71613	1.074013
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1.184549	13.03393	170195.5
SDEV	.178517	.44437	4507.4
%RSD	15.07045	3.409354	2.648374
#1	1.337831	13.52568	170107.2
#2	.9885485	12.66116	165732.8
#3	1.227268	12.91495	174746.3
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408022-01 OPERATOR:
RUN TIME: 08/11/14 18:20:06
COMMENT: SDG:1408022 CLIENTID:TS-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.72804	96090.17	494.8585	7.288738	52186.39	-18.2449	34.01143
SDEV	.20428	241.50	1.6228	.373324	217.41	.1916	.69395
%RSD	11.82144	.2513224	.3279252	5.121925	.4165953	1.050123	2.040329
#1	-1.49566	96335.76	494.3501	7.174824	52435.88	-18.3811	34.15996
#2	-1.80913	95852.98	493.5509	7.705749	52085.79	-18.0258	34.61908
#3	-1.87932	96081.78	496.6746	6.985642	52037.51	-18.3278	33.25525
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	682.7558	109.5602	234681.2	12986.55	10186.46	2677.108	1786.397
SDEV	2.4034	.3368	1037.3	60.23	49.71	20.678	54.312
%RSD	.3520074	.3074041	.4420120	.4637728	.4879641	.7723821	3.040293
#1	684.6691	109.8933	235667.3	13047.35	10240.35	2693.527	1835.549
#2	683.5400	109.5674	234776.9	12985.39	10176.62	2683.910	1728.089
#3	680.0583	109.2198	233599.3	12926.91	10142.40	2653.886	1795.552
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	42.06558	41.87882	682.3225	320.0923	107.3552	-.248807	11.69087
SDEV	.97639	3.26616	2.2244	2.5507	.8935	4.424066	1.03414
%RSD	2.321118	7.799079	.3260105	.7968637	.8323126	1778.108	8.845687
#1	43.00338	41.57559	684.5419	322.7788	108.3081	1.039441	10.52998
#2	42.13866	45.28602	680.0931	319.7945	106.5361	-5.17401	12.02908
#3	41.05471	38.77484	682.3323	317.7036	107.2213	3.388151	12.51356
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	79.94453	105.4100	108.3262	8.994245	-4.86348	25.37166	9.272260
SDEV	1.39460	1.0620	.8848	6.511713	3.45175	1.78082	.974176
%RSD	1.744462	1.007493	.8167762	72.39865	70.97287	7.018947	10.50635
#1	78.44070	106.6356	109.1430	11.94964	-4.40755	25.17675	10.37219
#2	80.19765	104.8330	107.3863	1.528924	-8.52053	23.69631	8.926352
#3	81.19524	104.7614	108.4493	13.50417	-1.66235	27.24192	8.518241
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	2455.849	71.69536	167410.6
SDEV	9.700	1.89673	420.5
%RSD	.3949919	2.645538	.2511679
#1	2464.714	73.88551	167348.5
#2	2445.488	70.59598	167024.6
#3	2457.346	70.60459	167858.7
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: SDI1408022-01 OPERATOR:
RUN TIME: 08/11/14 18:27:20
COMMENT: SDG:1408022 CLIENTID:TS-1L 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.802000	19831.10	97.49734	1.029401	10476.49	-6.79299	-2.00832
SDEV	.468884	79.66	.20040	.314481	33.90	.17041	1.20795
%RSD	58.46426	.4017012	.2055460	30.54988	.3235620	2.508548	60.14727
#1	-.464499	19920.70	97.63989	.7831368	10514.70	-6.65081	-.912811
#2	-1.33739	19804.31	97.26820	.9214190	10450.04	-6.98188	-1.80839
#3	-.604116	19768.28	97.58394	1.383647	10464.73	-6.74628	-3.30377
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	135.2583	21.54252	52469.69	2715.710	2088.508	531.7765	468.8983
SDEV	.3504	.12924	125.08	6.342	11.387	.3759	179.6552
%RSD	.2590571	.5999280	.2383904	.2335171	.5452282	.0706892	38.31432
#1	134.9688	21.46770	52556.33	2722.977	2098.145	532.0755	659.7802
#2	135.1582	21.46811	52526.46	2711.293	2091.437	531.8995	443.8067
#3	135.6478	21.69176	52326.30	2712.861	2075.943	531.3545	303.1078
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.722718	3.278431	137.9105	64.88063	20.01436	1.373676	1.793019
SDEV	.483943	.947617	.5282	.33077	.87766	2.241075	1.236665
%RSD	5.548081	28.90459	.3830178	.5098167	4.385130	163.1443	68.97110
#1	8.347762	2.685316	137.6809	65.25058	20.64358	-.361495	2.580538
#2	8.551369	4.371317	138.5146	64.77791	20.38775	.5786427	.3676586
#3	9.269024	2.778660	137.5358	64.61341	19.01175	3.903881	2.430862
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.41783	18.08139	20.97929	3.756110	.1841774	6.209075	3.171730
SDEV	1.32967	2.73109	1.16577	3.473405	1.626375	.535858	.645167
%RSD	8.624213	15.10445	5.556780	92.47345	883.0482	8.630233	20.34117
#1	13.96352	21.23499	20.34822	1.118896	-1.10065	6.797043	3.591555
#2	15.71866	16.50811	22.32455	2.457778	-.359585	5.748167	3.494782
#3	16.57131	16.50108	20.26510	7.691656	2.012766	6.082016	2.428854
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	491.3813	16.10574	176836.6
SDEV	2.8254	.81800	1513.5
%RSD	.5749874	5.078904	.8558667
#1	494.6013	17.02755	175660.2
#2	489.3170	15.82323	176305.5
#3	490.2255	15.46645	178544.1
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408022-02 OPERATOR:
RUN TIME: 08/11/14 18:34:33
COMMENT: SDG:1408022 CLIENTID:BF-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.80559	285731.4	1619.581	25.09564	15276.39	-15.1693	421.2872
SDEV	.15187	1760.9	4.648	.80394	87.64	.4272	.6930
%RSD	8.410982	.6162669	.2869974	3.203493	.5737268	2.816405	.1645041
#1	-1.90956	285229.5	1622.108	25.64716	15219.33	-14.6996	420.8235
#2	-1.63131	284276.0	1622.419	25.46655	15232.53	-15.2736	420.9542
#3	-1.87591	287688.8	1614.217	24.17321	15377.31	-15.5348	422.0839
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	911.3522	519.0613	188297.2	3096.675	59819.11	5175.980	2318.836
SDEV	4.5938	4.0359	742.9	9.265	184.98	26.309	170.158
%RSD	.5040606	.7775353	.2576730	.2991891	.3092367	.5082921	7.338059
#1	906.0485	514.4021	187588.6	3105.609	59679.38	5145.631	2149.288
#2	914.0794	521.4777	188232.7	3097.303	59749.06	5192.324	2489.596
#3	913.9286	521.3040	189070.1	3087.111	60028.88	5189.986	2317.623
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1129.475	66.05481	658.2224	270.5277	7.610131	-13.9158	1.476485
SDEV	2.855	1.58603	4.1526	1.5464	.661064	.2314	4.429164
%RSD	.2527880	2.401076	.6308875	.5716143	8.686636	1.663135	299.9803
#1	1129.952	66.69995	653.4973	269.3050	8.032666	-13.7838	-1.14514
#2	1126.411	64.24788	659.8781	272.2660	7.949412	-13.7805	6.590298
#3	1132.062	67.21660	661.2918	270.0122	6.848314	-14.1830	-1.01570
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.130643	-8.76818	15.78690	-1.81421	-19.9576	18.24174	.0627711
SDEV	3.385900	5.51144	2.03359	5.42031	2.4600	3.45733	2.065082
%RSD	299.4668	62.85725	12.88153	298.7703	12.32627	18.95285	3289.862
#1	-2.63022	-9.02269	16.54745	4.130687	-22.7277	16.57743	2.433431
#2	2.085744	-3.13390	13.48265	-3.09154	-19.1171	22.21645	-1.34514
#3	3.936408	-14.1479	17.33060	-6.48177	-18.0279	15.93133	-.899973
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	4806.307	30.26448	166527.7
SDEV	29.579	1.29476	1735.7
%RSD	.6154202	4.278141	1.042292
#1	4787.280	28.81454	164617.5
#2	4791.256	30.67376	168008.1
#3	4840.384	31.30513	166957.4
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408024-02 OPERATOR:
RUN TIME: 08/11/14 18:42:19
COMMENT: SDG:1408024 CLIENTID:P001-S003 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.807170	16531.21	1868.960	6.234761	119581.1	.5791747	-2.29178
SDEV	.245072	75.13	21.244	.341625	472.4	.2627411	.79702
%RSD	30.36188	.4544469	1.136670	5.479367	.3950049	45.36475	34.77716
#1	-1.03980	16553.30	1855.102	6.470683	119586.6	.7170968	-1.54874
#2	-.551313	16592.81	1858.361	5.843005	120050.8	.7442350	-2.19304
#3	-.830396	16447.52	1893.418	6.390595	119106.1	.2761922	-3.13357
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	76.36997	192.9649	34961.22	3414.472	19550.16	1066.762	1664.868
SDEV	.65288	.7026	135.70	7.237	73.23	5.536	69.467
%RSD	.8548860	.3641332	.3881343	.2119453	.3745609	.5189447	4.172509
#1	75.77497	192.3171	34969.98	3416.904	19567.97	1063.552	1614.242
#2	77.06838	192.8657	35092.33	3420.180	19612.85	1073.155	1744.064
#3	76.26657	193.7119	34821.36	3406.333	19469.68	1063.580	1636.299
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	36.57691	-3.39434	26.16309	1888.302	730.4567	1.921560	19.66242
SDEV	.35382	3.12857	.81564	6.113	3.8486	.210786	3.82143
%RSD	.9673217	92.17032	3.117525	.3237175	.5268737	10.96953	19.43517
#1	36.96641	-6.43428	25.53787	1888.152	728.7262	1.726231	22.49935
#2	36.48896	-3.56465	27.08570	1894.488	734.8668	1.893464	15.31699
#3	36.27537	-.184091	25.86571	1882.265	727.7772	2.144985	21.17094
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	11.77082	735.6238	727.8769	-12.9886	9.365410	24.37047	11.98547
SDEV	1.20533	7.5446	8.1237	2.0356	.707749	1.10963	.20156
%RSD	10.23997	1.025601	1.116088	15.67197	7.557049	4.553178	1.681671
#1	11.88496	744.3285	720.9366	-15.0973	10.12530	25.44137	11.77889
#2	10.51248	730.9695	736.8124	-12.8337	9.245911	23.22579	11.99593
#3	12.91502	731.5734	725.8818	-11.0350	8.725018	24.44425	12.18159
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	489.5092	41.19304	167419.1
SDEV	2.5427	.35128	1040.6
%RSD	.5194430	.8527678	.6215801
#1	491.0660	41.31536	166488.6
#2	490.8866	40.79695	167225.9
#3	486.5749	41.46681	168542.8
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 4081101-DUP1 OPERATOR:
RUN TIME: 08/11/14 18:49:32
COMMENT: SDG:1408024 CLIENTID:P001-S003D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.37743	23924.24	2918.017	6.924398	180744.6	2.138997	.4686865
SDEV	.58665	245.48	12.841	1.248689	1706.8	.152601	.8629136
%RSD	42.59035	1.026082	.4400625	18.03318	.9442924	7.134231	184.1132
#1	-1.24953	23709.18	2908.504	6.473220	179157.1	2.304472	1.365133
#2	-.865282	23871.86	2932.624	8.335969	180526.9	2.003814	-.356243
#3	-2.01748	24191.69	2912.924	5.964005	182549.7	2.108705	.3971696
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	59.65396	182.1002	26501.01	4376.210	25137.82	2338.564	2494.802
SDEV	.62036	1.5305	174.07	13.272	191.81	25.311	62.349
%RSD	1.039931	.8404487	.6568608	.3032755	.7630180	1.082332	2.499169
#1	59.43519	180.6893	26370.74	4373.625	25045.78	2326.027	2436.236
#2	59.17263	181.8840	26433.56	4364.421	25009.38	2321.968	2560.347
#3	60.35407	183.7273	26698.71	4390.584	25358.30	2367.696	2487.823
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	29.85784	-4.97116	26.54345	2159.777	559.4481	1.523630	23.40223
SDEV	.56921	.49435	.74540	14.486	2.2361	4.991864	1.31061
%RSD	1.906387	9.944359	2.808243	.6707018	.3996895	327.6296	5.600355
#1	29.58486	-5.28305	27.16401	2156.169	556.9329	7.155838	24.69249
#2	29.47655	-5.22926	25.71664	2147.436	560.2003	-.230691	22.07218
#3	30.51213	-4.40118	26.74969	2175.726	561.2111	-2.35426	23.44203
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.405721	560.6771	558.8344	-11.6397	8.095333	24.80943	8.404579
SDEV	1.020408	5.8827	3.7692	5.2160	5.143835	2.72442	1.220195
%RSD	15.92963	1.049205	.6744757	44.81275	63.54075	10.98139	14.51821
#1	7.583971	557.3055	556.7468	-6.61779	14.03225	22.18674	7.009720
#2	5.811326	567.4697	556.5709	-11.2709	5.281047	27.62530	8.929813
#3	5.821867	557.2560	563.1856	-17.0303	4.972698	24.61626	9.274205
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	844.2925	52.73947	165887.0
SDEV	12.7206	.67505	960.3
%RSD	1.506660	1.279978	.5788657
#1	829.7564	51.96079	165158.2
#2	849.7333	53.09817	166975.1
#3	853.3880	53.15946	165527.8
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 4081101-MS1 OPERATOR:
RUN TIME: 08/11/14 18:56:44
COMMENT: SDG:1408024 CLIENTID:P001-S003S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	485.2563	23873.44	4943.273	509.0846	118175.1	494.5938	489.7858
SDEV	6.2933	733.54	34.289	4.3551	441.5	2.8160	3.6284
%RSD	1.296907	3.072629	.6936436	.8554786	.3736158	.5693658	.7408058
#1	478.2981	24720.23	4982.350	514.0358	117696.4	497.1366	493.3163
#2	486.9204	23432.62	4929.257	505.8467	118566.4	495.0776	489.9741
#3	490.5503	23467.49	4918.213	507.3712	118262.4	491.5672	486.0670
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	574.0930	676.0989	29348.79	13943.15	24231.74	1561.889	12037.31
SDEV	7.5825	1.9797	197.05	426.08	605.01	22.492	1145.87
%RSD	1.320780	.2928116	.6714151	3.055824	2.496773	1.440026	9.519342
#1	565.4258	675.0180	29142.23	14433.64	24921.66	1536.392	13360.05
#2	577.3522	674.8949	29534.70	13731.25	23981.94	1578.915	11347.68
#3	579.5010	678.3837	29369.46	13664.58	23791.63	1570.359	11404.20
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	530.4090	1009.565	538.9703	3689.338	1517.034	847.3164	783.6801
SDEV	2.4193	1.633	3.9090	31.250	11.771	31.5348	20.3456
%RSD	.4561279	.1617448	.7252668	.8470436	.7759147	3.721726	2.596165
#1	531.9150	1009.346	535.4295	3660.955	1528.367	883.5584	807.1665
#2	531.6936	1008.052	538.3164	3722.827	1517.866	832.2496	772.4226
#3	527.6183	1011.296	543.1650	3684.234	1504.870	826.1410	771.4512
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	904.5172	1505.056	1523.014	841.2227	850.3585	1020.303	1036.861
SDEV	39.4705	9.445	18.962	15.3299	40.0714	7.846	3.043
%RSD	4.363710	.6275689	1.245046	1.822334	4.712293	.7690200	.2934970
#1	950.0569	1497.693	1543.681	857.4441	896.5959	1016.173	1040.261
#2	880.1588	1515.706	1518.944	839.2485	828.7554	1029.351	1034.393
#3	883.3359	1501.769	1506.418	826.9756	825.7244	1015.384	1035.928
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1538.207	1003.370	170038.2
SDEV	7.837	46.918	8164.1
%RSD	.5094921	4.676088	4.801313
#1	1531.244	1057.481	160660.2
#2	1536.682	978.6180	173895.3
#3	1546.694	974.0106	175559.1
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

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METHOD: P4S12014 SAMPLE NAME: LLCCV OPERATOR:
RUN TIME: 08/11/14 19:03:57
COMMENT: LLCCV
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.779522	214.6222	197.7854	3.943679	4762.237	3.916181	14.78892
SDEV	.558874	6.7885	1.2236	.726809	39.289	.039583	.377899
%RSD	11.69310	5.922497	.6186610	18.42974	.8250034	2.065719	7.891100
#1	4.756413	221.9180	197.0377	3.850478	4719.593	3.887158	14.35268
#2	4.232560	213.4566	199.1975	Q3.267965	4796.965	3.961272	15.01599
#3	5.349592	208.4919	197.1209	4.712593	4770.152	3.900114	14.99808
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	20.00000
RANGE	1.500000	60.00000	60.00000	1.500000	1500.000	1.500000	6.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.211511	3.654476	171.1997	5036.337	4601.991	9.861583	4462.152
SDEV	.540583	.089821	8.0406	34.866	12.607	.172648	18.039
%RSD	5.868560	13.72412	4.696634	.6922916	.2739469	1.750715	.4042653
#1	8.592909	3.630071	167.7227	5046.938	4589.194	9.872135	4458.925
#2	9.593122	3.753977	180.3938	5064.672	4614.399	9.683900	4481.587
#3	9.448501	3.579379	165.4828	4997.401	4602.378	10.02871	4445.945
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	5.000000	200.0000	5000.000	5000.000	10.00000	5000.000
RANGE	3.000000	1.500000	60.00000	1500.000	1500.000	3.000000	1500.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.37011	33.09256	19.52122	28.31123	7.032387	9.770090	31.54327
SDEV	.48555	1.33314	.92094	.16648	1.644388	1.660084	3.80459
%RSD	4.682219	4.028528	4.717654	.5880210	23.38307	16.99149	12.06149
#1	10.43804	32.15447	18.50861	28.22587	8.889702	9.920164	31.12363
#2	9.854163	32.50459	19.74626	28.50307	Q6.445488	11.35004	27.96590
#3	10.81811	34.61861	20.30879	28.20474	Q5.761972	8.040064	35.54028
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	30.00000	20.00000	30.00000	10.00000	10.00000	30.00000
RANGE	3.000000	9.000000	6.000000	9.000000	3.000000	3.000000	9.000000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.710754	6.052734	7.521397	14.26879	7.524044	49.95048	48.96239
SDEV	1.536086	1.093790	2.342089	2.42764	2.485531	1.31351	1.43447
%RSD	15.81840	18.07101	31.13901	17.01365	33.03450	2.629630	2.929742
#1	8.970298	6.213733	10.22560	11.61429	9.074304	48.93915	50.60427
#2	8.685149	7.057102	6.140057	16.37621	8.840657	49.47725	47.95205
#3	11.47682	4.887367	6.198536	14.81587	4.657173	51.43503	48.33083
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	10.00000					50.00000	50.00000
RANGE	3.000000					15.00000	15.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	49.71472	47.05310	184128.3
SDEV	.47086	.40340	493.3
%RSD	.9471214	.8573303	.2679141
#1	50.22859	47.47375	184627.5
#2	49.61160	47.01605	183641.1
#3	49.30397	46.66950	184116.2
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	50.00000	50.00000	
RANGE	15.00000	15.00000	

METHOD: P4S12014 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 08/11/14 19:11:10
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	96.89585	52914.79	979.6295	941.3188	49105.47	943.1085	917.5413
SDEV	.50792	350.33	11.4271	2.3358	153.46	4.2469	6.2315
%RSD	.5241945	.6620576	1.166470	.2481395	.3125098	.4503061	.6791474
#1	96.31483	52510.38	967.6615	938.6217	48956.46	939.2837	911.9703
#2	97.11713	53108.66	990.4253	942.6729	49263.02	947.6787	924.2707
#3	97.25560	53125.32	980.8018	942.6619	49096.94	942.3629	916.3829
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	968.0430	960.1630	24022.70	48704.26	46838.57	959.7716	46845.62
SDEV	8.2029	3.9511	124.09	430.12	257.81	6.1865	425.60
%RSD	.8473679	.4114982	.5165543	.8831201	.5504317	.6445764	.9085098
#1	959.0770	956.9480	23894.95	48208.04	46559.85	954.7728	46357.73
#2	975.1709	958.9670	24142.77	48934.43	47068.51	966.6904	47038.54
#3	969.8812	964.5738	24030.38	48970.32	46887.34	957.8517	47140.60
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	959.8019	983.1739	952.0740	950.9568	941.5453	997.3913	971.3246
SDEV	5.2782	3.1695	5.6340	4.8856	4.4294	8.4122	6.9465
%RSD	.5499260	.3223703	.5917560	.5137560	.4704382	.9374015	.7151605
#1	955.2151	983.6641	947.0736	945.9506	936.4321	990.7156	963.3602
#2	965.5710	979.7879	950.9703	955.7122	943.9976	1006.839	976.1321
#3	958.6197	986.0697	958.1782	951.2076	944.2062	994.6185	974.4813
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	994.1007	940.3551	942.1398	929.1544	881.5335	966.6354	936.4216
SDEV	4.1193	3.6098	4.9568	7.4527	10.0293	5.0423	8.5920
%RSD	.4607171	.3838801	.5261228	.8020990	1.137706	.5216380	.9175341
#1	989.5799	936.4198	936.4385	920.6127	875.7894	961.7505	927.1626
#2	997.6418	941.1328	945.4281	934.3323	893.1141	971.8217	944.1374
#3	995.0804	943.5127	944.5527	932.5182	875.6969	966.3342	937.9650
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1001.078	946.7085	181477.6
SDEV	4.640	7.4614	1002.5
%RSD	.4634686	.7881408	.5524193
#1	1000.626	938.0972	182382.1
#2	1005.928	950.7771	180399.7
#3	996.6813	951.2512	181651.1
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

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METHOD: P4S12014 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 08/11/14 19:18:29
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.302673	-43.7495	.0726908	-.970399	-100.191	-1.48414	Q-8.61372
SDEV	1.090584	5.2149	.2230913	1.324675	14.871	.21298	.4559
%RSD	360.3181	5.562635	306.9044	136.5083	14.84275	8.573504	3.614174
#1	.3955301	-45.9805	.2970525	-1.99263	-84.4905	-1.42642	Q-9.06303
#2	-1.55939	-37.7902	-.149108	-1.44471	-114.064	-1.30597	Q-8.15150
#3	.2558377	-47.4778	.0701279	.5261349	-102.019	-1.72003	Q-8.62661
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC FAIL
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.357793	-4.93873	17.70797	17.15140	14.03264	.0813578	76.06842
SDEV	.241319	.30427	14.99687	11.64764	8.39746	.0892186	122.6965
%RSD	67.44640	6.160905	84.68996	67.91071	59.84237	109.6620	161.2975
#1	-.139284	-2.27077	8.407308	24.27871	19.71559	.0950904	53.25915
#2	-.616797	-1.67325	9.708026	3.710067	4.387087	-.013931	-33.6229
#3	-.317299	-1.87217	35.00858	23.46543	17.99523	.1629140	208.5690
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7631323	2.353226	.7342621	.0638688	-.454624	-.614244	1.526515
SDEV	.0198273	1.623887	.3150549	.2420836	.474855	.250608	2.263917
%RSD	2.598146	69.00684	42.90769	379.0326	104.4500	40.79940	148.3062
#1	.7710431	3.874606	.7302466	.1992993	-.155536	-.456235	-.796575
#2	.7777830	.6432938	.4212341	-.215621	-.206177	-.483298	1.649908
#3	.7405708	2.541777	1.051306	.2079279	-1.00216	-.903199	3.726212
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.541276	-.900357	-.232166	3.701848	-2.76912	.1471093	4.026329
SDEV	1.583743	2.367358	1.873223	1.373461	1.05559	2.211156	1.060748
%RSD	102.7553	262.9354	806.8449	37.10204	38.12005	1503.070	26.34529
#1	2.392298	-3.01050	1.269729	2.567466	-1.96589	.1487176	4.938737
#2	-.286042	-1.35024	.3649200	3.309206	-2.37677	-2.06485	2.862439
#3	2.517572	1.659660	-2.33115	5.228871	-3.96470	2.357461	4.277811
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	10.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.1636636	2.112011	181293.1
SDEV	.1328424	1.618806	1222.6
%RSD	81.16797	76.64760	.6743806
#1	.3112012	3.893058	182288.0
#2	.0535411	1.712851	179928.2
#3	.1262484	.7301254	181663.1
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	40.00000	200.0000	

METHOD: P4S12014 SAMPLE NAME: 4081101-MSD1 OPERATOR:
RUN TIME: 08/11/14 19:25:48
COMMENT: SDG:1408024 CLIENTID:P001-S003SD 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	480.3344	27546.62	4406.373	509.1552	258484.3	483.4638	484.8207
SDEV	3.1606	216.08	42.891	1.3397	949.6	1.8052	2.7015
%RSD	.6579910	.7844251	.9733797	.2631207	.3673697	.3733950	.5572252
#1	476.9358	27636.67	4455.531	510.2988	259269.8	485.1541	487.9085
#2	480.8821	27300.07	4376.571	507.6812	257429.0	481.5623	482.8929
#3	483.1853	27703.11	4387.019	509.4855	258754.2	483.6749	483.6608
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	617.3431	718.4740	41776.47	14646.90	31594.16	2086.928	12315.86
SDEV	7.1275	7.4168	295.59	137.37	229.03	17.661	157.34
%RSD	1.154548	1.032296	.7075403	.9378516	.7249208	.8462781	1.277529
#1	625.0372	712.5493	42025.16	14697.82	31822.95	2105.938	12399.44
#2	610.9659	716.0808	41449.68	14491.35	31364.88	2071.028	12134.37
#3	616.0261	726.7919	41854.59	14751.54	31594.64	2083.819	12413.76
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	528.4588	1014.573	535.9796	3246.117	1635.770	846.1694	766.3554
SDEV	1.9563	4.928	4.8518	15.440	12.408	10.2820	2.8767
%RSD	.3701962	.4857191	.9052216	.4756606	.7585364	1.215125	.3753686
#1	529.7244	1012.581	540.4902	3257.262	1648.498	857.5543	768.9854
#2	526.2055	1010.952	530.8467	3228.492	1623.710	837.5600	763.2833
#3	529.4465	1020.185	536.6019	3252.595	1635.102	843.3940	766.7974
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	896.4954	1643.988	1631.667	848.6078	844.9520	1011.692	1035.461
SDEV	6.4745	16.722	14.063	10.8731	13.5107	2.962	3.521
%RSD	.7221982	1.017185	.8618789	1.281284	1.598993	.2927706	.3400428
#1	899.3229	1662.342	1641.587	857.7645	857.4492	1013.040	1039.458
#2	889.0881	1640.007	1615.573	851.4686	830.6161	1008.296	1034.107
#3	901.0753	1629.616	1637.841	836.5904	846.7906	1013.740	1032.818
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1745.432	1009.681	168016.5
SDEV	6.534	6.639	1345.5
%RSD	.3743376	.6575425	.8008013
#1	1748.753	1009.369	166499.9
#2	1737.905	1003.203	169066.9
#3	1749.639	1016.470	168482.7
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: SDI1408024-02 OPERATOR:
RUN TIME: 08/11/14 19:33:00
COMMENT: SDG:1408024 CLIENTID:P001-S003L 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.524510	3111.830	354.0523	2.150351	22890.53	-2.08121	-11.2414
SDEV	.344347	42.272	4.8024	.830010	184.95	.28970	1.7148
%RSD	65.65127	1.358422	1.356404	38.59880	.8079930	13.91997	15.25468
#1	-.128933	3077.507	358.4741	2.097009	22982.83	-2.07774	-11.6721
#2	-.687454	3098.935	354.7394	3.005746	23011.16	-2.37263	-12.6998
#3	-.757142	3159.047	348.9433	1.348299	22677.59	-1.79325	-9.35226
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	14.37759	33.60412	6914.179	659.5887	3782.857	204.9858	397.2347
SDEV	.75521	.58007	39.919	2.4141	16.299	1.9623	73.4353
%RSD	5.252669	1.726187	.5773566	.3660072	.4308605	.9572946	18.48662
#1	15.18354	32.95686	6914.786	661.8019	3764.727	205.1263	314.4217
#2	14.26301	33.77853	6953.792	659.9498	3787.550	206.8741	454.4287
#3	13.68622	34.07698	6873.960	657.0143	3796.295	202.9570	422.8538
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.833840	2.670756	5.299018	371.9804	143.2807	-.181108	7.051754
SDEV	.714940	2.890899	.555984	2.5442	.8806	1.613172	1.284295
%RSD	9.126307	108.2427	10.49220	.6839598	.6146016	890.7240	18.21242
#1	7.857717	6.006278	5.735580	373.4073	144.0779	1.633211	8.435530
#2	8.536542	.8889225	5.488386	373.4909	142.3355	-1.45365	5.898037
#3	7.107260	1.117067	4.673088	369.0430	143.4288	-.722880	6.821693
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.241958	144.4671	142.6884	-4.11895	1.784787	5.767938	4.426447
SDEV	3.146491	2.4376	2.5182	1.47198	2.257522	1.093848	.109676
%RSD	253.3493	1.687294	1.764815	35.73677	126.4869	18.96428	2.477749
#1	4.543637	142.7507	144.7405	-3.87535	4.383297	6.490366	4.540181
#2	.9043548	147.2572	139.8783	-5.69754	.6650257	4.509463	4.321337
#3	-1.72212	143.3933	143.4464	-2.78397	.3060391	6.303985	4.417824
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	93.65253	11.36818	174414.3
SDEV	1.08729	1.38198	2139.0
%RSD	1.160987	12.15658	1.226383
#1	94.58390	12.52703	174516.2
#2	93.91599	11.73883	176500.5
#3	92.45773	9.838661	172226.1
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 4081101-PS1 OPERATOR:
RUN TIME: 08/11/14 19:40:13
COMMENT: SDG:1408024 CLIENTID:P001-S003A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	77.10639	18012.24	5156.613	83.94619	203417.3	75.76484	300.1587
SDEV	1.14854	143.09	26.378	.31019	1020.0	.42992	2.0170
%RSD	1.489552	.7944207	.5115340	.3695157	.5014087	.5674442	.6719766
#1	76.72266	17847.61	5149.471	84.19737	202352.4	75.84195	298.1090
#2	76.19885	18106.78	5134.542	84.04174	204385.4	76.15099	302.1413
#3	78.39767	18082.31	5185.827	83.59946	203514.1	75.30158	300.2258
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	235.0672	250.0317	36194.47	83244.72	100668.5	1188.655	80324.90
SDEV	3.0495	2.2834	227.67	667.22	668.6	10.062	1000.90
%RSD	1.297279	.9132370	.6290121	.8015219	.6641566	.8464783	1.246060
#1	231.6300	247.4410	35943.62	82540.37	99971.54	1177.106	79172.66
#2	236.1235	250.9030	36387.99	83867.27	101304.6	1193.336	80978.78
#3	237.4480	251.7512	36251.82	83326.52	100729.5	1195.524	80823.26
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	191.6488	488.5883	349.2521	2273.866	836.9135	129.3045	438.1658
SDEV	1.4473	.7019	2.1643	11.758	6.8404	1.0077	11.0216
%RSD	.7551691	.1436656	.6196945	.5171124	.8173372	.7792919	2.515394
#1	191.6780	488.6909	347.5765	2262.525	830.1674	128.8266	425.5230
#2	193.0813	487.8407	348.4840	2286.002	843.8444	128.6247	443.2242
#3	190.1872	489.2333	351.6957	2273.071	836.7286	130.4622	445.7502
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	148.6631	840.9383	834.9040	121.4512	133.2251	800.1375	804.6597
SDEV	2.0444	7.0489	7.0997	2.9348	1.5320	1.9151	2.3790
%RSD	1.375219	.8382168	.8503589	2.416468	1.149909	.2393424	.2956486
#1	150.0349	836.0231	827.2438	118.0698	134.1968	797.9390	806.7105
#2	149.6411	849.0144	841.2632	122.9471	131.4591	801.4430	805.2169
#3	146.3134	837.7774	836.2050	123.3366	134.0195	801.0305	802.0515
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1307.575	766.7842	175240.9
SDEV	3.260	5.0149	1289.5
%RSD	.2493528	.6540129	.7358167
#1	1306.541	761.4675	175441.5
#2	1311.227	771.4296	173862.9
#3	1304.956	767.4556	176418.2
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408024-01 OPERATOR:
RUN TIME: 08/11/14 19:47:25
COMMENT: SDG:1408024 CLIENTID:P001-S002 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.875293	9625.954	243.2568	4.072026	32104.67	-.906160	-16.7016
SDEV	.746469	59.783	.8166	.407178	202.73	.295769	1.6756
%RSD	85.28218	.6210595	.3357062	9.999385	.6314690	32.63984	10.03274
#1	-.409899	9679.059	242.9024	3.688894	32309.96	-.696644	-15.1652
#2	-1.73630	9637.599	242.6772	4.027580	32099.45	-.777344	-16.4514
#3	-.479681	9561.206	244.1907	4.499603	31904.60	-1.24449	-18.4883
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	38.71736	74.28289	16149.10	2581.532	7104.839	621.7342	856.7540
SDEV	1.06391	.73219	256.57	17.935	102.890	11.4683	121.5855
%RSD	2.747888	.9856738	1.588741	.6947492	1.448173	1.844571	14.19142
#1	39.66771	73.67711	16398.50	2601.123	7203.866	631.7795	915.4835
#2	38.91636	74.07503	16162.88	2577.551	7112.173	624.1843	937.8256
#3	37.56800	75.09654	15885.92	2565.922	6998.478	609.2388	716.9530
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	22.33415	1.125333	15.68498	932.2092	262.6612	4.084388	22.89032
SDEV	.76556	3.109599	.59886	17.9275	3.1434	.312190	3.48969
%RSD	3.427772	276.3272	3.818047	1.923120	1.196737	7.643484	15.24526
#1	23.21814	-2.15241	16.14314	951.1691	264.4712	4.257034	26.73695
#2	21.88816	4.033813	15.00735	929.9257	264.4809	4.272122	22.00648
#3	21.89617	1.494595	15.90446	915.5330	259.0316	3.724008	19.92752
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.007232	270.8137	258.5911	-6.99513	9.615781	27.10789	6.600235
SDEV	1.570102	4.8738	2.8620	2.26203	.891057	.39105	.385650
%RSD	39.18171	1.799692	1.106774	32.33721	9.266617	1.442558	5.842980
#1	5.547272	275.6639	258.8832	-4.44890	8.603413	26.73317	6.741387
#2	4.065721	270.8605	261.2958	-7.76396	10.28108	27.51344	6.163895
#3	2.408702	265.9166	255.5942	-8.77254	9.962853	27.07707	6.895422
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	270.7328	31.89556	173282.0
SDEV	1.2509	1.63819	1584.8
%RSD	.4620388	5.136110	.9145806
#1	271.3461	33.66229	171784.6
#2	269.2936	31.59757	173119.8
#3	271.5587	30.42682	174941.7
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408024-03 OPERATOR:
RUN TIME: 08/11/14 19:54:38
COMMENT: SDG:1408024 CLIENTID:P001-S003 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.411282	17030.93	2353.164	6.072539	86176.08	-.870670	-12.2877
SDEV	.668779	309.44	24.168	1.714642	1062.27	.234557	.4533
%RSD	162.6082	1.816949	1.027028	28.23600	1.232676	26.93984	3.688843
#1	-.097079	16790.46	2342.553	7.838646	85502.51	-1.08127	-12.6353
#2	.0425350	16922.29	2336.117	5.964502	85625.09	-.617884	-12.4529
#3	-1.17930	17380.04	2380.822	4.414471	87400.64	-.912853	-11.7750
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	49.74692	148.3976	23424.07	3357.490	17422.29	975.6905	1100.479
SDEV	.74058	1.3995	250.47	35.973	219.60	13.7873	291.342
%RSD	1.488701	.9430530	1.069290	1.071439	1.260459	1.413083	26.47408
#1	48.89319	148.0656	23271.03	3325.385	17273.50	967.3678	827.2686
#2	50.21653	147.1941	23288.06	3350.714	17318.85	968.0985	1407.075
#3	50.13103	149.9333	23713.12	3396.369	17674.50	991.6051	1067.092
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	28.41303	-3.19438	24.67876	1887.781	409.9107	1.680947	18.93559
SDEV	.38479	2.50142	.08257	14.264	4.4532	1.274084	1.23290
%RSD	1.354282	78.30699	.3345725	.7555768	1.086387	75.79560	6.511041
#1	28.08110	-.316722	24.59933	1878.979	404.8252	1.146353	17.96544
#2	28.32319	-4.41774	24.76414	1880.126	411.7948	3.135235	20.32298
#3	28.83479	-4.84868	24.67280	1904.237	413.1122	.7612537	18.51836
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.041507	413.6268	408.0554	-13.9886	9.503894	23.46365	9.600135
SDEV	1.334045	7.6086	3.3087	3.4298	.697566	1.29012	.116557
%RSD	18.94544	1.839492	.8108351	24.51845	7.339789	5.498396	1.214119
#1	8.481106	404.9786	404.7485	-13.9881	8.702169	24.62563	9.468860
#2	6.796407	419.2916	408.0519	-10.5590	9.972032	22.07534	9.640069
#3	5.847007	416.6102	411.3658	-17.4186	9.837480	23.68998	9.691476
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	537.8419	33.76228	171166.2
SDEV	6.8566	.31620	1345.6
%RSD	1.274840	.9365552	.7861135
#1	534.6707	33.73539	172555.7
#2	533.1449	33.46038	171073.5
#3	545.7101	34.09107	169869.4
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408024-04 OPERATOR:
RUN TIME: 08/11/14 20:01:51
COMMENT: SDG:1408024 CLIENTID:P001-S006 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7145787	42021.35	2904.124	9.651911	372914.1	28.25192	23.99341
SDEV	.3957712	250.30	5.666	.760055	1577.9	.33920	.84387
%RSD	55.38526	.5956378	.1951103	7.874661	.4231312	1.200624	3.517092
#1	.2619761	41813.94	2900.264	9.081684	372301.8	28.64290	24.91669
#2	.8861253	42299.36	2901.479	9.359257	374706.4	28.03622	23.26199
#3	.9956346	41950.73	2910.629	10.51479	371734.1	28.07666	23.80154
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1463.103	293.3046	91006.34	40620.80	61926.00	2357.022	3765.405
SDEV	9.639	2.6432	141.05	168.01	149.21	10.871	53.691
%RSD	.6588002	.9011954	.1549916	.4136076	.2409470	.4611980	1.425909
#1	1455.266	290.2544	90924.02	40448.19	61754.16	2356.343	3713.015
#2	1473.866	294.9241	91169.20	40630.40	62022.79	2368.216	3820.309
#3	1460.177	294.7353	90925.78	40783.80	62001.04	2346.507	3762.891
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	941.8437	9.028174	1479.204	3025.718	499.3695	19.94962	25.09881
SDEV	1.7214	2.667661	16.146	10.560	2.4861	4.33492	2.79437
%RSD	.1827701	29.54818	1.091552	.3490008	.4978438	21.72935	11.13349
#1	940.7863	6.395054	1471.619	3037.856	502.2182	14.98580	25.79792
#2	940.9147	8.960384	1497.747	3020.655	498.2525	21.87303	27.47725
#3	943.8300	11.72908	1468.248	3018.642	497.6379	22.99003	22.02126
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	126.1222	505.8041	496.1570	16.02667	21.90808	33.60942	24.15319
SDEV	1.0812	1.4237	4.2979	4.90934	4.30494	1.97239	.73643
%RSD	.8572874	.2814701	.8662441	30.63229	19.65001	5.868568	3.048976
#1	126.8550	504.6794	500.9893	10.52014	17.21521	33.24292	24.62481
#2	124.8804	505.3279	494.7200	19.94620	22.83492	31.84598	23.30460
#3	126.6311	507.4048	492.7617	17.61367	25.67410	35.73935	24.53018
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1446.896	141.9188	164507.7
SDEV	16.260	.7914	643.4
%RSD	1.123800	.5576693	.3910957
#1	1430.730	141.0394	163766.4
#2	1463.249	142.5737	164835.5
#3	1446.707	142.1433	164921.1
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408024-05 OPERATOR:
RUN TIME: 08/11/14 20:09:03
COMMENT: SDG:1408024 CLIENTID:P001-S001 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.088767	22654.59	2621.400	6.776511	66638.27	17.16295	-2.51186
SDEV	.349689	114.20	2.762	.613521	176.70	.04875	.53108
%RSD	16.74141	.5040966	.1053823	9.053647	.2651592	.2840357	21.14279
#1	1.751350	22632.49	2618.431	6.445116	66738.18	17.11699	-3.05450
#2	2.065396	22553.05	2623.895	6.399952	66434.26	17.15776	-1.99316
#3	2.449556	22778.22	2621.873	7.484464	66742.39	17.21408	-2.48791
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	469.6833	19322.27	38585.82	3269.766	17207.84	1015.261	1508.298
SDEV	1.7889	40.00	44.71	18.115	32.08	3.253	353.805
%RSD	.3808761	.2070312	.1158685	.5540004	.1864379	.3204276	23.45725
#1	470.6461	19279.81	38575.43	3249.072	17176.72	1013.554	1100.348
#2	467.6192	19327.75	38547.23	3277.476	17205.99	1013.216	1693.272
#3	470.7846	19359.25	38634.81	3282.749	17240.81	1019.012	1731.273
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	44.62814	-2.54223	36.04814	6959.586	2463.882	4.257659	17.21369
SDEV	.14147	4.05856	.52520	18.996	20.229	2.506382	.59865
%RSD	.3170001	159.6459	1.456950	.2729465	.8210243	58.86762	3.477743
#1	44.65739	-6.45378	35.75616	6953.133	2449.432	5.028808	17.07304
#2	44.75270	-2.82180	36.65446	6944.657	2455.214	1.456313	17.87014
#3	44.47434	1.648895	35.73382	6980.968	2487.001	6.287856	16.69789
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	11.49557	2460.620	2465.511	-5.83061	9.294158	119.8452	107.7546
SDEV	.36890	48.897	16.387	7.62020	4.435460	3.5978	1.1680
%RSD	3.209048	1.987183	.6646569	130.6931	47.72310	3.002007	1.083956
#1	11.21293	2407.289	2470.473	-13.1567	14.10788	115.9821	108.7041
#2	11.36091	2471.232	2447.217	-6.38813	5.372580	120.4536	106.4503
#3	11.91288	2503.340	2478.844	2.053040	8.402016	123.1000	108.1093
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	537.5897	39.92063	164984.6
SDEV	6.5478	.16264	310.7
%RSD	1.218000	.4074069	.1883094
#1	534.3950	39.97126	165143.6
#2	533.2524	39.73871	165183.6
#3	545.1216	40.05194	164626.6
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408024-07 OPERATOR:
RUN TIME: 08/11/14 20:16:16
COMMENT: SDG:1408024 CLIENTID:P001-S005 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2869404	31117.85	381.3381	15.08354	364572.3	2.717743	359.6223
SDEV	.4946851	123.31	3.1743	.18543	2105.8	3.237507	1.9122
%RSD	172.3999	.3962675	.8324150	1.229335	.5776153	119.1248	.5317365
#1	.1124590	31049.17	377.6728	14.92339	365943.1	-1.01169	361.6371
#2	-.096861	31044.17	383.1812	15.04054	362147.6	4.805969	357.8325
#3	.8452231	31260.21	383.1605	15.28669	365626.3	4.358948	359.3974
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1685.476	3046.294	H1448655.	4682.402	29014.65	10602.57	8512.287
SDEV	7.619	21.179	3076.	18.295	169.59	29.71	137.091
%RSD	.4520201	.6952225	.2123005	.3907083	.5845114	.2802279	1.610512
#1	1692.822	3022.702	H1450879.	4661.933	29110.45	10616.11	8438.288
#2	1677.611	3063.667	H1445145.	4697.159	28818.83	10568.50	8428.097
#3	1685.995	3052.512	H1449940.	4688.114	29114.66	10623.10	8670.478
ERRORS	LC PASS	LC PASS	LC HIGH	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1045.415	1077.798	1964.002	377.5271	445.1168	-414.594	151.0064
SDEV	4.758	9.622	1.554	2.6665	2.6804	1.470	7.8877
%RSD	.4550826	.8927692	.0791269	.7063126	.6021764	.3546279	5.223399
#1	1050.419	1073.588	1963.575	380.1955	444.0253	-415.825	149.0814
#2	1040.950	1070.998	1962.706	374.8625	443.1544	-414.991	144.2594
#3	1044.876	1088.807	1965.725	377.5232	448.1707	-412.966	159.6784
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1658.004	473.9987	430.6974	124.3136	-683.644	224.9976	176.3686
SDEV	11.302	4.9140	3.7716	7.3183	5.814	5.0152	1.2297
%RSD	.6816745	1.036715	.8756878	5.886980	.8504158	2.228999	.6972168
#1	1670.822	478.0524	427.0371	131.7049	-689.179	226.7061	175.0658
#2	1649.470	468.5334	430.4839	124.1651	-684.165	228.9354	176.5308
#3	1653.720	475.4105	434.5712	117.0706	-677.587	219.3514	177.5091
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	712.6121	494.1011	151481.6
SDEV	1.8310	6.7807	735.8
%RSD	.2569464	1.372326	.4857651
#1	713.9435	497.7360	151061.7
#2	710.5240	486.2780	152331.2
#3	713.3688	498.2894	151051.9
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408024-07RE1 OPERATOR:
RUN TIME: 08/11/14 20:23:29
COMMENT: SDG:1408024 CLIENTID:P001-S005 1:10
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.852184	3038.053	36.34754	1.978549	38144.28	-24.7431	27.70233
SDEV	.131959	38.631	.21599	1.292992	370.09	.5209	2.40045
%RSD	15.48482	1.271559	.5942373	65.35055	.9702488	2.105261	8.665155
#1	-.759374	3076.915	36.59691	.7786379	38569.60	-24.1418	29.86099
#2	-.793933	2999.657	36.22613	3.347913	37895.61	-25.0559	25.11724
#3	-1.00325	3037.588	36.21957	1.809095	37967.63	-25.0316	28.12875
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	174.8159	308.0147	H257840.5	455.8937	3159.839	1095.870	735.8375
SDEV	1.6747	1.9310	2100.7	11.4603	50.066	8.489	162.3704
%RSD	.9580020	.6269260	.8147326	2.513807	1.584457	.7746352	22.06606
#1	176.5729	309.6426	H259735.9	468.4337	3215.962	1104.717	888.3798
#2	174.6370	305.8812	H255581.8	445.9632	3119.766	1087.792	565.1616
#3	173.2378	308.5204	H258203.8	453.2841	3143.789	1095.100	753.9713
ERRORS	LC PASS	LC PASS	LC HIGH	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	113.5851	45.08525	232.1928	42.20750	11.35179	-8.99641	10.93650
SDEV	2.2299	3.56278	1.5827	1.55656	1.05761	1.48548	1.02698
%RSD	1.963214	7.902325	.6816265	3.687871	9.316678	16.51193	9.390387
#1	115.0176	43.95058	233.9427	43.40056	11.03896	-9.09147	9.821266
#2	111.0159	49.07717	231.7745	40.44678	10.48588	-7.46569	11.14499
#3	114.7219	42.22799	230.8613	42.77515	12.53052	-10.4321	11.84323
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	175.2777	5.666954	14.18985	12.81628	-19.8865	24.99983	19.33105
SDEV	1.3804	4.000781	2.53571	3.54955	1.5668	.24946	1.05601
%RSD	.7875375	70.59844	17.86990	27.69567	7.878858	.9978657	5.462778
#1	175.6260	1.187882	15.95702	9.793644	-18.5199	24.85965	20.43120
#2	173.7566	8.886124	11.28447	16.72491	-19.5429	24.85198	18.32555
#3	176.4506	6.926857	15.32806	11.93029	-21.5966	25.28785	19.23640
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	70.82741	78.41238	168048.1
SDEV	.54447	2.22788	1466.4
%RSD	.7687298	2.841230	.8726079
#1	71.43731	80.94806	167172.8
#2	70.65461	76.76881	169741.0
#3	70.39030	77.52027	167230.4
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 4080806-BLK1 OPERATOR:
RUN TIME: 08/11/14 20:30:42
COMMENT: SDG:1408013 CLIENTID:PBWFC 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.45464	-26.2790	-.209361	2.819820	-87.3787	-3.03493	L-14.2849
SDEV	.19436	13.1263	.081161	.562789	10.9697	.14587	.4380
%RSD	13.36127	49.94974	38.76594	19.95834	12.55420	4.806343	3.066444
#1	-1.24518	-30.6698	-.165354	3.427813	-81.0225	-3.20318	L-14.6989
#2	-1.48959	-36.6471	-.159708	2.317103	-100.045	-2.95777	L-14.3297
#3	-1.62915	-11.5202	-.303020	2.714543	-81.0683	-2.94385	L-13.8262
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC LOW
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-5.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.356876	-4.88913	26.46405	2.215773	12.02191	-.082204	50.19045
SDEV	1.030697	.77522	15.72210	8.704498	1.25323	.151526	67.69334
%RSD	288.8114	15.85602	59.40929	392.8426	10.42454	184.3286	134.8729
#1	.4187149	-4.97214	38.83123	7.372493	10.70378	.0004423	127.9534
#2	-1.52645	L-5.61950	8.770718	7.108990	12.16376	-.257084	18.17092
#3	.0371099	-4.07574	31.79020	-7.83416	13.19817	.0100287	4.447082
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000
LOW	-5.00000	-5.00000	-100.000	-5000.00	-5000.00	-10.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.296959	-3.31441	.3287866	-1.58366	1.211231	.9617935	5.287267
SDEV	.354057	1.71454	.2224573	.13600	1.434046	.7567043	.064711
%RSD	119.2274	51.72991	67.66007	8.587841	118.3957	78.67637	1.223897
#1	.0441335	-1.35236	.3319321	-1.50810	2.616847	.9045136	5.298954
#2	-.662693	-4.06647	.5496544	-1.74066	-.249647	1.745510	5.345338
#3	-.272319	-4.52441	.1047733	-1.50221	1.266493	.2353570	5.217509
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000
LOW	-40.0000	-10.0000	-20.0000	-20.0000	-3.00000	-5.00000	-10.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.52315	6.062821	-1.21101	-5.47254	4.174065	-.462740	.4524771
SDEV	1.35504	2.304572	1.11179	1.84326	1.342287	1.069443	.5052381
%RSD	88.96253	38.01155	91.80693	33.68200	32.15780	231.1109	111.6605
#1	-3.00850	8.643756	-.392170	-7.59152	5.146092	-1.07854	-.091082
#2	-1.20641	4.210985	-2.47670	-4.23973	4.733570	-1.08182	.5407543
#3	-.354546	5.333723	-.764154	-4.58637	2.642533	.7721445	.9077591
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	10.00000					100.0000	5.000000
LOW	-10.0000					-100.000	-5.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	-.064159	3.469965	167861.9
SDEV	.198758	.561310	1089.4
%RSD	309.7904	16.17625	.6489688
#1	-.037298	3.047886	169003.9
#2	-.274981	3.255029	166834.1
#3	.1198025	4.106981	167747.6
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	40.00000	200.0000	
LOW	-40.0000	-200.000	

METHOD: P4S12014 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 08/11/14 20:37:55
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	91.67002	53447.12	996.1923	951.0415	48555.20	942.1396	920.8240
SDEV	1.07533	176.06	2.2909	.8970	24.33	3.6790	5.3567
%RSD	1.173044	.3294015	.2299705	.0943161	.0501147	.3904964	.5817318
#1	90.69189	53549.83	993.9332	951.9589	48528.31	945.6599	926.8487
#2	92.82149	53547.69	998.5138	950.9993	48575.71	942.4387	919.0247
#3	91.49668	53243.83	996.1301	950.1664	48561.57	938.3201	916.5986
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	977.5016	926.0073	24085.29	46576.65	46260.28	967.5832	46140.59
SDEV	3.1849	4.8060	72.50	199.16	295.89	3.3699	233.97
%RSD	.3258170	.5190020	.3009996	.4275969	.6396256	.3482796	.5070770
#1	981.1749	922.1908	24158.81	46677.39	46582.48	971.4299	46291.23
#2	975.8191	931.4045	24083.18	46705.31	46197.65	966.1680	46259.50
#3	975.5109	924.4264	24013.87	46347.24	46000.72	965.1517	45871.05
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	960.1215	982.4787	957.9644	936.9775	929.4244	Q875.4166	961.8201
SDEV	2.9622	3.0786	6.4599	3.1734	4.2081	8.6975	6.5218
%RSD	.3085279	.3133511	.6743333	.3386897	.4527642	.9935282	.6780675
#1	962.6110	979.5733	961.9653	940.5524	934.0581	Q885.4022	966.6717
#2	960.9083	985.7053	961.4160	935.8872	925.8408	Q871.3518	964.3823
#3	956.8453	982.1574	950.5120	934.4930	928.3744	Q869.4956	954.4063
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC FAIL	QC PASS
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	Q889.8963	921.1367	933.5623	899.7600	863.2629	972.8270	949.4665
SDEV	7.5800	2.6848	5.4785	6.6544	10.5239	7.8166	4.0623
%RSD	.8517886	.2914699	.5868357	.7395700	1.219079	.8034966	.4278489
#1	898.4680	922.4820	939.8377	905.4818	875.3774	981.2755	945.3919
#2	Q887.1439	918.0451	929.7328	901.3406	856.3798	971.3534	953.5164
#3	Q884.0770	922.8828	931.1163	892.4577	858.0317	965.8520	949.4915
ERRORS	QC FAIL	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1008.460	947.4003	173108.5
SDEV	.636	7.6956	1118.9
%RSD	.0631004	.8122890	.6463320
#1	1009.195	955.5121	171826.5
#2	1008.095	946.4863	173887.9
#3	1008.091	940.2024	173611.2
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: P4S12014 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 08/11/14 20:45:15
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.674986	-136.365	-.048086	-.090729	-89.2447	-3.20433	Q-18.2070
SDEV	.304977	4.625	.088982	1.776625	23.5774	.35618	.8288
%RSD	45.18270	3.391456	185.0468	1958.167	26.41888	11.11567	4.551875
#1	-.756384	-135.514	.0332879	.5639634	-83.6884	-3.36833	Q-18.0603
#2	-.931005	-132.224	-.034446	-2.10180	-115.104	-2.79569	Q-17.4613
#3	-.337569	-141.356	-.143101	1.265650	-68.9416	-3.44897	Q-19.0993
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC FAIL
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0037268	Q-6.77344	30.56328	11.16768	8.152441	.1045137	-139.576
SDEV	.5361041	.53709	1.45785	3.13458	2.403637	.0473950	103.298
%RSD	14385.28	7.929370	4.769933	28.06832	29.48365	45.34812	74.00834
#1	.6183265	Q-6.54119	32.24586	11.97256	10.90369	.0746568	-20.9119
#2	-.239480	Q-6.39156	29.76692	7.709147	7.093775	.1591625	-209.376
#3	-.367666	Q-7.38757	29.67706	13.82134	6.459863	.0797217	-188.439
ERRORS	QC PASS	QC FAIL	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5644224	3.069515	.3615917	.2197181	-1.04052	-1.44755	.4085042
SDEV	.2832453	4.100450	.3272809	.1680184	1.21514	2.03029	2.118011
%RSD	50.18322	133.5862	90.51117	76.46999	116.7815	140.2566	518.4797
#1	.3524469	3.923270	.0041925	.3960614	-1.91524	.0486249	2.755015
#2	.4547072	-1.39060	.4339327	.2015997	.3469482	-3.75871	-.167771
#3	.8861129	6.675876	.6466500	.0614932	-1.55328	-.632581	-1.36173
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6710291	-1.77116	-.675830	-.787034	-1.77718	-.124631	3.052850
SDEV	1.765678	.92719	2.262209	7.872696	1.02128	.099221	1.165294
%RSD	263.1299	52.34942	334.7304	1000.299	57.46623	79.61190	38.17070
#1	-1.34604	-1.43123	-2.15696	5.974449	-2.90991	-.236994	4.203152
#2	1.936851	-2.82034	1.928141	-9.43001	-.926749	-.087829	1.873121
#3	1.422275	-1.06191	-1.79867	1.094457	-1.49487	-.049068	3.082277
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	10.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.1339378	1.560241	175580.3
SDEV	.2439162	1.146029	1236.9
%RSD	182.1116	73.45206	.7044811
#1	.4130313	2.689392	176590.9
#2	-.038399	1.593281	174200.9
#3	.0271815	.3980489	175949.2
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	40.00000	200.0000	

METHOD: P4S12014 SAMPLE NAME: 4080806-BS1 OPERATOR:
RUN TIME: 08/11/14 20:52:33
COMMENT: SDG:1408013 CLIENTID:MLCSFC 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	500.8843	2581.629	555.2651	524.4949	10810.54	517.9012	502.5707
SDEV	5.5640	28.191	3.5469	3.2577	14.31	1.4410	4.2079
%RSD	1.110839	1.091977	.6387755	.6211033	.1323746	.2782442	.8372734
#1	494.4597	2613.041	553.8324	528.1964	10817.72	516.3253	504.8752
#2	504.0620	2573.316	552.6586	523.2240	10819.84	519.1518	497.7139
#3	504.1313	2558.529	559.3042	522.0642	10794.06	518.2264	505.1228
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	660.0000	3120.000	660.0000	660.0000	13200.00	660.0000	660.0000
LOW	440.0000	2080.000	440.0000	440.0000	8800.000	440.0000	440.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	548.7872	502.3841	5050.317	10177.01	5313.772	543.2916	9647.476
SDEV	3.3033	3.6067	8.554	63.46	18.234	2.6364	193.804
%RSD	.6019342	.7179081	.1693658	.6235795	.3431529	.4852566	2.008855
#1	549.9551	498.3618	5044.520	10242.53	5329.922	543.9544	9871.106
#2	545.0586	503.4606	5046.290	10172.66	5293.998	540.3872	9528.461
#3	551.3480	505.3299	5060.141	10115.83	5317.396	545.5334	9542.859
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	660.0000	660.0000	6120.000	13200.00	7200.000	660.0000	13200.00
LOW	440.0000	440.0000	4080.000	8800.000	4800.000	440.0000	8800.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	529.5239	1093.861	539.1406	1032.873	1021.461	886.4318	1021.014
SDEV	1.0072	1.684	6.6424	7.188	.859	4.5747	3.306
%RSD	.1902130	.1539951	1.232027	.6958921	.0840895	.5160757	.3237706
#1	528.6765	1091.916	546.5693	1029.279	1021.973	891.5927	1019.442
#2	530.6375	1094.851	533.7736	1028.192	1020.469	884.8269	1024.812
#3	529.2578	1094.817	537.0787	1041.149	1021.940	882.8759	1018.788
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	660.0000	1320.000	660.0000	1320.000	1320.000	1320.000	1320.000
LOW	440.0000	880.0000	440.0000	880.0000	880.0000	880.0000	880.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	924.9949	1019.188	1022.595	898.8373	880.2383	1062.862	1082.694
SDEV	5.3070	7.781	2.681	9.0056	4.2128	2.987	2.521
%RSD	.5737348	.7634031	.2621748	1.001915	.4786007	.2810374	.2328113
#1	928.6614	1025.891	1020.017	908.3150	883.2440	1059.508	1080.489
#2	927.4140	1010.655	1025.368	890.3930	882.0479	1063.845	1082.150
#3	918.9094	1021.017	1022.401	897.8038	875.4230	1065.235	1085.442
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	1320.000						
LOW	880.0000						

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1107.341	986.5445	174263.6
SDEV	3.339	5.0593	2111.9
%RSD	.3015034	.5128287	1.211882
#1	1109.829	990.7731	171877.4
#2	1108.647	987.9210	175021.6
#3	1103.547	980.9394	175891.9
ERRORS	NOCHECK	LC PASS	NOCHECK
HIGH		1320.000	
LOW		880.0000	

METHOD: P4S12014 SAMPLE NAME: 4080806-BSD1 OPERATOR:
RUN TIME: 08/11/14 20:59:46
COMMENT: SDG:1408013 CLIENTID:MLCSDFC 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	503.8055	2633.527	557.1766	518.6819	10719.56	512.1977	497.2757
SDEV	1.7949	42.024	1.5637	2.1416	61.22	.2169	3.1834
%RSD	.3562618	1.595735	.2806436	.4128968	.5711430	.0423389	.6401622
#1	502.8038	2674.382	558.8671	521.0498	10784.33	512.4470	500.6484
#2	505.8777	2635.774	555.7819	516.8805	10662.64	512.0525	496.8552
#3	502.7351	2590.424	556.8810	518.1153	10711.70	512.0935	494.3234
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	660.0000	3120.000	660.0000	660.0000	13200.00	660.0000	660.0000
LOW	440.0000	2080.000	440.0000	440.0000	8800.000	440.0000	440.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	544.1299	509.0818	5000.057	10458.45	5280.091	539.9235	9917.677
SDEV	5.7626	3.2569	40.526	122.75	32.396	4.6313	186.052
%RSD	1.059051	.6397592	.8105093	1.173686	.6135554	.8577707	1.875960
#1	550.5975	510.3631	5045.394	10546.78	5316.208	544.7682	9988.892
#2	539.5413	511.5032	4987.429	10510.29	5270.472	539.4622	10057.60
#3	542.2510	505.3791	4967.349	10318.29	5253.594	535.5401	9706.537
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	660.0000	660.0000	6120.000	13200.00	7200.000	660.0000	13200.00
LOW	440.0000	440.0000	4080.000	8800.000	4800.000	440.0000	8800.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	526.0943	1089.162	536.6672	1016.081	1012.332	889.2926	1031.336
SDEV	1.2326	4.921	5.5644	4.405	6.549	4.2561	6.969
%RSD	.2342918	.4517974	1.036836	.4335393	.6469077	.4785965	.6757195
#1	526.8399	1083.971	542.6516	1020.229	1010.428	884.4924	1039.378
#2	526.7714	1089.756	531.6496	1016.558	1006.946	890.7800	1027.072
#3	524.6716	1093.758	535.7004	1011.457	1019.621	892.6054	1027.557
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	660.0000	1320.000	660.0000	1320.000	1320.000	1320.000	1320.000
LOW	440.0000	880.0000	440.0000	880.0000	880.0000	880.0000	880.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	922.7302	1006.871	1015.058	901.7369	883.0797	1059.743	1085.071
SDEV	3.3226	9.810	7.368	3.4462	5.4444	5.906	4.188
%RSD	.3600860	.9743186	.7258451	.3821722	.6165228	.5572601	.3859307
#1	922.4018	996.9475	1017.158	898.5961	877.4510	1066.513	1082.495
#2	926.2049	1007.101	1006.868	905.4233	883.4691	1055.651	1082.815
#3	919.5841	1016.564	1021.148	901.1912	888.3188	1057.065	1089.903
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	1320.000						
LOW	880.0000						

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1111.052	996.3256	173993.3
SDEV	8.242	5.9855	377.7
%RSD	.7418230	.6007587	.2170841
#1	1120.358	1001.913	173629.7
#2	1104.671	997.0546	173966.5
#3	1108.128	990.0089	174383.7
ERRORS	NOCHECK	LC PASS	NOCHECK
HIGH		1320.000	
LOW		880.0000	

METHOD: P4S12014 SAMPLE NAME: 1408013-01 OPERATOR:
RUN TIME: 08/11/14 21:06:59
COMMENT: SDG:1408013 CLIENTID:EB080414 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.570341	-32.8882	1.521476	1.344353	76.57037	-3.97308	-22.0834
SDEV	.179163	3.3813	.101162	.049203	26.79265	.05918	.3998
%RSD	31.41322	10.28110	6.648970	3.659979	34.99089	1.489431	1.810199
#1	-.372484	-29.4099	1.443965	1.373058	100.1647	-3.99270	-21.7128
#2	-.616940	-33.0915	1.635914	1.372462	82.10310	-4.01996	-22.5070
#3	-.721601	-36.1633	1.484547	1.287540	47.44328	-3.90659	-22.0304
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.243506	-6.39135	121.0752	93.85659	72.57187	6.251301	202.0218
SDEV	.322155	.68514	9.7952	2.90603	.83702	.095678	130.6672
%RSD	132.2987	10.71983	8.090202	3.096243	1.153365	1.530524	64.67978
#1	-.055548	-5.69417	132.1505	95.17169	72.54620	6.352507	282.8750
#2	-.615492	-6.41609	117.5247	95.87260	73.42142	6.162329	271.9174
#3	-.059478	-7.06378	113.5503	90.52549	71.74798	6.239067	51.27293
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5628310	2.205121	.8848014	1.394527	-.733826	2.069917	3.020398
SDEV	.6169317	2.528024	.2802649	.050656	.751224	1.967962	1.235550
%RSD	109.6123	114.6434	31.67545	3.632505	102.3708	95.07447	40.90685
#1	.9544613	.9386587	.6757462	1.336157	.0780829	4.289492	4.407093
#2	.8823545	5.116061	1.203269	1.420426	-1.40424	1.382018	2.617552
#3	-.148323	.5606416	.7753891	1.426997	-.875320	.5382398	2.036549
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.121821	2.368438	-2.28271	3.529216	1.341293	1.111370	4.039308
SDEV	2.232393	.898461	.69085	2.616757	2.336614	1.344177	.956042
%RSD	198.9972	37.93476	30.26455	74.14558	174.2061	120.9477	23.66846
#1	-1.08516	3.253610	-1.50738	4.928679	3.970309	.6095392	5.102195
#2	1.071843	1.457252	-2.83292	5.148653	-.498544	2.634266	3.766164
#3	3.378782	2.394452	-2.50783	.5103146	.5521132	.0903050	3.249564
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	8.973349	7.289493	176084.3
SDEV	.083931	1.650426	744.8
%RSD	.9353328	22.64116	.4229607
#1	9.044105	8.972481	175239.7
#2	8.995326	7.222317	176647.0
#3	8.880616	5.673680	176366.1
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408003-03 OPERATOR:
RUN TIME: 08/11/14 21:14:12
COMMENT: SDG:1408003 CLIENTID:GW-8 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.303406	968.4900	158.8096	2.370660	123168.0	-3.34929	-17.5688
SDEV	.636904	15.5189	1.2051	.552700	418.5	.20540	.3578
%RSD	209.9178	1.602382	.7588429	23.31419	.3398128	6.132706	2.036642
#1	.4295395	985.8810	158.4975	2.940850	123650.8	-3.30311	-17.1565
#2	-.617543	963.5366	157.7912	1.837292	122945.1	-3.17090	-17.7507
#3	-.722215	956.0525	160.1400	2.333838	122908.1	-3.57384	-17.7990
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.273359	-4.74558	734.8967	3649.647	80307.93	103.8715	229506.4
SDEV	.471127	.58381	3.8430	46.350	317.84	.4020	1703.4
%RSD	36.99878	12.30222	.5229343	1.269993	.3957731	.3870438	.7422070
#1	1.816524	-4.37153	739.2971	3703.133	80633.27	103.6879	231471.6
#2	.9755124	-4.44691	732.2003	3624.560	80292.35	104.3325	228593.8
#3	1.028041	-5.41830	733.1926	3621.248	79998.16	103.5940	228453.6
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.112361	-2.49521	5.261309	6.036890	.4715275	.3591566	4.578486
SDEV	.908448	3.27912	.907181	.394841	1.311630	.9288958	3.186578
%RSD	43.00627	131.4165	17.24251	6.540478	278.1663	258.6325	69.59895
#1	1.835749	-5.88378	6.288317	5.695276	-.833025	1.354301	7.452127
#2	3.126961	.6622324	4.926465	6.469182	1.790123	.2081577	5.131872
#3	1.374373	-2.26409	4.569145	5.946212	.4574839	-.484989	1.151459
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.591715	4.308662	-1.44424	.0107789	.5330141	2.117522	8.886379
SDEV	1.342432	1.028614	1.46228	3.079503	.6749142	3.395507	1.339940
%RSD	51.79707	23.87317	101.2491	28569.72	126.6222	160.3528	15.07859
#1	1.041628	3.200598	-2.84689	2.392801	.8357590	5.945831	10.01243
#2	3.373622	5.233089	.0711422	1.106210	-.240265	-.529779	9.242294
#3	3.359895	4.492300	-1.55697	-3.46667	1.003549	.9365132	7.404416
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	47.22200	82.25988	171537.9
SDEV	.26460	1.36175	1059.4
%RSD	.5603414	1.655429	.6176161
#1	47.16951	83.55600	170493.7
#2	47.50892	82.38282	171508.2
#3	46.98758	80.84083	172611.9
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: SDI1408003-03 OPERATOR:
RUN TIME: 08/11/14 21:21:25
COMMENT: SDG:1408003 CLIENTID:GW-8L 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.98985	36.49533	31.34023	-1.02794	24633.11	-3.51632	-19.8362
SDEV	2.04859	12.27184	.18997	.87414	261.89	.27657	.9608
%RSD	102.9522	33.62579	.6061475	85.03858	1.063179	7.865423	4.843556
#1	-1.34987	45.16073	31.17745	-1.29696	24739.87	-3.50385	-18.9331
#2	-4.28202	41.87249	31.29430	-1.73594	24334.70	-3.79892	-20.8458
#3	-.337639	22.45278	31.54896	-.050901	24824.76	-3.24619	-19.7297
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.16413	-8.25128	123.9820	655.6596	15864.96	20.61465	43609.21
SDEV	2.06964	1.19491	25.1980	29.1692	151.83	.63735	198.16
%RSD	177.7842	14.48156	20.32392	4.448830	.9570361	3.091740	.4544017
#1	.4886633	-7.16371	150.7215	649.9846	15891.87	21.20543	43633.89
#2	-3.48539	-9.53040	100.6781	629.7449	15701.47	19.93919	43399.88
#3	-.495665	-8.05975	120.5462	687.2493	16001.53	20.69932	43793.89
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3463356	-3.76941	-.165199	1.892211	-2.77243	.6465230	-2.02245
SDEV	.9333448	1.45037	1.425331	.653962	1.37266	1.647589	5.17043
%RSD	269.4915	38.47732	862.7941	34.56073	49.51101	254.8384	255.6515
#1	1.277592	-4.17201	.1429030	2.537735	-2.73413	2.536169	2.636342
#2	-.589084	-4.97595	-1.71938	1.230126	-4.16384	-.107309	-7.58528
#3	.3504982	-2.16028	1.080883	1.908771	-1.41933	-.489291	-1.11842
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.076361	-18.1152	4.887383	-7.70145	4.814183	-.947591	2.279996
SDEV	2.108582	20.3794	8.145024	17.35980	8.460334	3.744037	1.762179
%RSD	2761.351	112.4988	166.6541	225.4096	175.7377	395.1112	77.28870
#1	2.301287	-14.0590	2.919732	-.955055	4.279097	-2.35469	2.554765
#2	-1.71929	-40.2177	13.83599	-27.4217	13.52936	-3.78422	.3965723
#3	-.811076	-.068962	-2.09357	5.272448	-3.36591	3.296138	3.888650
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	9.128410	15.17065	177421.3
SDEV	.728850	1.27711	2703.0
%RSD	7.984409	8.418272	1.523483
#1	9.764562	16.44873	177538.7
#2	8.333150	13.89452	174661.5
#3	9.287520	15.16869	180063.7
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408003-05 OPERATOR:
RUN TIME: 08/11/14 21:28:37
COMMENT: SDG:1408003 CLIENTID:MW-11 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.560382	1308.577	837.8390	.1746409	66111.27	-3.23744	-17.1231
SDEV	.585473	6.117	1.8099	.1266322	594.77	.32566	1.3400
%RSD	104.4775	.4674684	.2160200	72.51003	.8996530	10.05933	7.825623
#1	-.932802	1307.011	839.2084	.0977616	66527.88	-2.95824	-16.3473
#2	.1144551	1303.396	838.5215	.1053639	66375.80	-3.15889	-16.3517
#3	-.862798	1315.326	835.7871	.3207973	65430.12	-3.59520	-18.6704
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.710170	-7.08352	1309.932	2360.625	35061.51	81.30880	135399.0
SDEV	1.488800	1.22960	40.501	11.034	265.99	.53642	224.0
%RSD	87.05572	17.35858	3.091843	.4674045	.7586325	.6597360	.1654650
#1	1.182594	-7.80557	1299.621	2354.300	35138.10	81.15346	135172.8
#2	3.390917	-5.66377	1354.592	2354.210	35280.79	81.90575	135403.2
#3	.5569978	-7.78122	1275.583	2373.366	34765.62	80.86719	135620.8
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.176619	-1.50069	11.23577	8.687789	.4190936	2.221459	4.088030
SDEV	1.280395	5.02189	.74904	.519598	.2221631	1.568780	4.340775
%RSD	40.30685	334.6378	6.666567	5.980784	53.01037	70.61937	106.1826
#1	2.121095	-3.74261	11.51862	8.305227	.6356104	2.092533	3.368208
#2	4.600937	-4.251649	11.80220	9.279341	.1916849	3.850724	8.743720
#3	2.807826	-5.01112	10.38649	8.478799	.4299856	.7211198	.1521620
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.8250268	.6498386	.3038174	.1545720	3.253285	.7817317	.5605726
SDEV	2.475636	2.972652	1.177969	.8346456	1.978012	.8174347	.5198378
%RSD	300.0673	457.4447	387.7227	539.9720	60.80046	104.5672	92.73335
#1	-.263106	2.717533	-.403867	.4802824	2.897381	1.281682	1.108646
#2	3.658361	-2.75680	1.663641	.7772535	5.385087	-.161595	.4985342
#3	-.920174	1.988784	-.348322	-.793820	1.477386	1.225108	.0745379
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	85.40413	35.63989	176602.5
SDEV	.49085	.84382	512.9
%RSD	.5747356	2.367624	.2904148
#1	85.55277	34.96291	176010.3
#2	85.80347	36.58526	176895.8
#3	84.85614	35.37151	176901.5
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408003-09 OPERATOR:
RUN TIME: 08/11/14 21:35:50
COMMENT: SDG:1408003 CLIENTID:MW-10 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.408989	263.9881	164.0793	.1050910	29128.25	-2.94710	-17.3350
SDEV	.885086	2.7111	.5308	.1335619	87.23	.10510	.4302
%RSD	216.4084	1.026967	.3235178	127.0917	.2994589	3.566132	2.481847
#1	.6032361	263.1862	164.4437	.2580475	29038.26	-2.82895	-16.8911
#2	-.792921	261.7684	164.3239	.0115240	29212.43	-2.98221	-17.7501
#3	-1.03728	267.0097	163.4703	.0457016	29134.06	-3.03015	-17.3639
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.105252	-8.17130	375.8110	2464.767	15744.46	23.85943	144863.9
SDEV	.294839	.20170	7.0720	11.315	91.60	.03257	581.7
%RSD	7.181985	2.468456	1.881803	.4590574	.5818049	.1365075	.4015176
#1	4.120601	-7.95497	375.0513	2471.779	15683.58	23.82689	144443.1
#2	3.803038	-8.20475	369.1495	2451.714	15699.99	23.85938	144621.0
#3	4.392116	-8.35419	383.2322	2470.808	15849.81	23.89203	145527.7
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.088795	1.333315	10.52247	5.621687	-.392843	.0581937	3.571371
SDEV	.273084	2.265828	.89983	.083730	.114315	1.686944	2.622344
%RSD	25.08131	169.9394	8.551515	1.489410	29.09938	2898.841	73.42683
#1	.7897022	3.936540	11.56097	5.607270	-.303806	-1.70153	5.448217
#2	1.324843	.2583979	10.03228	5.711689	-.521755	.2146595	4.690805
#3	1.151841	-.194993	9.974169	5.546101	-.352969	1.661454	.5750907
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.627046	1.126348	-1.15138	1.609279	-.716255	.5853198	15.29246
SDEV	1.018940	1.022658	.37908	4.377188	3.964327	2.417795	.56998
%RSD	38.78653	90.79412	32.92439	271.9968	553.4800	413.0725	3.727186
#1	2.368965	1.314322	-1.11173	5.461971	-5.27798	3.281396	15.95060
#2	1.761962	.0227433	-.793673	-3.15032	1.894560	-1.39050	14.96604
#3	3.750211	2.041980	-1.54873	2.516190	1.234658	-.134936	14.96073
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	30.23936	132.5260	175501.1
SDEV	.21626	.5606	731.7
%RSD	.7151492	.4230274	.4169275
#1	30.14189	131.9440	174972.1
#2	30.48719	133.0624	175195.1
#3	30.08899	132.5718	176336.2
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408003-13 OPERATOR:
RUN TIME: 08/11/14 21:43:03
COMMENT: SDG:1408003 CLIENTID:MW-9 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.969346	10224.09	148.9209	.1665914	7723.393	-3.38501	-13.7080
SDEV	.194255	165.59	4.6761	1.224866	172.227	.13205	.8031
%RSD	20.03977	1.619561	3.139959	735.2516	2.229937	3.900982	5.858294
#1	-.760041	10395.05	154.0981	.8505627	7913.391	-3.25417	-13.3687
#2	-1.00415	10064.46	145.0045	-1.24751	7577.524	-3.51824	-14.6250
#3	-1.14384	10212.75	147.6602	.8967220	7679.264	-3.38263	-13.1302
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	16.11754	-2.00651	7198.874	4684.949	4132.038	149.0926	156106.6
SDEV	.44491	.66842	141.302	64.832	58.219	2.7241	1722.2
%RSD	2.760403	33.31248	1.962832	1.383845	1.408966	1.827137	1.103227
#1	15.63913	-2.76973	7352.318	4744.818	4194.068	152.1818	157777.7
#2	16.51887	-1.52537	7074.116	4616.091	4078.581	147.0349	154337.4
#3	16.19461	-1.72444	7170.190	4693.936	4123.465	148.0611	156204.6
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	11.34960	-.668347	21.60612	25.63488	1.035858	-.584718	4.528303
SDEV	.52390	2.819758	.84818	.31596	.451337	2.132025	3.466391
%RSD	4.616023	421.9001	3.925647	1.232553	43.57127	364.6245	76.54944
#1	11.12947	2.142279	22.56781	25.98756	.6968678	-2.95027	.5269052
#2	10.97168	-.650173	20.96475	25.37764	1.548164	1.188523	6.442548
#3	11.94765	-3.49715	21.28580	25.53944	.8625430	.0075945	6.615457
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.812000	.0634582	1.521244	-2.38193	.3124665	2.746596	31.87558
SDEV	.231383	2.773210	.993565	3.20670	1.654777	.846835	.79724
%RSD	6.069863	4370.137	65.31271	134.6263	529.5856	30.83218	2.501099
#1	3.585182	.1553483	.9671353	-6.07093	-1.39236	3.602386	32.66314
#2	3.803126	2.789581	.9283006	-.261102	1.912181	1.909009	31.06900
#3	4.047693	-2.75455	2.668295	-.813745	.4175799	2.728393	31.89461
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	249.0682	195.5588	175855.4
SDEV	4.6644	2.5970	1558.1
%RSD	1.872720	1.328001	.8860396
#1	254.1340	197.4668	174364.6
#2	244.9512	192.6013	177473.1
#3	248.1194	196.6084	175728.5
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408003-14 OPERATOR:
RUN TIME: 08/11/14 21:50:15
COMMENT: SDG:1408003 CLIENTID:GW-7 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.792085	882.3687	551.3365	1.757773	106716.7	-4.01291	-21.6099
SDEV	.666006	7.8949	1.5418	1.185267	676.8	.22184	.6754
%RSD	84.08262	.8947413	.2796483	67.43006	.6342103	5.528046	3.125496
#1	-.373149	878.8297	550.1727	3.118175	105982.9	-4.25271	-22.3898
#2	-.443043	876.8624	553.0851	1.207334	106851.0	-3.97097	-21.2265
#3	-1.56006	891.4139	550.7515	.9478097	107316.4	-3.81503	-21.2135
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7198957	-7.06175	690.3398	1991.373	40298.12	134.9225	77290.31
SDEV	.1723543	.22408	18.1691	12.455	145.72	1.3345	67.28
%RSD	23.94156	3.173170	2.631901	.6254349	.3616016	.9890625	.0870519
#1	.6526939	-7.28592	669.4661	1996.387	40187.84	134.4408	77230.40
#2	.5912654	-7.06157	702.6016	2000.539	40243.21	133.8957	77363.10
#3	.9157277	-6.83776	698.9519	1977.192	40463.32	136.4309	77277.43
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.423760	1.322558	4.872026	4.032564	.7133315	-.588484	2.401282
SDEV	.095061	2.813057	.329491	.180531	1.092205	2.674819	3.065344
%RSD	6.676723	212.6983	6.762917	4.476834	153.1133	454.5268	127.6544
#1	1.477586	4.159157	4.782209	3.860209	.1144254	-2.40965	-1.13681
#2	1.479695	-1.46635	5.237114	4.220289	.0515890	-1.83826	4.082354
#3	1.314001	1.274867	4.596757	4.017193	1.973980	2.482462	4.258307
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.125578	2.538592	-.198009	-1.37151	-.197630	.8636434	.3732454
SDEV	.958317	2.557904	1.454682	6.20748	.996046	1.551797	.3604305
%RSD	45.08501	100.7607	734.6532	452.6026	503.9948	179.6804	96.56661
#1	3.137785	4.014224	-1.83263	-4.91063	-1.16111	-.105308	.7354173
#2	2.006705	-.415020	.2844653	-4.99997	-.259846	2.653464	.0145819
#3	1.232242	4.016573	.9541355	5.796082	.8280655	.0427746	.3697372
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	55.78585	23.34633	171738.5
SDEV	.14711	.67742	570.4
%RSD	.2637017	2.901621	.3321125
#1	55.61599	23.45974	172183.0
#2	55.87159	22.61936	171937.2
#3	55.86998	23.95989	171095.4
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

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METHOD: P4S12014 SAMPLE NAME: LLCCV OPERATOR:
RUN TIME: 08/11/14 21:57:28
COMMENT: LLCCV
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.895215	Q20.99679	201.1440	5.002402	4654.010	Q.4092344	Q-4.02644
SDEV	.659814	.40592	1.9126	.385747	21.055	.1141307	.82264
%RSD	16.93910	1.933262	.9508503	7.711234	.4524022	27.88884	20.43093
#1	Q3.150586	Q21.37429	203.2369	4.753464	4678.317	Q.2933716	Q-4.97195
#2	4.407176	Q20.56743	200.7081	5.446751	4642.265	Q.4127812	Q-3.47475
#3	4.127883	Q21.04866	199.4871	4.806991	4641.447	Q.5215504	Q-3.63260
ERRORS	QC PASS	QC FAIL	QC PASS	QC PASS	QC PASS	QC FAIL	QC FAIL
VALUE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	20.00000
RANGE	1.500000	60.00000	60.00000	1.500000	1500.000	1.500000	6.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.812973	Q-4.30716	152.7094	4287.286	4346.892	9.816312	3792.041
SDEV	.851990	.43727	12.0010	12.448	10.470	.218827	133.219
%RSD	8.682279	10.15225	7.858683	.2903479	.2408669	2.229214	3.513121
#1	10.31266	Q-4.26602	165.1029	4273.546	4335.507	9.734174	3639.350
#2	8.829222	Q-4.76355	141.1439	4297.812	4356.108	10.06432	3884.552
#3	10.29704	Q-3.89191	151.8816	4290.499	4349.060	9.650439	3852.223
ERRORS	QC PASS	QC FAIL	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	5.000000	200.0000	5000.000	5000.000	10.00000	5000.000
RANGE	3.000000	1.500000	60.00000	1500.000	1500.000	3.000000	1500.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.03319	32.56281	19.01401	27.10083	7.895949	Q5.515338	25.63870
SDEV	.67423	.85933	.64292	.36721	1.744722	1.124707	1.40604
%RSD	6.720002	2.638998	3.381288	1.354995	22.09642	20.39235	5.484052
#1	10.79845	31.77429	18.27284	27.45650	Q6.160588	Q5.568852	25.07559
#2	9.526572	32.43541	19.34807	26.72306	9.649883	Q6.612333	24.60149
#3	9.774558	33.47873	19.42113	27.12294	7.877377	Q4.364829	27.23902
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC FAIL	QC PASS
VALUE	10.00000	30.00000	20.00000	30.00000	10.00000	10.00000	30.00000
RANGE	3.000000	9.000000	6.000000	9.000000	3.000000	3.000000	9.000000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.144870	7.584870	8.051169	7.261411	4.643542	48.66658	47.92236
SDEV	1.355150	.542990	2.403369	.632763	1.486431	1.57363	1.25632
%RSD	18.96676	7.158854	29.85118	8.714055	32.01070	3.233493	2.621568
#1	8.326610	7.340484	5.571440	6.752788	4.977704	49.08315	48.71460
#2	7.442286	8.207107	10.37010	7.969998	5.934449	46.92657	48.57867
#3	Q5.665715	7.207019	8.211968	7.061447	3.018474	49.99001	46.47381
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	10.00000					50.00000	50.00000
RANGE	3.000000					15.00000	15.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	49.61429	41.96249	175941.8
SDEV	.17549	.35306	563.5
%RSD	.3537135	.8413688	.3202622
#1	49.54704	41.71876	176559.0
#2	49.48238	41.80134	175454.8
#3	49.81347	42.36737	175811.8
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	50.00000	50.00000	
RANGE	15.00000	15.00000	

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METHOD: P4S12014 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 08/11/14 22:04:41
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	Q88.59652	49412.89	995.0296	929.6050	48182.59	915.6547	905.3263
SDEV	.76667	44.96	7.3506	2.3794	262.00	4.1622	6.7317
%RSD	.8653542	.0909791	.7387282	.2559570	.5437744	.4545621	.7435711
#1	Q89.26170	49463.41	1002.889	926.9187	47886.36	910.8948	900.1997
#2	Q88.76983	49397.93	993.8744	931.4474	48383.92	918.6102	912.9497
#3	Q87.75803	49377.32	988.3250	930.4490	48277.48	917.4592	902.8294
ERRORS	QC FAIL	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	983.7549	Q877.4674	23931.62	Q40826.04	Q44521.53	972.4368	Q40516.77
SDEV	9.2084	3.1091	123.06	376.34	216.65	8.1130	273.59
%RSD	.9360412	.3543226	.5142311	.9218168	.4866095	.8342950	.6752448
#1	973.8403	Q879.8773	23802.53	Q41254.53	Q44323.74	966.7899	Q40805.02
#2	992.0392	Q878.5669	24047.61	Q40549.08	Q44753.07	981.7337	Q40260.69
#3	985.3853	Q873.9579	23944.73	Q40674.52	Q44487.77	968.7869	Q40484.59
ERRORS	QC PASS	QC FAIL	QC PASS	QC FAIL	QC FAIL	QC PASS	QC FAIL
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	946.2706	975.3527	966.7070	923.9864	911.1359	Q790.2190	917.0577
SDEV	5.4517	6.3625	10.2861	7.9311	6.3215	6.9106	5.1750
%RSD	.5761214	.6523315	1.064039	.8583603	.6938052	.8745123	.5643013
#1	940.8072	968.4847	955.0213	917.4698	906.5401	Q790.2058	912.8055
#2	951.7105	981.0461	974.3904	932.8173	908.5226	Q783.3151	922.8196
#3	946.2941	976.5272	970.7093	921.6721	918.3451	Q797.1362	915.5480
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC FAIL	QC PASS
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	Q826.8934	918.6215	907.3990	808.3212	781.1813	954.5041	948.5457
SDEV	4.0423	2.4399	10.4809	8.1894	9.9560	2.3093	6.7870
%RSD	.4888549	.2656058	1.155048	1.013141	1.274485	.2419343	.7155119
#1	Q829.3853	921.3504	899.1462	817.3540	776.6519	952.6847	941.0800
#2	Q822.2294	917.8638	903.8593	801.3813	774.2953	957.1020	954.3426
#3	Q829.0654	916.6504	919.1914	806.2284	792.5968	953.7257	950.2146
ERRORS	QC FAIL	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1007.683	Q879.4010	175457.5
SDEV	4.964	.9820	911.7
%RSD	.4925775	.1116640	.5196285
#1	1002.959	Q879.2107	174667.4
#2	1007.235	Q878.5281	176455.1
#3	1012.856	Q880.4642	175249.9
ERRORS	QC PASS	QC FAIL	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: P4S12014 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 08/11/14 22:12:00
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.675107	-192.929	.0222670	-.648682	-85.9708	-3.39778	Q-20.0080
SDEV	.264373	1.226	.0668127	.405689	31.5333	.05643	.3532
%RSD	39.16016	.6353306	300.0522	62.54052	36.67913	1.660760	1.765184
#1	-.791590	-192.089	-.022064	-.220325	-119.618	-3.40343	Q-20.0551
#2	-.861237	-192.364	-.010248	-.698647	-57.0951	-3.45117	Q-20.3352
#3	-.372495	-194.336	.0991135	-1.02707	-81.1993	-3.33874	Q-19.6336
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC FAIL
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.742758	Q-8.92303	11.77291	18.13312	12.15285	.0926473	-149.619
SDEV	1.094259	.78421	13.09699	9.47868	3.99099	.1017929	88.907
%RSD	147.3237	8.788633	111.2468	52.27271	32.83991	109.8713	59.42208
#1	-1.97513	Q-9.70297	2.258053	28.29188	8.694034	.2072372	-48.9760
#2	.1149799	Q-8.13461	26.71031	9.525979	11.24496	.0580162	-217.480
#3	-.368124	Q-8.93150	6.350373	16.58152	16.51957	.0126885	-182.401
ERRORS	QC PASS	QC FAIL	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1760747	2.476971	1.103333	.1583446	-2.07069	.6422490	-3.05276
SDEV	.3396104	4.453348	.618270	.2094371	.50916	1.828515	1.78788
%RSD	192.8786	179.7900	56.03655	132.2667	24.58890	284.7050	58.56607
#1	.0853442	7.135911	1.817249	.1698349	-1.52584	2.200746	-5.11157
#2	-.108956	2.032445	.7455284	.3618000	-2.15181	-1.37061	-1.89111
#3	.5518355	-1.73744	.7472221	-.056601	-2.53443	1.096606	-2.15560
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.874254	-3.15800	-1.52793	6.335791	-2.20032	3.199614	3.560763
SDEV	.998437	2.87028	1.21912	3.444480	1.16443	2.463914	1.586308
%RSD	53.27115	90.88905	79.78864	54.36543	52.92077	77.00660	44.54967
#1	1.033314	-.484177	-2.04597	9.858989	-1.62270	6.024183	5.340497
#2	2.977725	-6.19093	-.135346	2.975834	-3.54063	1.491988	3.046108
#3	1.611722	-2.79889	-2.40247	6.172549	-1.43763	2.082670	2.295685
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	10.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.0366877	2.152163	177098.7
SDEV	.1507736	.570402	1470.8
%RSD	410.9649	26.50367	.8305144
#1	-.127500	2.405896	176269.1
#2	.1689252	2.551673	178796.9
#3	.0686384	1.498919	176230.1
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	40.00000	200.0000	

METHOD: P4S12014 SAMPLE NAME: 1408003-15 OPERATOR:
RUN TIME: 08/11/14 22:19:19
COMMENT: SDG:1408003 CLIENTID:GW-40I 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.629648	3020.941	312.6859	1.395554	28197.35	-3.53854	-16.8563
SDEV	.157316	26.925	2.4299	.344150	134.35	.18152	.7225
%RSD	24.98473	.8912703	.7771056	24.66050	.4764780	5.129725	4.286187
#1	-.617958	3033.905	311.3669	1.036355	28103.61	-3.33050	-16.0269
#2	-.478503	2989.987	311.2008	1.722367	28137.16	-3.66469	-17.3490
#3	-.792483	3038.932	315.4901	1.427939	28351.27	-3.62043	-17.1929
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.800868	-3.92252	3558.845	2346.923	10345.39	192.7584	184742.6
SDEV	.559386	.38658	9.046	13.630	54.84	.2823	844.8
%RSD	7.170813	9.855372	.2541974	.5807663	.5300805	.1464740	.4572878
#1	8.407037	-4.32114	3555.207	2331.499	10303.00	192.6149	184603.1
#2	7.690996	-3.89722	3552.184	2351.922	10325.85	192.5767	183976.2
#3	7.304570	-3.54922	3569.144	2357.348	10407.33	193.0837	185648.4
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.311569	.2584118	7.817337	12.94256	1.070708	-.224866	6.924916
SDEV	.845950	3.288080	.712863	.07075	.892950	1.728541	1.511470
%RSD	13.40316	1272.419	9.119006	.5466325	83.39813	768.6997	21.82654
#1	5.421396	-3.23993	7.487249	12.92390	.4136589	-1.62476	5.179888
#2	6.408336	.7298112	8.635417	13.02077	.7110640	-.757018	7.770977
#3	7.104974	3.285350	7.329346	12.88301	2.087400	1.707183	7.823883
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.755390	2.259669	.4770315	1.832593	-1.25212	2.782533	5.311493
SDEV	1.914551	4.225174	2.402805	.448562	2.50458	1.707756	.656950
%RSD	50.98140	186.9820	503.6994	24.47693	200.0265	61.37415	12.36847
#1	2.085838	-1.74518	1.491370	1.344021	-3.10700	.8114169	4.945394
#2	3.335196	6.675181	-2.26661	2.225812	-2.24627	3.817656	6.069923
#3	5.845137	1.849001	2.206335	1.927947	1.596898	3.718525	4.919162
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	147.7998	192.1315	173212.7
SDEV	.5729	.6280	2479.3
%RSD	.3876235	.3268732	1.431367
#1	147.9161	192.6542	170353.4
#2	147.1777	192.3054	174519.2
#3	148.3057	191.4348	174765.5
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408003-17 OPERATOR:
RUN TIME: 08/11/14 22:26:31
COMMENT: SDG:1408003 CLIENTID:GW-49I 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.02441	450.1770	256.9736	.5503176	20324.39	-3.63909	-20.3215
SDEV	.79397	5.4037	4.0974	.6401303	262.93	.12849	.4271
%RSD	77.50508	1.200343	1.594490	116.3201	1.293680	3.530751	2.101508
#1	-.791663	454.7679	261.6248	.0356305	20577.82	-3.52355	-20.0219
#2	-1.90875	444.2220	253.8970	.3482162	20052.88	-3.77746	-20.8105
#3	-.372828	451.5411	255.3991	1.267106	20342.47	-3.61625	-20.1320
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.753938	-7.12109	705.8121	1657.500	6908.523	50.30878	195159.7
SDEV	1.388237	.52831	11.9079	15.599	86.056	.57290	1563.2
%RSD	79.14973	7.418945	1.687118	.9411380	1.245648	1.138769	.8009707
#1	.2101383	-7.36187	708.0222	1664.957	6985.038	50.61193	196710.6
#2	2.899621	-6.51528	692.9540	1639.572	6815.359	49.64800	193584.6
#3	2.152054	-7.48612	716.4601	1667.971	6925.170	50.66640	195184.0
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.652198	-1.86017	2.366148	4.609713	-.388262	-.644102	1.036422
SDEV	.522219	2.67358	.395748	.275221	.386527	1.760874	.910978
%RSD	31.60752	143.7276	16.72540	5.970466	99.55312	273.3843	87.89644
#1	1.070316	-4.94658	2.266228	4.921750	-.364721	1.038010	.0526601
#2	1.806128	-.377246	2.029937	4.505863	-.786022	-2.47438	1.850856
#3	2.080151	-.256699	2.802280	4.401526	-.014044	-.495940	1.205750
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.177288	.9582703	-1.06060	-.775275	-.578684	2.323179	9.359459
SDEV	.207782	2.407595	.77972	3.643808	1.644254	1.241321	.145167
%RSD	6.539607	251.2439	73.51684	470.0021	284.1368	53.43200	1.551016
#1	2.974985	-.417083	-.338658	.5167419	1.298183	1.740697	9.526913
#2	3.166734	-.446377	-.955668	-4.88904	-1.26892	1.480218	9.269195
#3	3.390147	3.738271	-1.88747	2.046476	-1.76531	3.748622	9.282269
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	22.46839	190.9091	172987.7
SDEV	.19879	.8873	890.5
%RSD	.8847761	.4647994	.5147664
#1	22.25045	191.8065	171975.7
#2	22.51495	190.0321	173651.5
#3	22.63977	190.8887	173335.8
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408004-07 OPERATOR:
RUN TIME: 08/11/14 22:33:44
COMMENT: SDG:1408004 CLIENTID:MW-13 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.20026	112.1928	736.5576	2.104023	123621.1	-3.91522	-21.5195
SDEV	.40463	6.0484	4.9834	.609106	1013.6	.28298	1.3306
%RSD	33.71218	5.391095	.6765858	28.94957	.8199251	7.227633	6.183365
#1	-1.63085	105.4855	731.5076	2.302606	123408.7	-3.94248	-21.2948
#2	-.827884	113.8607	736.6934	1.420409	124724.0	-3.61960	-20.3155
#3	-1.14205	117.2323	741.4717	2.589055	122730.4	-4.18358	-22.9482
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3061714	-7.54050	-3.46458	2604.507	67324.11	12.73357	131280.1
SDEV	.9901368	.25063	10.99701	28.056	561.65	.12833	843.5
%RSD	323.3930	3.323776	317.4124	1.077206	.8342435	1.007770	.6425439
#1	-.357843	-7.80604	-16.1461	2574.772	67060.73	12.69774	130312.5
#2	1.444209	-7.30808	3.440918	2608.239	67969.05	12.87600	131667.3
#3	-.167851	-7.50737	2.311418	2630.510	66942.55	12.62697	131860.5
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.510760	-.891425	10.38063	4.721379	.5927274	-.847911	2.865194
SDEV	.562915	3.879686	.16530	.296234	1.074400	1.584059	1.856616
%RSD	37.26040	435.2231	1.592412	6.274311	181.2638	186.8191	64.79896
#1	1.104553	-2.00759	10.55518	4.457543	-.409730	-2.37406	.8002078
#2	2.153318	3.423997	10.36026	4.664758	.4609910	-.957982	4.396583
#3	1.274409	-4.09068	10.22646	5.041838	1.726921	.7883134	3.398790
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.974489	-.054486	.9157698	-4.52203	.9863226	-.377164	-.389773
SDEV	1.152085	3.193499	.9535486	.96002	2.782243	2.196956	.264642
%RSD	38.73220	5861.141	104.1254	21.22982	282.0824	582.4932	67.89649
#1	3.987648	-3.74078	1.253221	-4.10996	-1.50749	-1.16683	-.329323
#2	3.214522	1.705915	-.160618	-3.83683	.4792148	2.105474	-.160586
#3	1.721296	1.871410	1.654706	-5.61929	3.987240	-2.07014	-.679411
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	22.23881	13.04301	171135.9
SDEV	.25762	.87528	1260.6
%RSD	1.158444	6.710718	.7365847
#1	22.28004	12.96309	171833.6
#2	22.47334	13.95551	169680.7
#3	21.96306	12.21043	171893.3
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 4080806-DUP1 OPERATOR:
RUN TIME: 08/11/14 22:40:56
COMMENT: SDG:1408004 CLIENTID:MW-13D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.22361	131.7103	758.2540	2.641981	124135.3	-4.39151	-23.5101
SDEV	.31478	5.2611	4.9692	.733928	610.6	.08197	.3486
%RSD	25.72561	3.994435	.6553472	27.77945	.4918453	1.866564	1.482781
#1	-1.24697	125.6392	753.9822	2.982892	123491.6	-4.30451	-23.1429
#2	-.897801	134.9343	757.0723	1.799600	124208.2	-4.40273	-23.8366
#3	-1.52606	134.5573	763.7076	3.143452	124706.2	-4.46730	-23.5508
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.255109	-7.49046	-35.7019	2752.255	67534.84	12.19714	137305.3
SDEV	1.414194	1.03341	16.4688	29.436	568.44	.10130	1694.9
%RSD	554.3481	13.79640	46.12862	1.069509	.8417050	.8305335	1.234410
#1	-.165589	-7.30759	-40.0896	2730.959	67040.53	12.08021	135843.8
#2	1.112198	-6.56070	-17.4836	2739.962	67408.01	12.25278	136909.0
#3	-1.71194	-8.60311	-49.5325	2785.845	68155.99	12.25843	139163.3
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.8785770	-1.92088	10.84257	4.331119	.8093093	.6242421	2.359589
SDEV	.7777754	1.47180	.58313	.308286	1.013737	1.461026	1.875046
%RSD	88.52673	76.62132	5.378177	7.117934	125.2595	234.0479	79.46496
#1	.7982138	-2.28064	11.36015	4.364627	-.159567	-.555616	.3020461
#2	1.693414	-3.17945	10.95678	4.621283	1.862624	.1698780	3.972044
#3	.1441032	-.302551	10.21078	4.007448	.7248706	2.258464	2.804676
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.039711	1.347455	.5405601	-6.10698	3.984738	.3840083	.7425904
SDEV	2.437048	3.013635	2.367976	4.79936	.628528	.8827439	.6284957
%RSD	234.3966	223.6538	438.0597	78.58814	15.77338	229.8762	84.63559
#1	3.836870	.0962115	-.287344	-8.83422	3.577411	1.267502	1.192696
#2	-.092165	-.839002	3.211333	-8.92134	4.708604	-.497984	1.010549
#3	-.625571	4.785156	-1.30231	-.565382	3.668199	.3825078	.0245258
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	21.53283	11.88037	170025.3
SDEV	.34683	1.07253	1663.4
%RSD	1.610720	9.027722	.9783300
#1	21.44198	11.60563	171219.8
#2	21.91605	13.06354	170730.7
#3	21.24047	10.97194	168125.5
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 4080806-MS1 OPERATOR:
RUN TIME: 08/11/14 22:48:09
COMMENT: SDG:1408004 CLIENTID:MW-13S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	486.1396	2941.414	1347.755	514.2156	139758.8	487.9826	480.9647
SDEV	2.0467	35.301	17.755	5.0122	1642.0	6.5437	4.9594
%RSD	.4210126	1.200138	1.317366	.9747319	1.174866	1.340974	1.031129
#1	483.7784	2900.959	1327.254	508.7063	137893.3	480.4679	475.5631
#2	487.2331	2965.963	1357.933	518.5059	140984.8	492.4229	485.3125
#3	487.4073	2957.321	1358.078	515.4346	140398.4	491.0571	482.0186
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	535.3176	488.4248	4861.426	13064.26	75581.90	546.6445	153866.2
SDEV	7.2299	2.3512	71.628	136.74	911.68	6.6465	1896.4
%RSD	1.350580	.4813940	1.473398	1.046677	1.206210	1.215873	1.232497
#1	527.0574	485.7570	4779.932	12907.19	74530.28	539.2073	151693.5
#2	540.4955	489.3224	4914.405	13128.80	76149.30	552.0037	154715.6
#3	538.3998	490.1951	4889.940	13156.78	76066.12	548.7226	155189.4
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	509.2298	1062.696	545.2555	976.5001	982.2794	849.6310	1008.211
SDEV	7.9084	19.159	5.7520	10.3867	6.7712	9.4568	14.819
%RSD	1.553005	1.802842	1.054909	1.063669	.6893387	1.113054	1.469844
#1	500.0980	1040.844	538.7427	965.2351	974.4737	840.3077	991.1025
#2	513.7794	1076.611	547.3843	985.6975	985.7897	849.3693	1017.035
#3	513.8120	1070.632	549.6397	978.5679	986.5746	859.2160	1016.497
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	894.2675	987.3640	979.7407	862.3312	843.2903	1036.483	1063.743
SDEV	14.4377	9.6250	6.9194	5.2788	13.3234	12.384	20.611
%RSD	1.614467	.9748129	.7062474	.6121528	1.579935	1.194778	1.937569
#1	877.5996	978.0783	972.6741	857.3126	831.8180	1022.384	1040.533
#2	902.3134	997.2957	980.0452	867.8365	840.1494	1041.466	1070.788
#3	902.8894	986.7178	986.5029	861.8445	857.9036	1045.598	1079.907
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1130.096	986.4102	168144.5
SDEV	9.629	16.1188	1157.4
%RSD	.8520794	1.634085	.6883409
#1	1119.098	968.0297	169475.9
#2	1137.013	993.0639	167378.0
#3	1134.177	998.1368	167579.6
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 4080806-MSD1 OPERATOR:
RUN TIME: 08/11/14 22:55:22
COMMENT: SDG:1408004 CLIENTID:MW-13SD 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	472.0391	2884.387	1318.330	495.0532	132297.4	463.2180	455.0698
SDEV	5.8763	30.261	20.541	6.3095	1774.9	9.1726	7.7461
%RSD	1.244875	1.049143	1.558099	1.274518	1.341601	1.980182	1.702182
#1	466.3965	2851.308	1301.434	488.9385	130899.6	457.1454	450.3878
#2	471.5965	2891.174	1312.362	494.6799	131698.2	458.7391	450.8106
#3	478.1241	2910.678	1341.194	501.5410	134294.3	473.7695	464.0109
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	509.4247	472.1454	4645.624	13092.33	71826.54	521.6956	150894.7
SDEV	2.7558	5.0976	48.848	201.19	1119.95	5.2488	1828.9
%RSD	.5409547	1.079664	1.051492	1.536727	1.559241	1.006113	1.212023
#1	508.6155	466.4719	4617.901	12893.84	70989.79	516.7552	149195.3
#2	512.4945	473.6240	4616.944	13087.01	71390.99	521.1252	150658.6
#3	507.1642	476.3402	4702.026	13296.12	73098.83	527.2063	152830.1
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	485.3098	1031.994	525.9843	922.2829	929.8616	816.6726	987.2873
SDEV	6.9420	15.422	7.0676	18.0367	15.4045	20.4563	14.5892
%RSD	1.430435	1.494341	1.343698	1.955660	1.656645	2.504837	1.477703
#1	481.3003	1017.489	518.1033	912.3224	919.8438	794.2804	977.3889
#2	481.3033	1030.300	528.0896	911.4229	922.1414	821.3571	980.4315
#3	493.3258	1048.192	531.7601	943.1034	947.5997	834.3804	1004.042
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	861.3895	950.1364	919.7393	836.3663	806.8405	999.1695	1028.024
SDEV	13.2982	23.8722	12.2467	23.7234	20.2033	20.6847	19.774
%RSD	1.543809	2.512502	1.331542	2.836489	2.504001	2.070188	1.923540
#1	856.0078	942.1121	908.7261	815.6130	783.6300	986.3125	1013.225
#2	851.6255	931.3102	917.5638	831.2582	816.4138	988.1659	1020.364
#3	876.5350	976.9869	932.9280	862.2277	820.4776	1023.030	1050.482
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1102.034	960.5508	166078.7
SDEV	8.440	15.7054	856.3
%RSD	.7658836	1.635037	.5155816
#1	1092.657	947.7930	166106.3
#2	1104.425	955.7679	166920.9
#3	1109.022	978.0916	165209.0
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: SDI1408004-07 OPERATOR:
RUN TIME: 08/11/14 23:02:35
COMMENT: SDG:1408004 CLIENTID:MW-13L 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.11750	-75.1039	149.8481	3.297100	24196.34	-4.72833	-24.3053
SDEV	.42225	3.4568	.7202	.385482	48.88	.07015	.2526
%RSD	37.78559	4.602744	.4806151	11.69155	.2019983	1.483518	1.039480
#1	-.791779	-78.6728	149.8343	2.938716	24221.53	-4.70150	-24.2079
#2	-.966148	-74.8677	150.5752	3.704912	24140.01	-4.80793	-24.5922
#3	-1.59457	-71.7712	149.1350	3.247672	24227.49	-4.67556	-24.1159
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.441862	-7.06301	-24.5092	552.7920	13178.22	2.680272	26921.10
SDEV	.148411	.68231	12.1491	2.4160	61.98	.012769	101.04
%RSD	33.58756	9.660268	49.56964	.4370598	.4703324	.4764048	.3753372
#1	-.356133	-7.58564	-35.9716	555.4300	13203.75	2.686919	26948.99
#2	-.613232	-7.31226	-25.7823	552.2592	13107.55	2.665551	26809.03
#3	-.356221	-6.29112	-11.7736	550.6869	13223.35	2.688347	27005.27
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6289062	.8736593	2.315100	1.129278	-1.15126	.4227667	.7791302
SDEV	.3406320	3.844874	.590399	.147688	.28164	1.452170	3.073945
%RSD	54.16260	440.0885	25.50209	13.07806	24.46394	343.4920	394.5354
#1	.5253330	5.183643	2.983032	1.213831	-.830905	.6512344	3.318684
#2	.3520827	-.358788	1.862934	.9587446	-1.26291	-1.13009	-2.63823
#3	1.009303	-2.20388	2.099334	1.215258	-1.35995	1.747160	1.656942
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.213695	1.695750	-2.57270	-.565921	.9162986	1.499925	2.074231
SDEV	1.032199	1.169767	.16426	2.489730	3.364116	.481932	1.263039
%RSD	46.62790	68.98229	6.384819	439.9433	367.1420	32.13045	60.89193
#1	1.825305	3.010685	-2.74890	-1.97878	1.964199	2.000837	3.100065
#2	3.383748	1.305796	-2.54542	2.308833	-2.84705	1.459405	2.459099
#3	1.432031	.7707683	-2.42379	-2.02782	3.631748	1.039531	.6635296
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	4.508966	5.261605	170201.4
SDEV	.074981	.661130	548.3
%RSD	1.662930	12.56518	.3221381
#1	4.469156	5.832266	169915.2
#2	4.462287	4.537125	170833.6
#3	4.595456	5.415425	169855.5
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 4080806-PS1 OPERATOR:
RUN TIME: 08/11/14 23:09:48
COMMENT: SDG:1408004 CLIENTID:MW-13A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	84.89755	4295.607	4763.461	96.16820	118449.0	81.93979	328.6911
SDEV	.07249	22.004	32.707	.38395	307.0	.38228	.3434
%RSD	.0853853	.5122380	.6866161	.3992446	.2591767	.4665318	.1044653
#1	84.92103	4284.936	4800.962	96.19622	118650.5	81.99856	328.9952
#2	84.95539	4280.974	4740.840	95.77101	118600.8	82.28928	328.7595
#3	84.81623	4320.912	4748.582	96.53737	118095.7	81.53153	328.3187
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	186.1567	81.47996	3646.115	2895.442	65356.99	196.4651	142398.1
SDEV	1.4788	.36190	9.817	15.428	86.41	.4437	989.9
%RSD	.7944034	.4441593	.2692461	.5328249	.1322081	.2258204	.6951728
#1	187.2637	81.10578	3653.193	2886.068	65363.88	196.3841	141861.8
#2	186.7291	81.50591	3650.245	2887.010	65439.75	196.9437	141792.0
#3	184.4772	81.82819	3634.908	2913.248	65267.35	196.0675	143540.4
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	179.2524	557.5373	382.7744	509.9646	171.6616	155.4339	548.6680
SDEV	.9139	5.4174	1.8619	1.1715	2.4930	1.8865	.3618
%RSD	.5098484	.9716669	.4864219	.2297217	1.452285	1.213692	.0659494
#1	179.8154	551.5132	381.4929	510.5977	169.4029	154.6714	548.2731
#2	179.7439	562.0091	384.9102	510.6834	174.3365	154.0481	548.9836
#3	178.1979	559.0896	381.9203	508.6128	171.2453	157.5823	548.7471
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	163.6663	175.1782	169.9057	151.5382	157.3788	902.8816	912.6462
SDEV	1.6320	3.3975	3.4437	5.0183	3.3635	5.0464	2.4264
%RSD	.9971606	1.939455	2.026830	3.311597	2.137187	.5589225	.2658661
#1	165.3795	176.2034	166.0076	145.8060	159.0973	897.8745	914.4147
#2	163.4896	177.9451	172.5348	155.1393	153.5033	907.9664	913.6439
#3	162.1298	171.3862	171.1748	153.6692	159.5359	902.8039	909.8799
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	995.3474	901.1489	162732.5
SDEV	2.0684	2.1868	475.1
%RSD	.2078098	.2426732	.2919403
#1	997.3883	898.6456	162707.9
#2	995.4013	902.1134	163219.5
#3	993.2525	902.6876	162270.2
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408004-01 OPERATOR:
RUN TIME: 08/11/14 23:17:01
COMMENT: SDG:1408004 CLIENTID:MW-1A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-2.13043	3114.372	202.7698	6.678130	26059.16	-5.27493	-26.1516
SDEV	.52518	42.962	3.6089	.311011	275.55	.22212	1.2772
%RSD	24.65137	1.379481	1.779812	4.657156	1.057411	4.210796	4.883862
#1	-2.39804	3114.709	205.7350	6.499142	26170.71	-5.07096	-25.2173
#2	-2.46790	3157.164	203.8229	6.497993	26261.44	-5.24225	-25.6306
#3	-1.52535	3071.242	198.7515	7.037253	25745.32	-5.51157	-27.6070
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.361794	-.686216	1878.978	1733.634	7171.466	53.54223	72768.74
SDEV	.416321	.114127	41.594	14.691	134.317	.92288	798.69
%RSD	5.655159	16.63141	2.213631	.8474389	1.872939	1.723655	1.097570
#1	7.203245	-.661423	1915.344	1728.759	7239.874	53.94710	72512.09
#2	7.834096	-.810702	1887.963	1750.143	7257.808	54.19347	73664.20
#3	7.048042	-.586523	1833.626	1721.999	7016.716	52.48611	72129.93
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	5.658249	-3.95965	5.624102	24.93764	2.218825	-.592354	4.694171
SDEV	.992154	1.66345	.200505	.50113	.928873	.890110	.430127
%RSD	17.53464	42.01003	3.565100	2.009539	41.86327	150.2666	9.163004
#1	6.160971	-2.05959	5.400956	25.06362	3.286454	-.876019	4.904549
#2	6.298417	-4.66599	5.682226	25.36375	1.595949	-1.30606	4.199347
#3	4.515361	-5.15337	5.789123	24.38553	1.774073	.4050174	4.978616
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.213334	7.128525	-.232437	-6.46963	2.341806	3.420039	4.063892
SDEV	1.656162	1.987972	2.183168	1.50149	1.095645	.730897	.970233
%RSD	74.82659	27.88756	939.2515	23.20834	46.78634	21.37102	23.87447
#1	3.630432	5.442000	2.210204	-5.37476	1.369907	2.665405	5.103220
#2	.3926932	6.623174	-.913988	-8.18130	2.126330	3.470085	3.906445
#3	2.616875	9.320400	-1.99353	-5.85284	3.529181	4.124628	3.182013
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	132.7980	136.0267	161819.6
SDEV	.7111	3.0391	1792.6
%RSD	.5354658	2.234202	1.107756
#1	133.1323	138.2622	161779.7
#2	133.2805	137.2516	160047.2
#3	131.9814	132.5663	163631.7
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408004-02 OPERATOR:
RUN TIME: 08/11/14 23:24:14
COMMENT: SDG:1408004 CLIENTID:MW-1A-D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.87584	936.8635	120.1387	6.142146	16327.65	-4.90677	-25.1120
SDEV	.27923	11.0763	.8468	.881652	97.88	.11792	.6766
%RSD	14.88555	1.182271	.7048892	14.35414	.5995042	2.403267	2.694430
#1	-1.59661	949.1144	119.6846	7.160065	16428.53	-4.96881	-24.3524
#2	-1.87585	927.5569	121.1158	5.619390	16321.37	-4.77078	-25.6503
#3	-2.15506	933.9193	119.6158	5.646982	16233.06	-4.98072	-25.3333
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.696558	-4.44226	927.5765	3567.677	4411.290	55.92050	298376.1
SDEV	.301385	.25878	12.3700	22.537	30.826	.50033	1384.2
%RSD	8.153138	5.825401	1.333584	.6317070	.6987870	.8947142	.4639048
#1	4.032384	-4.29270	940.3960	3589.216	4444.289	56.37463	299528.1
#2	3.449595	-4.74107	915.7112	3569.554	4406.345	56.00273	298759.5
#3	3.607696	-4.29301	926.6222	3544.259	4383.235	55.38415	296840.6
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.465979	-2.32580	14.37709	5.363883	1.414188	3.649360	5.067445
SDEV	.322941	1.36635	.32506	.156788	1.380012	1.957330	1.623069
%RSD	13.09586	58.74762	2.260988	2.923032	97.58337	53.63487	32.02933
#1	2.451538	-3.80498	14.67585	5.228754	.9855486	2.882356	4.007516
#2	2.795899	-1.11088	14.42450	5.535791	2.957656	2.191689	4.258841
#3	2.150501	-2.06153	14.03092	5.327103	.2993596	5.874035	6.935978
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.863921	6.414437	-1.08227	-.870365	5.905760	2.940278	49.94250
SDEV	2.085017	4.226876	.29511	2.778356	3.278907	.936848	.98020
%RSD	111.8619	65.89629	27.26759	319.2172	55.52049	31.86255	1.962667
#1	.5907540	5.770163	-1.40326	2.175210	3.235324	3.329163	49.03095
#2	.7308781	10.92646	-1.02086	-3.26643	4.916583	1.871617	50.97931
#3	4.270132	2.546685	-.822703	-1.51987	9.565373	3.620056	49.81724
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	55.35842	118.0220	160410.4
SDEV	.18090	1.0348	718.6
%RSD	.3267781	.8768210	.4479572
#1	55.35130	119.1229	159746.7
#2	55.18120	117.0692	161173.5
#3	55.54279	117.8739	160311.1
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

ANALYSIS REPORT QC STANDARD 08/11/14 11:38:37 PM PAGE 1

METHOD: P4S12014 SAMPLE NAME: CCV1 OPERATOR:
RUN TIME: 08/11/14 23:31:27
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	Q85.76032	55073.73	1029.973	924.9052	46012.88	Q878.2784	Q870.4037
SDEV	.66608	448.79	5.800	6.3541	176.57	1.9416	.6831
%RSD	.7766737	.8148972	.5631011	.6870019	.3837324	.2210712	.0784837
#1	Q85.00427	54580.89	1036.640	918.2099	45812.71	Q879.6979	Q870.7879
#2	Q86.01613	55181.41	1026.093	925.6538	46079.44	Q879.0717	Q870.8084
#3	Q86.26058	Q55458.89	1027.186	930.8518	46146.49	Q876.0658	Q869.6150
ERRORS	QC FAIL	QC PASS	QC PASS	QC PASS	QC PASS	QC FAIL	QC FAIL
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	945.7748	Q889.1538	23180.34	48589.11	Q44320.59	940.7502	47963.64
SDEV	2.8895	3.1442	55.47	421.22	110.39	1.4641	793.84
%RSD	.3055164	.3536225	.2393071	.8669054	.2490683	.1556331	1.655079
#1	948.8141	Q890.8296	23216.67	48115.27	Q44194.68	942.4077	47293.35
#2	943.0630	Q891.1052	23207.86	48730.95	Q44366.38	940.2099	47757.31
#3	945.4474	Q885.5266	23116.49	48921.10	Q44400.72	939.6331	48840.28
ERRORS	QC PASS	QC FAIL	QC PASS	QC PASS	QC FAIL	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	914.5347	954.4648	947.1475	Q852.6810	Q878.9099	Q876.1848	969.0257
SDEV	2.9353	6.0660	1.7724	1.5107	9.4682	5.4675	3.1984
%RSD	.3209661	.6355433	.1871271	.1771669	1.077262	.6240089	.3300601
#1	914.2347	947.7434	945.1218	Q853.8458	Q884.6391	Q870.0303	965.4097
#2	917.6085	956.1187	948.4127	Q853.2231	Q884.1094	Q880.4806	971.4840
#3	911.7609	959.5325	947.9079	Q850.9741	Q867.9813	Q878.0433	970.1835
ERRORS	QC PASS	QC PASS	QC PASS	QC FAIL	QC FAIL	QC FAIL	QC PASS
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	Q866.1024	875.2092	880.7884	905.4796	861.5591	919.3734	921.6967
SDEV	9.6921	3.6879	12.6459	8.5740	5.8074	3.2358	5.7742
%RSD	1.119052	.4213777	1.435747	.9468963	.6740570	.3519596	.6264804
#1	Q855.1124	878.9294	887.5819	896.8679	856.6315	918.2804	920.7344
#2	Q873.4285	875.1437	888.5857	905.5557	867.9619	923.0142	927.8915
#3	Q869.7662	871.5544	866.1977	914.0153	860.0841	916.8257	916.4639
ERRORS	QC FAIL	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1007.845	971.6368	157801.9
SDEV	4.937	8.8449	1295.3
%RSD	.4898341	.9103126	.8208230
#1	1002.273	961.4245	159141.2
#2	1009.588	976.8622	157708.9
#3	1011.674	976.6238	156555.7
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: P4S12014 SAMPLE NAME: CCB1 OPERATOR:
RUN TIME: 08/11/14 23:38:46
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.80385	-59.4294	.1492201	Q6.072591	-138.211	-4.48814	Q-22.1610
SDEV	.73540	7.4099	.1817648	2.086542	40.243	.73136	3.6344
%RSD	40.76841	12.46838	121.8098	34.36000	29.11709	16.29546	16.39986
#1	-2.50187	-66.9806	-.055706	Q8.145667	-109.304	-4.83498	Q-24.2424
#2	-1.87364	-59.1381	.2909568	Q6.099266	-121.156	-4.98156	Q-24.2763
#3	-1.03604	-52.1694	.2124094	3.972838	-184.173	-3.64789	Q-17.9645
ERRORS	QC PASS	QC PASS	QC PASS	QC FAIL	QC PASS	QC PASS	QC FAIL
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-2.69650	Q-7.47041	-31.3288	21.32342	4.491774	-.413136	143.0205
SDEV	3.86741	2.83907	79.3729	13.52252	22.60084	.698290	191.7868
%RSD	143.4235	38.00419	253.3546	63.41626	503.1606	169.0216	134.0974
#1	-.192487	Q-5.84398	28.31746	6.565603	19.02131	.0963408	3.069707
#2	-.746266	Q-5.81860	-.887450	24.28492	16.00112	-.126642	64.36046
#3	Q-7.15074	Q-10.7486	Q-121.416	33.11975	-21.5471	-1.20911	361.6314
ERRORS	QC PASS	QC FAIL	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.82698	2.265677	.9923904	-.436874	1.973773	-.634116	-4.66483
SDEV	2.75292	4.216523	1.240150	.215903	2.579563	3.050444	8.03874
%RSD	150.6814	186.1043	124.9659	49.41997	130.6920	481.0546	172.3268
#1	-.313779	7.104672	-.144627	-.293206	-.220497	2.804648	.2624226
#2	-.162585	-.619829	.8069997	-.685155	1.326479	-3.01409	-.315736
#3	-5.00459	.3121887	2.314799	-.332260	Q4.815336	-1.69290	Q-13.9412
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-3.96726	13.71807	-3.88966	5.170988	-3.53239	4.389927	3.390823
SDEV	3.87266	14.35909	3.44853	9.443397	6.93777	2.123612	1.221796
%RSD	97.61542	104.6728	88.65900	182.6227	196.4041	48.37466	36.03244
#1	-.988491	3.835306	-2.24544	1.593815	3.409080	3.789445	4.619643
#2	-2.56828	7.129843	-1.57094	-1.96122	-3.53982	2.631213	2.176173
#3	-8.34501	30.18905	-7.85259	15.88037	-10.4664	6.749123	3.376654
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	10.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	-1.28348	2.990155	154981.4
SDEV	2.46997	3.802500	4491.6
%RSD	192.4438	127.1673	2.898160
#1	.5710438	5.988523	157228.2
#2	-.334218	4.268802	157906.2
#3	-4.08725	-1.28686	149809.7
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	40.00000	200.0000	

METHOD: P4S12014 SAMPLE NAME: 4080805-BLK1 OPERATOR:
RUN TIME: 08/11/14 23:46:04
COMMENT: SDG:1408015 CLIENTID:PBWFB 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.16380	H597.8129	.1279793	.2262834	1709.805	-3.97105	L-21.7496
SDEV	.67082	11.1775	.1375227	.9131485	49.530	.16012	.3656
%RSD	57.64032	1.869737	107.4570	403.5420	2.896847	4.032304	1.680743
#1	-.442424	H608.9352	.2725929	1.269993	1665.047	-3.94189	L-21.7498
#2	-1.28014	H586.5810	-.001140	-.425352	1701.350	-4.14375	L-22.1151
#3	-1.76885	H597.9224	.1124852	-.165791	1763.019	-3.82751	L-21.3840
ERRORS	LC PASS	LC HIGH	LC PASS	LC PASS	LC PASS	LC PASS	LC LOW
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-5.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.259271	L-9.44612	20.92179	24.08327	41.61710	.9097661	-90.2553
SDEV	.751341	.72228	9.19434	10.85494	3.57272	.1908386	126.1193
%RSD	289.7896	7.646325	43.94623	45.07256	8.584733	20.97667	139.7362
#1	-.298430	L-9.42923	16.34356	36.61457	43.94676	.7024615	26.38759
#2	-.990267	L-10.1767	14.91538	18.05136	37.50374	.9487038	-73.0657
#3	.5108835	L-8.73244	31.50643	17.58387	43.40080	1.078133	-224.088
ERRORS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000
LOW	-5.00000	-5.00000	-100.000	-5000.00	-5000.00	-10.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5554892	.2100037	.8335356	1.177088	-.731728	-1.42187	1.979362
SDEV	.9078346	2.575949	.5176650	.254662	.678042	3.16441	1.693254
%RSD	163.4298	1226.621	62.10473	21.63489	92.66308	222.5533	85.54545
#1	.8285548	.7134057	1.418722	1.391527	-.461610	2.213089	.1668557
#2	-.457537	-2.58049	.6465097	1.244123	-.230376	-2.91715	3.520615
#3	1.295450	2.497092	.4353748	.8956140	-1.50320	-3.56154	2.250614
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000
LOW	-40.0000	-10.0000	-20.0000	-20.0000	-3.00000	-5.00000	-10.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.260369	2.761468	-2.47579	-1.69173	-1.28720	1.234908	1.505229
SDEV	1.737862	5.510246	2.15503	7.86662	3.27907	1.589190	.721266
%RSD	137.8852	199.5405	87.04448	465.0035	254.7438	128.6890	47.91733
#1	-.699927	8.535000	-4.95325	4.266407	1.187900	1.970757	1.687134
#2	1.868903	2.190422	-1.43904	1.267139	-5.00623	2.322806	.7104248
#3	2.612130	-2.44102	-1.03507	-10.6088	-.043283	-.588839	2.118128
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	10.00000					100.0000	5.000000
LOW	-10.0000					-100.000	-5.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.6883549	33.95143	173655.2
SDEV	.4023762	.61120	876.2
%RSD	58.45476	1.800212	.5045344
#1	.3074789	34.59052	172646.8
#2	.6483440	33.89119	174088.8
#3	1.109242	33.37259	174230.0
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	40.00000	200.0000	
LOW	-40.0000	-200.000	

METHOD: P4S12014 SAMPLE NAME: 4080805-BS1 OPERATOR:
RUN TIME: 08/11/14 23:53:17
COMMENT: SDG:1408015 CLIENTID:MLCSFB 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	483.5238	2556.172	548.1157	508.5045	11168.08	503.0552	488.6504
SDEV	2.8994	6.993	4.2963	1.5571	96.38	2.2533	1.4159
%RSD	.5996328	.2735911	.7838254	.3062053	.8630113	.4479172	.2897574
#1	481.1275	2559.045	547.5204	506.8506	11056.94	500.4615	487.6111
#2	482.6972	2548.200	544.1481	509.9421	11218.60	504.5301	488.0770
#3	486.7467	2561.272	552.6786	508.7208	11228.70	504.1740	490.2630
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	660.0000	3120.000	660.0000	660.0000	13200.00	660.0000	660.0000
LOW	440.0000	2080.000	440.0000	440.0000	8800.000	440.0000	440.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	535.8720	472.7948	4920.511	9020.814	5122.913	532.5753	L8431.428
SDEV	2.6803	3.5087	42.102	85.953	13.840	2.7169	192.429
%RSD	.5001777	.7421153	.8556417	.9528315	.2701625	.5101374	2.282277
#1	533.1717	470.5593	4879.608	9118.353	5107.739	530.9205	L8620.194
#2	535.9124	470.9864	4918.208	8956.152	5134.843	531.0944	L8438.553
#3	538.5319	476.8388	4963.717	8987.935	5126.157	535.7108	L8235.535
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC LOW
HIGH	660.0000	660.0000	6120.000	13200.00	7200.000	660.0000	13200.00
LOW	440.0000	440.0000	4080.000	8800.000	4800.000	440.0000	8800.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	517.5417	1077.434	529.8868	1011.862	994.8364	L822.8601	980.5954
SDEV	2.6557	11.630	4.5312	6.329	7.1560	2.0461	7.4320
%RSD	.5131397	1.079384	.8551280	.6254575	.7193156	.2486579	.7579101
#1	514.7553	1064.068	524.6576	1005.315	987.0279	L824.2097	979.1337
#2	517.8263	1082.995	532.3479	1012.324	996.3997	L820.5059	974.0029
#3	520.0438	1085.238	532.6550	1017.947	1001.081	L823.8647	988.6497
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS
HIGH	660.0000	1320.000	660.0000	1320.000	1320.000	1320.000	1320.000
LOW	440.0000	880.0000	440.0000	880.0000	880.0000	880.0000	880.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	L870.7131	995.1599	994.6747	838.9871	814.8086	1052.591	1068.275
SDEV	2.6852	6.7560	13.7086	10.1932	4.8689	4.692	11.392
%RSD	.3083928	.6788817	1.378196	1.214938	.5975502	.4457571	1.066401
#1	L867.9969	1000.070	980.5165	850.4543	811.1070	1047.362	1056.688
#2	L873.3663	997.9547	995.6233	835.5505	812.9947	1056.433	1068.674
#3	L870.7762	987.4550	1007.884	830.9563	820.3240	1053.978	1079.462
ERRORS	LC LOW	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	1320.000						
LOW	880.0000						

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1095.590	950.3069	175377.3
SDEV	11.273	1.1443	1366.9
%RSD	1.028984	.1204108	.7794023
#1	1083.141	949.2372	173997.1
#2	1105.111	950.1701	175404.2
#3	1098.516	951.5134	176730.5
ERRORS	NOCHECK	LC PASS	NOCHECK
HIGH		1320.000	
LOW		880.0000	

METHOD: P4S12014 SAMPLE NAME: 1408015-01 OPERATOR:
RUN TIME: 08/12/14 00:00:30
COMMENT: SDG:1408015 CLIENTID:7-28-14 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	146.0870	7131.905	2.714393	2.227023	9164.445	11.41143	1.048786
SDEV	.6018	67.218	.096928	1.065317	14.189	.21065	.418565
%RSD	.4119351	.9424925	3.570908	47.83591	.1548245	1.845956	39.90950
#1	145.5519	7054.858	2.693657	1.396999	9153.706	11.20776	.5811653
#2	145.9706	7162.299	2.629510	1.855782	9159.099	11.39810	1.388403
#3	146.7385	7178.558	2.820011	3.428289	9180.530	11.62843	1.176788
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	221.3387	1217.515	1015.632	4171.497	2687.092	61.29455	H355801.2
SDEV	2.1536	2.466	16.182	117.787	3.753	.31561	6339.6
%RSD	.9729714	.2025679	1.593317	2.823610	.1396840	.5149050	1.781789
#1	223.7594	1216.618	1029.803	4035.498	2684.253	61.65192	H348500.8
#2	220.6214	1220.305	1019.093	4240.861	2691.348	61.17771	H358984.2
#3	219.6354	1215.623	997.9988	4238.132	2685.676	61.05402	H359918.7
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3880.557	1.356880	1.526428	1400.713	86.24979	-.910319	1.924798
SDEV	5.349	5.461976	1.250618	10.873	1.43922	.729784	1.776548
%RSD	.1378459	402.5393	81.93099	.7762130	1.668667	80.16797	92.29793
#1	3877.242	-2.30190	.1334916	1411.757	85.54004	-.233416	3.311762
#2	3886.728	7.635223	1.892986	1400.360	87.90603	-.814101	2.540273
#3	3877.700	-1.26269	2.552807	1390.021	85.30330	-1.68344	-.077643
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.591030	86.92963	85.91029	-3.54566	.4053042	592.0832	5.295964
SDEV	.833834	5.85143	3.22966	.76301	1.343099	3.7282	1.579698
%RSD	32.18155	6.731222	3.759337	21.51948	331.3804	.6296752	29.82834
#1	2.680728	80.33672	88.13770	-4.37455	1.833979	587.8261	4.268050
#2	1.715974	88.94572	87.38689	-2.87261	.2135380	593.6574	7.114908
#3	3.376389	91.50645	82.20628	-3.38981	-.831604	594.7661	4.504935
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	10.95164	1041.361	171249.6
SDEV	.48402	13.991	1575.2
%RSD	4.419642	1.343518	.9198234
#1	11.42079	1025.334	173068.4
#2	10.98014	1047.620	170356.9
#3	10.45400	1051.130	170323.6
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: SDI1408015-01 OPERATOR:
RUN TIME: 08/12/14 00:07:42
COMMENT: SDG:1408015 CLIENTID:7-28-14L 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	28.56801	1315.050	.3676812	1.970771	1737.519	-1.04698	-17.1071
SDEV	.38398	1.472	.0565153	.386013	23.160	.19519	.4974
%RSD	1.344073	.1119577	15.37073	19.58689	1.332922	18.64271	2.907397
#1	28.18404	1315.637	.3662498	2.409947	1750.946	-1.06641	-16.9581
#2	28.95199	1313.375	.4248985	1.685238	1710.776	-1.23172	-17.6620
#3	28.56800	1316.139	.3118951	1.817127	1750.834	-.842802	-16.7013
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	44.09479	237.7242	208.1720	805.8729	553.2266	12.26322	74910.85
SDEV	.56111	.9481	7.7154	1.9340	5.2739	.04855	25.17
%RSD	1.272498	.3988184	3.706270	.2399933	.9533068	.3958809	.0336047
#1	44.72820	237.6576	214.1730	805.2613	558.9002	12.21258	74928.84
#2	43.66005	238.7038	210.8740	808.0388	552.3063	12.30936	74882.09
#3	43.89613	236.8111	199.4690	804.3185	548.4734	12.26770	74921.63
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	772.0550	2.170850	.6915940	279.6833	17.07561	-.159762	-.203141
SDEV	3.2471	2.245640	.2268893	1.2588	.65569	.716332	2.779290
%RSD	.4205823	103.4452	32.80671	.4500904	3.839917	448.3741	1368.156
#1	775.0113	2.095947	.4373310	280.9977	17.50082	.6673396	-.520292
#2	772.5742	-.036402	.8734201	278.4885	17.40552	-.565693	-2.81025
#3	768.5796	4.453004	.7640309	279.5638	16.32049	-.580933	2.721119
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4593375	17.05652	17.08445	2.053445	-1.26478	119.9216	2.045750
SDEV	1.371730	.57186	1.07549	2.522916	2.27017	2.7081	.877226
%RSD	298.6323	3.352727	6.295155	122.8626	179.4921	2.258256	42.88040
#1	1.188951	16.44819	18.02543	-.559556	1.279798	116.8858	3.026126
#2	1.312066	17.58311	17.31583	4.475416	-3.08254	120.7900	1.776177
#3	-1.12300	17.13826	15.91210	2.244474	-1.99159	122.0890	1.334946
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	2.229724	215.8744	171982.1
SDEV	.079177	1.3738	584.2
%RSD	3.550978	.6363846	.3396686
#1	2.295132	217.2904	172062.1
#2	2.252340	215.7857	172522.1
#3	2.141700	214.5471	171362.0
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408015-02 OPERATOR:
RUN TIME: 08/12/14 00:14:55
COMMENT: SDG:1408015 CLIENTID:7-29-14 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	31.10478	1014.767	.1272429	2.759674	1443.179	-1.69872	-19.2517
SDEV	.49898	3.784	.1367580	.809431	35.372	.26506	1.0735
%RSD	1.604200	.3729140	107.4780	29.33067	2.450973	15.60355	5.576247
#1	30.55791	1019.065	-.022035	1.829882	1468.527	-1.42822	-18.0751
#2	31.22113	1013.299	.1572746	3.142151	1402.769	-1.70997	-19.5022
#3	31.53532	1011.937	.2464891	3.306990	1458.240	-1.95798	-20.1779
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	36.77844	193.0566	195.9352	690.1631	458.3585	7.454155	63714.29
SDEV	.68967	1.1465	12.9251	1.9179	3.9754	.219578	240.89
%RSD	1.875215	.5938543	6.596640	.2778850	.8673094	2.945714	.3780732
#1	37.56910	191.8860	210.8541	688.7984	459.3164	7.707069	63755.91
#2	36.30073	193.1065	188.1171	692.3559	461.7675	7.312187	63931.66
#3	36.46548	194.1773	188.8344	689.3351	453.9917	7.343210	63455.31
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	607.2065	.0787629	.8377197	222.3179	15.36750	-.638526	4.358005
SDEV	2.8500	1.941944	.2546693	1.4826	1.60550	2.673455	1.086456
%RSD	.4693601	2465.555	30.40030	.6668707	10.44736	418.6914	24.93013
#1	610.4633	-.305204	.5436565	223.6205	15.22803	-.045205	4.443068
#2	605.1688	2.184009	.9859970	222.6287	17.03819	-3.55880	5.399428
#3	605.9876	-1.64252	.9835057	220.7046	13.83629	1.688425	3.231517
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.875217	17.67527	14.21526	-2.53650	.3089646	120.9439	1.778464
SDEV	1.897985	3.55619	1.55206	3.01473	4.914503	.5076	.385243
%RSD	101.2142	20.11958	10.91828	118.8542	1590.636	.4197256	21.66158
#1	1.202754	14.80108	15.44109	-5.85158	2.853556	120.8883	2.089001
#2	4.017879	21.65220	14.73455	.0409919	-5.35607	121.4770	1.899034
#3	.4050174	16.57252	12.47014	-1.79891	3.429405	120.4663	1.347356
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1.897564	183.0311	167578.1
SDEV	.143758	1.2861	863.2
%RSD	7.575946	.7026909	.5150912
#1	1.979500	182.6362	166672.1
#2	1.731571	181.9887	167671.2
#3	1.981621	184.4683	168390.9
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408015-03 OPERATOR:
RUN TIME: 08/12/14 00:22:08
COMMENT: SDG:1408015 CLIENTID:7-30-14 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	36.16676	1411.815	-.091634	2.813074	1939.779	-.442114	-16.7203
SDEV	.30097	1.986	.151064	.481190	13.733	.094490	.5312
%RSD	.8321670	.1406391	164.8562	17.10549	.7079617	21.37225	3.177122
#1	36.10863	1413.649	.0784860	2.651409	1953.796	-.495518	-17.1171
#2	35.89910	1412.090	-.143305	2.433535	1926.349	-.497808	-16.9270
#3	36.49255	1409.706	-.210083	3.354278	1939.193	-.333014	-16.1168
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	48.86698	263.7810	231.3154	938.0843	621.1300	9.942533	87235.50
SDEV	.50602	.6853	4.8345	4.2298	.8534	.084459	299.10
%RSD	1.035507	.2597965	2.090000	.4508991	.1373972	.8494765	.3428696
#1	49.16491	263.0836	227.1264	942.7856	621.6113	9.923902	86976.43
#2	48.28272	264.4535	230.2144	936.8804	621.6340	9.868945	87562.84
#3	49.15331	263.8060	236.6054	934.5870	620.1446	10.03475	87167.23
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	825.4885	.2043279	.7948099	301.6528	19.71458	.3885971	4.170215
SDEV	1.2887	1.786905	.3035488	.9577	.67842	3.777941	2.117007
%RSD	.1561087	874.5283	38.19138	.3174724	3.441231	972.2001	50.76494
#1	824.5483	2.241853	.4506398	302.3465	19.19637	-.354105	5.815490
#2	826.9574	-1.09621	.9094313	302.0517	19.46491	-2.96284	1.781844
#3	824.9597	-.532660	1.024359	300.5602	20.48246	4.482734	4.913311
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1443774	23.89157	17.62892	-5.77876	3.467588	155.8820	1.906366
SDEV	3.599008	2.47552	.99642	6.58392	2.378919	2.3674	.641016
%RSD	2492.778	10.36149	5.652189	113.9332	68.60445	1.518707	33.62504
#1	.8730304	21.03651	18.27758	-7.23625	3.081734	156.8410	2.270811
#2	3.323306	25.44022	16.48162	-11.5118	1.305181	157.6195	2.282075
#3	-3.76320	25.19799	18.12757	1.411785	6.015847	153.1856	1.166213
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	2.404280	248.2781	165744.2
SDEV	.311133	1.7347	613.7
%RSD	12.94081	.6986767	.3702974
#1	2.726015	246.3538	166355.7
#2	2.104961	248.7589	165128.2
#3	2.381865	249.7217	165748.7
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408015-04 OPERATOR:
RUN TIME: 08/12/14 00:29:21
COMMENT: SDG:1408015 CLIENTID:7-31-14 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	25.77522	853.9770	-.047214	3.539594	1219.833	-1.93164	-19.4336
SDEV	.21235	3.1391	.060953	1.012723	7.320	.16633	.4138
%RSD	.8238429	.3675876	129.0985	28.61128	.6000718	8.610796	2.129083
#1	25.67045	852.8840	-.052433	4.567940	1221.356	-1.87584	-18.9565
#2	25.63562	851.5305	.0161803	3.507588	1226.272	-2.11869	-19.6933
#3	26.01959	857.5165	-.105390	2.543253	1211.872	-1.80038	-19.6510
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	31.36374	162.5503	161.8223	589.8936	396.0555	6.182753	54770.75
SDEV	.70548	.6240	6.2648	3.3411	2.0064	.056861	456.13
%RSD	2.249339	.3838931	3.871423	.5663884	.5065981	.9196710	.8327894
#1	32.15807	161.9527	168.4392	586.3754	395.5644	6.245334	54288.04
#2	31.12299	162.5004	155.9820	593.0237	398.2619	6.134261	54829.66
#3	30.81014	163.1978	161.0456	590.2814	394.3403	6.168662	55194.57
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	514.8422	-1.55734	.5235741	187.0764	12.83924	.3779847	2.960127
SDEV	3.2960	3.93610	.2309017	1.4380	.70946	2.077306	1.971584
%RSD	.6401893	252.7444	44.10106	.7686955	5.525742	549.5740	66.60472
#1	513.9476	-1.48025	.7550356	187.8194	12.87476	-1.58236	1.370583
#2	512.0859	-5.53142	.2932363	185.4188	13.53027	2.555232	2.343460
#3	518.4932	2.339640	.5224504	187.9910	12.11268	.1610810	5.166336
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.194183	15.14603	11.68749	-5.86861	3.496525	101.4711	2.097447
SDEV	2.886063	.27080	1.05401	1.44248	2.394273	3.1698	.491550
%RSD	241.6768	1.787900	9.018233	24.57952	68.47578	3.123857	23.43563
#1	-2.12546	15.45741	11.58530	-7.23723	1.240765	100.4438	2.655470
#2	2.600331	15.01514	12.78887	-4.36217	6.008675	98.94244	1.908319
#3	3.107674	14.96555	10.68831	-6.00642	3.240135	105.0272	1.728552
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1.417864	157.0182	165947.4
SDEV	.337953	.0880	499.4
%RSD	23.83537	.0560361	.3009612
#1	1.801093	157.0823	165581.4
#2	1.289997	157.0544	166516.4
#3	1.162502	156.9179	165744.5
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408015-05 OPERATOR:
RUN TIME: 08/12/14 00:36:34
COMMENT: SDG:1408015 CLIENTID:8-1-14 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	25.89158	870.1040	-.172920	4.700053	1125.588	-2.08969	-20.5159
SDEV	.59474	6.7486	.011028	.903177	43.927	.13406	.8785
%RSD	2.297040	.7756137	6.377482	19.21633	3.902551	6.415195	4.281947
#1	25.56591	866.4311	-.160400	3.695511	1085.733	-2.09096	-20.6569
#2	25.53079	877.8925	-.181195	4.959627	1172.686	-1.95500	-19.5755
#3	26.57802	865.9884	-.177165	5.445020	1118.345	-2.22311	-21.3154
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	29.87479	163.7124	163.9263	573.1475	386.1765	6.163873	53532.00
SDEV	.66649	.5102	14.7428	6.0592	3.5889	.080696	265.26
%RSD	2.230952	.3116686	8.993539	1.057174	.9293318	1.309173	.4955105
#1	29.45268	164.2183	180.3688	566.4755	388.0878	6.166254	53229.12
#2	30.64314	163.1979	159.5238	578.3076	388.4053	6.243352	53643.98
#3	29.52854	163.7211	151.8863	574.6593	382.0365	6.082014	53722.90
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	515.6879	-1.06622	.6049949	186.3419	12.99794	-2.27590	6.843903
SDEV	1.6270	1.85942	.8996759	.7407	.17187	2.34429	4.186627
%RSD	.3155026	174.3931	148.7080	.3975177	1.322312	103.0046	61.17309
#1	514.5845	-2.74631	-.400319	186.9392	13.10112	-1.30431	9.239531
#2	517.5565	.9315901	.8808828	185.5130	13.09318	-.573621	9.282512
#3	514.9228	-1.38395	1.334421	186.5735	12.79953	-4.94978	2.009666
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2971139	16.48320	11.25707	-5.44646	-.693077	99.92544	2.759885
SDEV	1.022445	4.65857	2.55866	3.16628	2.267229	2.46335	.643241
%RSD	344.1258	28.26253	22.72937	58.13468	327.1252	2.465188	23.30680
#1	.0191696	11.90397	13.69871	-2.64121	-.636942	99.85841	2.595070
#2	1.429794	16.32838	11.47692	-4.81850	1.545563	97.49629	3.469496
#3	-.557622	21.21725	8.595575	-8.87966	-2.98785	102.4216	2.215087
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1.570026	152.8963	162281.9
SDEV	.158780	.9288	1057.9
%RSD	10.11323	.6074741	.6518902
#1	1.569255	151.8799	162736.8
#2	1.729191	153.7008	161072.6
#3	1.411633	153.1082	163036.2
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408016-01 OPERATOR:
RUN TIME: 08/12/14 00:43:47
COMMENT: SDG:1408015 CLIENTID:7-28-14 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.51955	243.9339	-3.85908	3.695204	1609.780	-3.58753	-21.8573
SDEV	.13965	5.5505	.13930	.509225	53.496	.05131	.5834
%RSD	1.327527	2.275414	3.609715	13.78069	3.323183	1.430177	2.668910
#1	10.37990	250.3430	-3.80076	3.852251	1554.973	-3.54771	-21.2071
#2	10.51955	240.7628	-4.01806	4.107407	1612.506	-3.56945	-22.0299
#3	10.65920	240.6960	-3.75842	3.125955	1661.860	-3.64543	-22.3349
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	26.50518	47.12483	63.54185	957.6702	508.7099	2.838532	84446.53
SDEV	.64402	.38660	4.46174	4.6962	2.4495	.066424	299.93
%RSD	2.429805	.8203780	7.021727	.4903823	.4815062	2.340099	.3551657
#1	25.90855	46.75130	64.77736	961.6967	511.0544	2.813069	84299.10
#2	27.18793	47.52330	67.25563	952.5113	506.1675	2.913921	84248.86
#3	26.41905	47.09988	58.59256	958.8028	508.9078	2.788606	84791.64
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	167.1051	-4.00793	.2238089	56.09139	4.299113	.0543571	3.204825
SDEV	.8643	1.79423	.0683221	.43028	2.498711	.7807772	.383639
%RSD	.5172068	44.76696	30.52698	.7671024	58.12153	1436.383	11.97067
#1	167.6343	-1.93633	.2620379	56.56029	5.657487	.0849407	3.135282
#2	166.1077	-5.06834	.2644591	55.99921	1.415461	.8193932	3.618479
#3	167.5732	-5.01912	.1449297	55.71467	5.824392	-.741262	2.860714
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.9580761	8.247670	2.327703	-2.15952	1.159561	32.02364	2.308012
SDEV	.6619344	1.800645	4.145868	5.52541	1.900832	.43453	.331538
%RSD	69.08996	21.83217	178.1098	255.8631	163.9269	1.356919	14.36466
#1	.1980946	9.626186	3.676020	-5.52680	2.886528	31.53995	2.505016
#2	1.408623	8.906407	-2.32449	4.217332	-.877103	32.38105	1.925239
#3	1.267511	6.210416	5.631578	-5.16909	1.469258	32.14993	2.493780
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.3954623	239.6788	162724.1
SDEV	.2115811	1.0412	787.8
%RSD	53.50222	.4344190	.4841151
#1	.2890201	240.8507	161879.3
#2	.6391279	239.3252	163438.7
#3	.2582388	238.8604	162854.2
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: LLCCV OPERATOR:
RUN TIME: 08/12/14 00:51:00
COMMENT: LLCCV
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	Q2.906000	Q81.68339	200.8313	Q7.617707	4456.556	Q.4169409	Q-2.62965
SDEV	.617616	4.40195	1.0531	1.336145	7.647	.2750536	.60571
%RSD	21.25312	5.389038	.5243870	17.53999	.1715996	65.96945	23.03382
#1	Q3.464498	Q86.58486	201.3154	Q9.042959	4454.822	Q.2786640	Q-2.86083
#2	Q3.010820	Q78.06696	199.6232	6.393440	4449.925	Q.7336962	Q-1.94239
#3	Q2.242682	Q80.39835	201.5554	Q7.416723	4464.922	Q.2384624	Q-3.08572
ERRORS	QC FAIL	QC FAIL	QC PASS	QC FAIL	QC PASS	QC FAIL	QC FAIL
VALUE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	20.00000
RANGE	1.500000	60.00000	60.00000	1.500000	1500.000	1.500000	6.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.757667	Q-3.28585	162.8657	4543.175	4333.907	9.532085	4048.917
SDEV	.706864	.59853	3.7264	1.896	11.083	.131842	64.768
%RSD	7.244194	18.21534	2.288007	.0417353	.2557268	1.383136	1.599646
#1	10.42495	Q-3.31886	158.5643	4541.039	4323.647	9.607428	4120.097
#2	9.016957	Q-3.86719	165.1113	4543.830	4345.661	9.379850	3993.452
#3	9.831089	Q-2.67150	164.9216	4544.657	4332.412	9.608978	4033.202
ERRORS	QC PASS	QC FAIL	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	5.000000	200.0000	5000.000	5000.000	10.00000	5000.000
RANGE	3.000000	1.500000	60.00000	1500.000	1500.000	3.000000	1500.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.41911	29.88569	19.60298	26.07539	8.268874	9.000238	26.50744
SDEV	.50564	1.81133	.49167	.21758	1.009430	1.713584	1.67735
%RSD	4.853046	6.060861	2.508155	.8344117	12.20758	19.03931	6.327848
#1	10.00777	31.38397	19.99619	26.25278	9.039622	8.765235	24.67002
#2	10.98363	30.40039	19.05172	26.14076	8.640738	10.81920	26.89565
#3	10.26592	27.87271	19.76103	25.83262	7.126263	7.416285	27.95664
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	30.00000	20.00000	30.00000	10.00000	10.00000	30.00000
RANGE	3.000000	9.000000	6.000000	9.000000	3.000000	3.000000	9.000000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.976507	10.92952	6.940455	11.29532	7.854348	48.55487	47.35658
SDEV	1.274926	1.64095	2.047006	4.25220	1.896816	2.51479	1.07587
%RSD	14.20292	15.01395	29.49383	37.64574	24.14988	5.179274	2.271842
#1	7.577744	11.54329	7.789572	7.357712	9.467869	51.45452	48.36944
#2	10.07342	9.070152	8.426259	15.80433	8.330290	46.97027	47.47311
#3	9.278358	12.17511	4.605535	10.72390	5.764886	47.23982	46.22719
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	10.00000					50.00000	50.00000
RANGE	3.000000					15.00000	15.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	49.29976	44.94553	165029.1
SDEV	.26670	.40384	897.2
%RSD	.5409855	.8985067	.5436367
#1	49.22552	45.33951	164937.3
#2	49.07804	44.96458	164181.3
#3	49.59572	44.53251	165968.6
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	50.00000	50.00000	
RANGE	15.00000	15.00000	

ANALYSIS REPORT QC STANDARD 08/12/14 01:05:23 AM PAGE 1

METHOD: P4S12014 SAMPLE NAME: CCV1 OPERATOR:
RUN TIME: 08/12/14 00:58:13
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	Q87.46098	50471.89	1019.354	916.7213	46811.73	Q895.8925	Q887.8539
SDEV	.47413	536.41	5.915	4.2659	86.72	2.8758	6.3126
%RSD	.5421091	1.062791	.5802936	.4653448	.1852602	.3209998	.7109942
#1	Q87.51793	51076.20	1023.911	921.6253	46909.70	899.1683	Q895.0930
#2	Q87.90406	50287.41	1012.669	914.6703	46780.69	Q894.7262	Q884.9728
#3	Q86.96094	50052.07	1021.480	913.8682	46744.80	Q893.7831	Q883.4958
ERRORS	QC FAIL	QC PASS	QC PASS	QC PASS	QC PASS	QC FAIL	QC FAIL
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	948.4094	Q877.0292	23513.67	Q43877.33	Q44124.96	954.1190	Q41865.78
SDEV	9.1232	5.8159	102.04	552.05	325.02	6.0248	804.24
%RSD	.9619459	.6631332	.4339616	1.258162	.7365894	.6314477	1.921008
#1	955.2250	Q876.8586	23631.18	Q44483.76	Q44499.55	960.9243	Q42778.88
#2	938.0450	Q882.9285	23447.35	Q43744.21	Q43957.71	949.4659	Q41555.88
#3	951.9581	Q871.3005	23462.49	Q43404.01	Q43917.62	951.9667	Q41262.59
ERRORS	QC PASS	QC FAIL	QC PASS	QC FAIL	QC FAIL	QC PASS	QC FAIL
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	932.1309	973.5087	936.7006	Q887.4961	897.6122	Q822.3026	935.3818
SDEV	4.9629	3.3475	6.7999	6.3572	5.3768	15.9409	10.2996
%RSD	.5324255	.3438575	.7259431	.7163045	.5990159	1.938564	1.101114
#1	937.7538	975.7619	944.2961	Q894.3077	903.7236	Q840.6226	947.2601
#2	928.3614	975.1020	931.1793	Q886.4599	Q893.6083	Q814.6902	929.9542
#3	930.2775	969.6622	934.6265	Q881.7207	Q895.5048	Q811.5950	928.9310
ERRORS	QC PASS	QC PASS	QC PASS	QC FAIL	QC PASS	QC FAIL	QC PASS
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	Q839.4365	898.6722	897.0833	850.2017	808.3738	949.2883	925.4068
SDEV	8.8881	11.9923	3.5256	27.0940	12.6766	3.6428	4.2845
%RSD	1.058819	1.334449	.3930031	3.186768	1.568161	.3837411	.4629807
#1	Q849.6675	910.1742	900.5033	879.9874	820.9695	953.4928	923.9317
#2	Q835.0238	886.2433	897.2855	827.0208	808.5341	947.2927	922.0548
#3	Q833.6182	899.5992	893.4609	843.5970	795.6179	947.0793	930.2340
ERRORS	QC FAIL	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	1001.743	917.5640	166021.8
SDEV	4.025	8.7163	1744.9
%RSD	.4017865	.9499441	1.051002
#1	1006.172	927.0422	164147.2
#2	1000.748	915.7569	167598.8
#3	998.3089	909.8928	166319.2
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

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METHOD: P4S12014 SAMPLE NAME: CCB1 OPERATOR:
RUN TIME: 08/12/14 01:05:31
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.51284	-160.993	-.210536	1.281483	-147.725	-4.20304	Q-23.0552
SDEV	.40462	5.019	.076383	.790269	13.758	.13882	.5105
%RSD	26.74591	3.117500	36.28025	61.66835	9.312892	3.302888	2.214337
#1	-1.45468	-166.734	-.219932	1.920348	-155.038	-4.29150	Q-23.5337
#2	-1.14045	-157.438	-.281787	1.526332	-156.282	-4.04304	Q-22.5178
#3	-1.94340	-158.805	-.129890	.3977682	-131.856	-4.27457	Q-23.1140
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC FAIL
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.374438	Q-8.55811	16.73458	12.61362	12.37100	-.011964	-164.216
SDEV	.541704	.58243	12.86306	3.77588	1.50578	.039725	15.659
%RSD	144.6712	6.805599	76.86514	29.93496	12.17183	332.0272	9.535641
#1	-.548052	Q-8.90670	21.05925	15.91469	13.36425	.0037582	-156.280
#2	-.808052	Q-8.88191	2.266505	8.496411	10.63847	.0174927	-154.113
#3	.2327889	Q-7.88573	26.87798	13.42975	13.11027	-.057144	-182.254
ERRORS	QC PASS	QC FAIL	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7023562	1.035669	.4383925	.0196148	-.329089	.1372213	.3923812
SDEV	.9337721	2.650442	.1143585	.2398953	1.936702	1.327642	1.264670
%RSD	132.9485	255.9159	26.08587	1223.034	588.5040	967.5190	322.3065
#1	.8061703	4.092031	.5507173	.2861797	1.878229	-1.16871	1.852635
#2	-.278985	-.629750	.3221034	-.048421	-1.12190	1.485557	-.326171
#3	1.579883	-.355273	.4423567	-.178914	-1.74360	.0948192	-.349321
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6222258	.3854498	-.685904	1.616623	-.601442	2.436819	3.041405
SDEV	1.732239	1.948769	1.974355	1.589677	1.502180	2.632376	.678160
%RSD	278.3940	505.5832	287.8472	98.33322	249.7630	108.0250	22.29760
#1	-1.20899	2.451400	1.591992	-.186725	-1.65904	5.417031	3.728212
#2	2.234714	.1248666	-1.74443	2.221606	1.118012	1.464551	3.023767
#3	.8409512	-1.41992	-1.90527	2.814987	-1.26330	.4288767	2.372236
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	10.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.2605074	2.460888	167644.3
SDEV	.0956344	1.431414	886.0
%RSD	36.71083	58.16656	.5284935
#1	.3399478	4.076355	168549.3
#2	.2872164	1.350424	166778.7
#3	.1543578	1.955884	167605.1
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	40.00000	200.0000	

METHOD: P4S12014 SAMPLE NAME: SDI1408016-01 OPERATOR:
RUN TIME: 08/12/14 01:12:49
COMMENT: SDG:1408015 CLIENTID:7-28-14L 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.198600	-90.3086	-.700009	2.171100	220.6703	-4.42754	-23.4037
SDEV	.367760	1.9992	.169979	.940116	25.4733	.07976	.5228
%RSD	30.68242	2.213775	24.28235	43.30135	11.54361	1.801365	2.233867
#1	1.233439	-90.3392	-.504255	3.254176	193.9109	-4.41603	-23.0013
#2	1.547702	-92.2924	-.810256	1.693021	244.6255	-4.51243	-23.9946
#3	.8146615	-88.2943	-.785516	1.566103	223.4745	-4.35416	-23.2151
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	5.367838	3.245624	22.93177	194.6822	114.5715	.6114398	15889.23
SDEV	.373088	.310986	3.25288	9.0880	3.7943	.0633496	128.87
%RSD	6.950433	9.581696	14.18505	4.668100	3.311699	10.36073	.8110451
#1	4.939532	2.996816	20.99612	204.2238	118.6045	.6800538	15866.52
#2	5.541870	3.594267	26.68728	193.6941	114.0373	.5990931	15773.23
#3	5.622114	3.145791	21.11191	186.1287	111.0726	.5551723	16027.95
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	36.38849	3.947807	-.114514	12.46048	-.273858	1.554411	2.237834
SDEV	.06142	1.973202	.450336	.60388	.395697	.516057	1.953079
%RSD	.1687958	49.98222	393.2595	4.846322	144.4897	33.19953	87.27540
#1	36.45911	1.773695	.3336427	11.86969	.1468770	1.631213	.5401259
#2	36.34748	5.625160	-.110186	13.07664	-.329913	1.004257	1.801054
#3	36.35887	4.444567	-.566997	12.43512	-.638538	2.027763	4.372323
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.862975	-.402946	-.209497	3.050920	.8072068	8.773988	1.445629
SDEV	.674526	2.034645	.658733	2.368961	1.177623	2.351584	.827051
%RSD	36.20690	504.9424	314.4350	77.64743	145.8886	26.80177	57.21047
#1	2.521526	.7380890	-.148375	.6113588	2.140304	7.203383	1.267901
#2	1.893864	.8051063	-.896661	3.199075	-.091578	11.47758	2.347096
#3	1.173536	-2.75203	.4165440	5.342327	.3728938	7.640997	.7218903
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.3339562	49.04375	168823.0
SDEV	.0607377	.38254	1078.4
%RSD	18.18733	.7799916	.6387892
#1	.3642531	48.60829	168756.8
#2	.2640296	49.19733	169933.0
#3	.3735859	49.32564	167779.2
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408016-02 OPERATOR:
RUN TIME: 08/12/14 01:20:02
COMMENT: SDG:1408015 CLIENTID:7-29-14 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.653766	-25.3886	-4.47075	3.137222	1546.152	-4.49079	-24.0799
SDEV	.590708	20.7899	.18140	.764082	23.022	.56766	2.0299
%RSD	16.16710	81.88692	4.057546	24.35536	1.489008	12.64053	8.429651
#1	3.502557	-30.3735	-4.32175	2.518313	1529.976	-4.70205	-24.4696
#2	3.153360	-2.55937	-4.67275	3.991226	1535.970	-3.84779	-21.8834
#3	4.305381	-43.2329	-4.41776	2.902127	1572.510	-4.92252	-25.8866
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	22.15594	.7807924	24.26235	964.6044	489.9344	1.299582	83303.38
SDEV	.65737	.5630022	25.10875	7.1338	6.6461	.227339	678.80
%RSD	2.967034	72.10651	103.4885	.7395541	1.356529	17.49327	.8148531
#1	21.77228	.5066496	11.21624	965.3098	493.1112	1.155073	82904.41
#2	22.91499	1.428359	53.20858	971.3594	494.3959	1.561629	84087.15
#3	21.78054	.4073683	8.362235	957.1442	482.2960	1.182044	82918.59
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	28.99503	-1.06042	1.015604	5.429816	1.912694	-2.50263	3.689019
SDEV	.41344	3.78947	.371519	.712459	2.341394	1.32455	4.402642
%RSD	1.425891	357.3557	36.58114	13.12124	122.4134	52.92635	119.3445
#1	28.62439	2.687429	.5882620	4.801755	4.594569	-1.11735	-.050745
#2	28.91978	-4.89019	1.196703	6.204012	.8680454	-2.63385	8.541161
#3	29.44093	-.978501	1.261846	5.283680	.2754684	-3.75668	2.576640
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.794588	5.066777	.3379345	-5.18533	-1.16336	3.395089	2.429315
SDEV	1.425067	6.286461	2.015857	4.27811	1.94115	2.155660	1.010245
%RSD	179.3468	124.0722	596.5232	82.50409	166.8571	63.49348	41.58561
#1	.5951576	11.50793	1.142988	-.949767	-1.20109	2.302928	1.454557
#2	-2.25253	-1.05263	1.826861	-9.50475	.7963791	5.878245	3.471654
#3	-.726392	4.745036	-1.95605	-5.10147	-3.08537	2.004095	2.361733
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.0602331	239.3291	163892.9
SDEV	.5064239	3.0863	3088.4
%RSD	840.7731	1.289581	1.884430
#1	-.079688	237.7281	164056.5
#2	.6219067	242.8870	160725.9
#3	-.361520	237.3723	166896.2
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408016-03 OPERATOR:
RUN TIME: 08/12/14 01:27:16
COMMENT: SDG:1408015 CLIENTID:7-30-14 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.878683	144.9381	-5.50292	2.990070	2016.207	-4.05610	-23.2028
SDEV	.698146	6.3729	.16714	.402241	28.363	.10905	.7363
%RSD	7.863174	4.396991	3.037309	13.45258	1.406754	2.688464	3.173330
#1	9.576823	139.3746	-5.38337	3.165900	1983.523	-3.94273	-23.4084
#2	8.878695	151.8912	-5.43148	3.274459	2034.358	-4.06533	-22.3856
#3	8.180530	143.5487	-5.69391	2.529850	2030.741	-4.16024	-23.8145
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	30.29401	30.49822	40.20866	1198.870	628.3966	2.516846	106721.0
SDEV	.64905	.40245	14.82368	13.084	5.7893	.047235	1250.9
%RSD	2.142514	1.319570	36.86688	1.091388	.9212756	1.876752	1.172091
#1	30.29973	30.06676	42.10865	1187.934	624.2397	2.483370	105379.0
#2	30.94018	30.86342	53.99075	1213.366	635.0089	2.496294	107854.6
#3	29.64211	30.56448	24.52660	1195.310	625.9413	2.570876	106929.4
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	120.6085	-2.90137	.8012476	36.76175	2.498903	-.582074	6.062547
SDEV	1.4685	1.96036	.3540419	.68531	1.121844	1.315476	3.892905
%RSD	1.217590	67.56647	44.18633	1.864181	44.89345	225.9980	64.21236
#1	119.4362	-1.11079	1.185664	36.53371	3.793187	-1.73190	3.644510
#2	122.2557	-4.99598	.7295113	37.53200	1.805324	.8524313	10.55326
#3	120.1336	-2.59735	.4885671	36.21954	1.898199	-.866750	3.989869
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2608232	6.362502	.5699083	-4.29187	1.269967	22.52084	3.859409
SDEV	1.841596	6.048283	1.359735	1.39940	1.645945	.75485	.188823
%RSD	706.0706	95.06139	238.5884	32.60594	129.6053	3.351778	4.892535
#1	-1.11828	13.26836	-.937391	-4.19220	-.503677	23.35675	4.070053
#2	2.352170	2.007620	1.704236	-2.94496	2.748208	21.88902	3.705343
#3	-.451417	3.811520	.9428805	-5.73844	1.565370	22.31676	3.802832
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.2528729	303.1576	163466.0
SDEV	.2457227	3.4351	399.2
%RSD	97.17240	1.133112	.2442118
#1	.2409312	299.5999	163912.3
#2	.5043487	306.4554	163342.6
#3	.0133388	303.4175	163143.1
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408016-04 OPERATOR:
RUN TIME: 08/12/14 01:34:29
COMMENT: SDG:1408015 CLIENTID:7-31-14 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.355850	231.7167	-3.49456	4.353109	1417.528	-4.88986	-28.2606
SDEV	.610124	9.2000	.10940	.616323	5.442	.15427	.7523
%RSD	6.521306	3.970361	3.130549	14.15823	.3838894	3.154866	2.662021
#1	10.03090	232.3134	-3.50870	3.721360	1411.328	-4.71214	-27.3991
#2	9.192923	222.2329	-3.37878	4.952752	1419.747	-4.98924	-28.7877
#3	8.843729	240.6038	-3.59620	4.385216	1421.510	-4.96820	-28.5950
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	24.44912	46.65176	68.56462	841.2577	456.5775	2.758891	76495.78
SDEV	.40871	.39879	7.56215	5.2550	3.9948	.140495	605.15
%RSD	1.671685	.8548238	11.02923	.6246598	.8749524	5.092444	.7910836
#1	24.61028	46.25296	60.39858	837.1504	454.3574	2.917530	76372.45
#2	23.98440	46.65180	69.96941	839.4432	454.1859	2.650176	75961.80
#3	24.75268	47.05054	75.32587	847.1795	461.1893	2.708966	77153.09
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	161.2661	-3.66778	.4144927	52.70760	4.547759	-.272455	5.164152
SDEV	1.7819	1.76727	.7004151	1.00872	.795813	1.659501	2.068373
%RSD	1.104928	48.18363	168.9813	1.913805	17.49902	609.0915	40.05252
#1	163.2328	-1.62985	-.320264	53.45674	5.449870	-1.88852	4.799246
#2	159.7592	-4.77826	.4891573	51.56062	3.945160	1.427316	3.302516
#3	160.8063	-4.59522	1.074585	53.10543	4.248247	-.356162	7.390694
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3145223	6.685794	3.480252	-6.46715	2.820174	29.57168	1.866737
SDEV	2.015165	.693736	1.330636	2.83235	3.583334	1.36291	1.220925
%RSD	640.7065	10.37627	38.23389	43.79594	127.0607	4.608837	65.40420
#1	-.140900	6.323042	5.013845	-3.32531	-1.17128	28.85585	1.928248
#2	-1.43396	6.248642	2.795055	-7.25142	5.760105	31.14336	.6162201
#3	2.518425	7.485700	2.631855	-8.82472	3.871694	28.71584	3.055744
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.6541068	215.4322	164071.8
SDEV	.2557073	1.5153	1385.3
%RSD	39.09259	.7033804	.8443206
#1	.4625730	215.5343	163296.3
#2	.5552656	213.8684	165671.2
#3	.9444818	216.8939	163248.0
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

METHOD: P4S12014 SAMPLE NAME: 1408016-05 OPERATOR:
RUN TIME: 08/12/14 01:41:42
COMMENT: SDG:1408015 CLIENTID:8-1-14 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.03448	336.6379	-4.83088	2.727122	2092.174	-4.21667	-25.6941
SDEV	.16493	3.5884	.25301	.567067	9.941	.33745	1.0086
%RSD	1.097018	1.065939	5.237296	20.79360	.4751432	8.002692	3.925254
#1	15.16243	333.1680	-4.55282	3.243664	2083.537	-4.48250	-26.7597
#2	15.09268	336.4118	-4.89229	2.817352	2089.946	-4.33047	-25.5682
#3	14.84834	340.3340	-5.04753	2.120350	2103.040	-3.83703	-24.7544
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	3000.000	700000.0	60000.00	5000.000	700000.0	30000.00	60000.00
LOW	-4000.00	-700000.	-50000.0	-5000.00	-600000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	34.54767	68.13498	66.76319	1184.041	648.9409	3.782844	107760.5
SDEV	.86531	.06274	9.27286	2.239	3.9828	.162184	732.6
%RSD	2.504673	.0920893	13.88918	.1891207	.6137435	4.287355	.6797973
#1	33.74581	68.14346	71.88010	1182.123	644.3747	3.624462	106914.6
#2	34.43233	68.19305	56.05926	1186.502	650.7497	3.775489	108180.4
#3	35.46486	68.06842	72.35023	1183.498	651.6984	3.948580	108186.5
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	250000.0	300000.0	700000.0	60000.00	300000.0
LOW	-60000.0	-40000.0	-700000.	-100000.	-700000.	-20000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	230.1744	-1.81382	.9153248	76.42520	6.256996	.3314859	3.606953
SDEV	.8960	3.33959	.3422094	.15548	1.277169	1.406297	1.538597
%RSD	.3892761	184.1192	37.38667	.2034451	20.41186	424.2405	42.65643
#1	230.9855	-1.47377	1.289864	76.24983	6.588581	.3876481	1.847085
#2	230.3252	1.342734	.8371329	76.47961	7.335670	-1.10205	4.697675
#3	229.2126	-5.31042	.6189781	76.54617	4.846736	1.708860	4.276097
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	60000.00	60000.00	60000.00	40000.00	60000.00
LOW	-60000.0	-60000.0	-50000.0	-60000.0	-60000.0	-40000.0	-40000.0

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.625570	11.37231	3.703073	-1.32854	1.160181	45.07388	2.476037
SDEV	.913864	3.51399	.213826	2.51877	3.337244	1.87636	.974829
%RSD	146.0851	30.89954	5.774298	189.5897	287.6485	4.162844	39.37053
#1	.4192991	12.58663	3.593955	-.650379	.9058119	44.29652	3.536897
#2	-1.27581	14.11809	3.949444	.7817259	-2.04260	47.21399	1.619688
#3	-1.02020	7.412211	3.565821	-4.11696	4.617331	43.71114	2.271526
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	30000.00					60000.00	50000.00
LOW	-20000.0					-40000.0	-20000.0

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.5400265	302.0905	167045.6
SDEV	.1413523	.8292	842.1
%RSD	26.17507	.2744845	.5041388
#1	.6892289	301.1460	167750.2
#2	.4081151	302.6988	167273.8
#3	.5227354	302.4267	166112.9
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	50000.00	60000.00	
LOW	-40000.0	-40000.0	

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METHOD: P4S12014 SAMPLE NAME: LLCCV OPERATOR:
RUN TIME: 08/12/14 01:48:55
COMMENT: LLCCV
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	Q2.440663	Q67.59747	202.9384	Q7.968052	4322.826	Q-1.27668	Q-11.7439
SDEV	.416517	3.11613	.8831	.602999	28.036	.05531	.2064
%RSD	17.06572	4.609830	.4351653	7.567705	.6485490	4.332289	1.757802
#1	Q1.963520	Q64.20390	201.9191	Q8.652638	4344.802	Q-1.32252	Q-11.7956
#2	Q2.731549	Q68.25839	203.4740	Q7.735825	4332.423	Q-1.29227	Q-11.5165
#3	Q2.626921	Q70.33012	203.4221	Q7.515694	4291.252	Q-1.21525	Q-11.9196
ERRORS	QC FAIL	QC FAIL	QC PASS	QC FAIL	QC PASS	QC FAIL	QC FAIL
VALUE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	20.00000
RANGE	1.500000	60.00000	60.00000	1.500000	1500.000	1.500000	6.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.105495	Q-3.51038	158.7959	4672.281	4177.054	9.395920	3948.088
SDEV	.269184	.12294	13.5022	14.079	8.835	.171579	129.458
%RSD	2.956279	3.502279	8.502856	.3013206	.2115113	1.826101	3.278996
#1	9.415822	Q-3.56837	165.7997	4656.458	4167.266	9.584229	3981.562
#2	8.935077	Q-3.36916	143.2309	4676.963	4184.438	9.355095	4057.520
#3	8.965586	Q-3.59360	167.3572	4683.421	4179.459	9.248436	3805.180
ERRORS	QC PASS	QC FAIL	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	5.000000	200.0000	5000.000	5000.000	10.00000	5000.000
RANGE	3.000000	1.500000	60.00000	1500.000	1500.000	3.000000	1500.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.24048	29.85924	18.79256	24.34990	7.573840	7.927462	28.32365
SDEV	.49987	1.44792	.37421	.39069	.802739	.307791	.78257
%RSD	4.881277	4.849135	1.991260	1.604497	10.59884	3.882597	2.762951
#1	10.14226	30.86435	19.02914	23.90656	8.391274	8.127465	29.14415
#2	10.78217	30.51375	18.98741	24.49923	Q6.786650	7.573030	27.58554
#3	9.797012	28.19963	18.36114	24.64390	7.543596	8.081890	28.24125
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	30.00000	20.00000	30.00000	10.00000	10.00000	30.00000
RANGE	3.000000	9.000000	6.000000	9.000000	3.000000	3.000000	9.000000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.514790	8.346500	7.187998	9.560468	7.112111	46.39687	46.27914
SDEV	1.831229	1.063588	.730670	.536860	.220237	1.57671	.57225
%RSD	19.24614	12.74292	10.16513	5.615418	3.096645	3.398307	1.236515
#1	10.63662	9.563994	7.805702	10.04539	7.169867	47.85473	45.65723
#2	7.401610	7.598101	6.381442	8.983559	6.868752	44.72348	46.39676
#3	10.50614	7.877408	7.376850	9.652453	7.297715	46.61240	46.78345
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	10.00000					50.00000	50.00000
RANGE	3.000000					15.00000	15.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	48.98468	44.22297	167131.2
SDEV	.13663	.19410	370.7
%RSD	.2789148	.4389094	.2217936
#1	48.82943	44.41939	167391.4
#2	49.03801	44.21824	166706.8
#3	49.08660	44.03128	167295.5
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	50.00000	50.00000	
RANGE	15.00000	15.00000	

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METHOD: P4S12014 SAMPLE NAME: CCV1 OPERATOR:
RUN TIME: 08/12/14 01:56:08
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	Q85.25280	51825.16	1029.533	Q878.3377	Q44526.31	Q834.0760	Q831.7901
SDEV	2.26377	637.79	12.476	7.8333	31.57	4.5567	8.8225
%RSD	2.655359	1.230661	1.211767	.8918303	.0708967	.5463141	1.060670
#1	Q82.70496	52073.38	1019.024	Q880.9409	Q44558.92	Q839.2913	Q841.9611
#2	Q86.02073	52301.52	1026.253	Q884.5380	Q44495.90	Q832.0718	Q826.2035
#3	Q87.03271	51100.57	1043.320	Q869.5342	Q44524.10	Q830.8649	Q827.2057
ERRORS	QC FAIL	QC PASS	QC PASS	QC FAIL	QC FAIL	QC FAIL	QC FAIL
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	910.2872	Q878.5315	22586.99	46783.53	Q42103.12	917.9329	Q43278.19
SDEV	2.8947	7.7153	141.19	717.65	501.13	4.2001	577.79
%RSD	.3179953	.8782041	.6250860	1.533974	1.190240	.4575605	1.335053
#1	911.4251	Q869.6227	22740.06	46917.66	Q42612.78	922.7674	Q43193.48
#2	912.4400	Q882.9479	22461.87	47424.65	Q42085.59	915.1822	Q43893.65
#3	906.9965	Q883.0239	22559.04	46008.28	Q41610.98	915.8489	Q42747.43
ERRORS	QC PASS	QC FAIL	QC PASS	QC PASS	QC FAIL	QC PASS	QC FAIL
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	Q886.1959	940.9716	919.4583	Q808.3168	Q847.6915	Q814.1397	931.5349
SDEV	4.7734	9.3786	3.4333	9.2705	13.3937	19.8756	7.2023
%RSD	.5386355	.9966976	.3734017	1.146887	1.580016	2.441296	.7731602
#1	Q891.6257	930.1458	915.7788	Q818.9868	Q861.2881	Q833.9570	931.2573
#2	Q882.6606	946.6315	920.0198	Q802.2365	Q834.5105	Q814.2557	938.8720
#3	Q884.3015	946.1374	922.5761	Q803.7270	Q847.2758	Q794.2064	924.4755
ERRORS	QC FAIL	QC PASS	QC PASS	QC FAIL	QC FAIL	QC FAIL	QC PASS
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	Q814.7999	839.8131	851.6538	838.8928	801.7817	898.0187	Q894.0045
SDEV	18.5250	3.6381	21.8468	13.3056	23.7439	1.6807	5.7631
%RSD	2.273562	.4332071	2.565215	1.586088	2.961394	.1871527	.6446387
#1	Q826.6785	836.3217	873.7529	848.3926	826.7500	897.1518	Q887.3500
#2	Q824.2667	843.5820	830.0684	844.6002	799.1061	896.9485	897.3682
#3	Q793.4544	839.5357	851.1402	823.6857	779.4888	899.9558	897.2953
ERRORS	QC FAIL	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC FAIL
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	993.5321	910.7244	161680.2
SDEV	6.6365	14.2895	3173.1
%RSD	.6679674	1.569031	1.962592
#1	987.0601	918.8761	158484.1
#2	1000.322	919.0725	161726.7
#3	993.2145	Q894.2247	164829.9
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

ANALYSIS REPORT QC STANDARD 08/12/14 02:10:36 AM PAGE 1

METHOD: P4S12014 SAMPLE NAME: CCB1 OPERATOR:
RUN TIME: 08/12/14 02:03:26
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.45469	-169.615	.0821656	3.456216	-161.198	Q-6.57762	Q-34.5829
SDEV	.65394	7.377	.2673667	1.332623	15.961	.18772	.3422
%RSD	44.95394	4.348973	325.3996	38.55728	9.901670	2.853967	.9895066
#1	-.721706	-178.013	.3845357	4.940978	-176.359	Q-6.77848	Q-34.5524
#2	-1.66406	-166.649	-.015036	3.063828	-144.541	Q-6.40662	Q-34.2570
#3	-1.97831	-164.183	-.123003	2.363843	-162.695	Q-6.54775	Q-34.9393
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC FAIL	QC FAIL
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.612953	Q-9.13907	9.592425	15.47739	15.77865	-.082010	-109.328
SDEV	.584451	.30033	8.045361	15.55080	4.09941	.069950	216.495
%RSD	95.35017	3.286208	83.87202	100.4743	25.98072	85.29468	198.0227
#1	-1.25008	Q-9.10549	.6317385	33.43348	20.42600	-.149281	112.6108
#2	-.101691	Q-9.45478	11.94971	6.392083	12.67606	-.009657	-319.933
#3	-.487084	Q-8.85695	16.19583	6.606605	14.23389	-.087093	-120.662
ERRORS	QC PASS	QC FAIL	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4858711	1.195068	.6526201	-.184976	-1.07804	-.757441	-2.03545
SDEV	.2391662	4.889817	.6881242	.291169	.66711	.918289	3.64963
%RSD	49.22420	409.1665	105.4403	157.4094	61.88165	121.2358	179.3040
#1	.3479930	1.701467	1.423735	-.460666	-.324110	-1.48377	-5.47475
#2	.7620363	5.811979	.1010770	-.213791	-1.31816	.2747442	1.793285
#3	.3475840	-3.92824	.4330483	.1195298	-1.59185	-1.06329	-2.42487
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.334556	1.017355	-2.12425	2.063732	-2.16598	3.336406	2.520627
SDEV	2.168912	7.256809	2.70188	4.072190	3.39454	1.110212	1.811638
%RSD	648.2949	713.3015	127.1926	197.3216	156.7204	33.27569	71.87251
#1	-.364159	9.319454	-5.13874	5.881526	-5.16097	3.841368	4.580343
#2	-2.48852	-4.11738	.0792711	-2.22236	1.521355	4.104382	1.807330
#3	1.849006	-2.15001	-1.31327	2.532032	-2.85833	2.063469	1.174208
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	10.00000

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	.1719815	2.538920	171074.2
SDEV	.0307732	.685111	733.3
%RSD	17.89334	26.98436	.4286302
#1	.2050007	3.031471	171127.4
#2	.1668424	2.828762	170315.8
#3	.1441013	1.756527	171779.5
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	40.00000	200.0000	

METHOD: P4S12014 SAMPLE NAME: 1408016-05 OPERATOR:
RUN TIME: 08/12/14 07:34:38
COMMENT: SDG:1408015 CLIENTID:8-1-14 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	K-15.0158	104E6	-17201.4	1672929.	K248289.2	3707424.	16E6
SDEV	3.0940	66E6	12160.7	1110156.	161233.1	2430541.	11E6
%RSD	20.60467	64.02114	70.69617	66.36004	64.93761	65.55875	66.12881
#1	-12.2651	30E6	-3159.45	441061.5	85101.78	1014150.	4293550.
#2	-14.4169	158E6	-24257.2	2595985.	407494.1	5737606.	25E6
#3	K-18.3655	123E6	-24187.4	1981741.	K252271.6	4370518.	19E6

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	K-10459.2	K20.37355	C452290.0	C.0000000	1009134.	K95375.57	12E6
SDEV	63437.9	9.18294	435388.2	.0000000	557268.	68902.49	4959674.
%RSD	606.5264	45.07283	96.26306	.0000000	55.22244	72.24333	41.69449
#1	9314.719	11.92348	488334.5	C.0000000	519728.4	20388.35	6205936.
#2	-81429.0	19.05119	868535.4	C.0000000	1615651.	109842.2	15E6
#3	K40736.66	K30.14597	C.0000000	C.0000000	892022.2	K155896.1	14E6

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-116049.	K-1440E3	K50166.18	K1597.471	K838666.2	K-64776.6	K2174546.
SDEV	187549.	1081362.	19316.26	62989.42	871589.2	247907.4	1302852.
%RSD	161.6121	75.08172	38.50454	3943.072	103.9256	382.7111	59.91375
#1	-10827.1	-269335.	32468.22	17721.51	129397.9	137231.2	814585.2
#2	-4736.20	-2401E3	47259.12	54957.59	1811662.	-341430.	3411575.
#3	-332584.	K-1650E3	K70771.20	K-67886.7	K574938.4	K9868.715	K2297477.

ELEM	AS1890	22031	22032	19601	19602	SN1899	MO2020
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	K-355532.	K1874254.	K321627.1	K-2718E3	K1259806.	296156.0	368224.6
SDEV	844535.	1346306.	787589.2	2046872.	685393.	408948.4	347870.3
%RSD	237.5415	71.83159	244.8765	75.30914	54.40461	138.0855	94.47234
#1	4805.945	382687.1	2937.386	-573404.	492011.2	98390.44	111341.1
#2	249065.4	2999461.	1218620.	-4651E3	1809930.	23682.53	764102.2
#3	K-1320E3	K2240614.	K-256676.	K-2930E3	K1477478.	766394.9	229230.4

ELEM	TI3349	B_2496	Y_3710
UNITS	UG/L	UG/LITER	PPM
AVGE	-184593.	K-127596.	43.00000
SDEV	115195.	145709.	1.04137
%RSD	62.40488	114.1951	2.421782
#1	-57291.6	-48432.5	44.20000
#2	-281645.	-295751.	42.33333
#3	-214843.	K-38605.8	42.46666

T. Digestion and Distillation Logs

The following logs shall be submitted, as appropriate, for each preparation procedure. The logs shall include: (1) date; (2) sample weights and volumes, with initial sample weight/volume and final volume clearly indicated; (3) sufficient information to unequivocally identify which QC samples (i.e., LCS, PB) correspond to each batch digested; (4) comments describing any significant sample changes or reactions which occur during preparation shall be entered in the log and noted in the SDG Narrative; (5) indication of pH less than 2 or greater than 12, as applicable; (6) identification of the sample preparer(s) [signature (s)].

METALS/MERCURY PREPARATION LOG

Metals Method: 3050B / 6010C
Mercury Method: 7471B
Prepared By: SAB

CompuChem — A Division Of Liberty Analytical Corp.

Preparation Date: 8-11-14
Preparation Time: 11:00
Batch Number: 4081101/02
Blue Soil

COMPUCHEM SAMPLE ID	CLIENT SAMPLE ID	SAMPLE TYPE	ICP Initial (g)	ICP Final (mL)	HG Initial (g)	HG Final (mL)	*Description Before	*Description After ICP	
4081101/02-BLK1	PBSFD/FE	MB	1.00	100	0.60	100	N/A	CS/CL	
4081101/02-BS1	MLCSFD/FE	LCS	1.00	100	0.60	100	BR/F	Y/CL	
4081101/02-BSD1	MLCSDFD/FE	LCSD	1.00	100	0.60	100	BR/F	Y/CL	
4081101/02-DUP1	P001-S003-0002-01D	DUP	1.00	100	0.60	100	BR/M	Y/CL	
4081101/02-MS1	P001-S003-0002-01S	MS	1.00	100	0.60	100	BR/M	Y/CL	
4081101/02-MSD1	P001-S003-0002-01SD	MSD	1.00	100	0.60	100	BR/M	Y/CL	
1408019-01	P001-COMP01-LW-01	SAMPLE	1.01	100	0.606	100	BR/OIL	CS/CL	
1408019-02	P001-DR0314-LW-01	SAMPLE	1.04	100	0.69	100	G/OIL	CS/CL	
1408019-03	P001-PL0202-SW-01	SAMPLE	1.05	100	0.60	100	W/M	CS/CL	
1408019-04	P001-DR0310-LW-01	SAMPLE	1.09	100	0.68	100	BR/OIL	BR SAB 8-11-14	Y/CL
1408019-05	P001-DR0312-LW-01	SAMPLE	1.09	100	0.600	100	BR/OIL	Y/CL	
1408019-06	P001-DR0702-SW-01	SAMPLE	1.04	100	0.63	100	BK/M	Y/CL	
1408019-07	P001-DR0302-LW-01	SAMPLE	1.02	100	0.69	100	BR/OIL	Y/CL	
1408019-08	P001-DR0501-LW-01	SAMPLE	1.00	100	0.63	100	BR/OIL	Y/CL	
1408019-10	P001-UST01-LW-01	SAMPLE	1.04	100	0.61	100	CS/CL	CS/CL	
1408022-01	TS-1	SAMPLE	1.05	100	0.63	100	BR/M	Y/CL	
1408022-02	BF-1	SAMPLE	1.04	100	0.61	100	BR/M	Y/CL	
1408024-01	P001-S002-0002-01	SAMPLE	1.04	100	0.63	100	BR/M	Y/CL	
1408024-02	P001-S003-0002-01	SAMPLE	1.00	100	0.60	100	BR/M	Y/CL	
1408024-03	P001-S003-0002-02	SAMPLE	1.00	100	0.60	100	BR/M	Y/CL	
1408024-04	P001-S006-0002-01	SAMPLE	1.01	100	0.606	100	BR/M	Y/CL	
1408024-05	P001-S001-0002-01	SAMPLE	1.02	100	0.63	100	BR/M	Y/CL	
1408024-07	P001-S005-0002-01	SAMPLE	1.03	100	0.61	100	BR/M	Y/CL	

Mercury Standards and QC: S0 S0.2 S0.5S1 S5 S10 ICV ICB CRI CCV CCB

NOTE: All standards and QC for mercury were prepared at the same day as the associated samples. Refer to the attached Standard QC Preparation Log, with date matching the above preparation date, for preparation method and instruction.

Record of Tempature/Time	
Hot Block Temp In:	93 C
Hot Block Temp Out:	93 C
Hot Block Identifier	HOTBLOCK#2
Time Hg in water bath:	1155
Time Hg out water bath:	1225
Water Bath Temp In:	95 C
Water Bath Temp Out:	92 C
Water Bath Identifier	HG BATHS 1+2

MS/MSD Reference
ICAP: 1.0 mL of ICCV-#6 SAB 8-11-14
Ref #: 3I18011
ICAP: 1.0 mL of ICCV-#4 SAB 8-11-14
Ref #: 4D01014
HG: 1.0 mL of 100 ppb HG
Ref# 4H11002

LCS Reference
ICAP: 1.0g ERA PPT (540)
Ref #: 4F19055
HG: 0.6g ERA PPT (540)
Ref# 4F19055

* R=red, BL=blue, Y=yellow, G=green, O=orange, V=violet, W=white, CS=colorless, BR=brown, BK=black
GY= grey, F=fine, M=medium, C=coarse, CL=clear, CY=cloudy, OP=opaque

Shading has been applied to unused portions of this worksheet as a substitute for 'Z-out'.

"The presence of the Chemist's/analyst's employee ID number, or signature, on this log attests that strict compliance with the method's SOP has occurred. Any SOP deviations requires documentation by the chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation."

Sample Verification Signature: S Bolton
This signature corroborates that the sample idenification numbers appearing on the digestion cups are the same as those appearing on the field sample containers.

Reviewed By: [illegible]
Date: 8/11/14

JCF 060611

Standards/QC Preparation Log for ICP Metals/Mercury Page 1 of 3 **Case/SDG:** 4081101/02

COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

REAGENTS	REF#[1]	MANUFACTURER	LOT#	EXPIRATION DATE
SULFURIC ACID (H_2SO_4)	4D24009	EMD	54022	04/19
NITRIC ACID (HNO_3)	4E09001	EMD	52389	05/19
POTASSIUM PERMANGANATE ($KMnO_4$)	4D23041	JT BAKER	0000073483	06/20
HYDROCHLORIC ACID (HCL)	4D22037	EMD	53186	04/19
POTASSIUM PERSULFATE ($K_2S_2O_8$)	4C13002	JT BAKER	UN1492	09/17
HYDROGEN PEROXIDE (H_2O_2)	4C13001	EMD	53249403	09/30/15
STANDARDS				
ERA PPT (540)	4F19055	ERA	D082-540	01/31/17
EPA LCS (0405)	0E20016	EPA	0405	05/17/15
TCLP STD 1	4E27023	VHG LABS	402-0100F	05/31/15
ILM 05.3 Matrix Spike	4F19053	HIGH PURITY	1416808	06/17/15
ICCV-4	4D01014	Inorganic Ventures	H2-MEB522016	05/01/15
ICCV-6	3I18011	Inorganic Ventures	G2-MEB48711	09/01/14
ARSENIC (As) 1000ppm				
MERCURY (Hg) 20ppm	4G28001	HIGH PURITY	1418809	07/24/15
MSHG-1PPM	4A24021	Inorganic Ventures	4A24021	02/01/15

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: S. Bolton DATE: 8-11-14

ENTERED BY: S. Bolton DATE: 8-11-14

REVIEWED BY: [signature] DATE: 8/11/14

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

12/03/07:RM

Standards/QC Preparation Log for ICP Metals/Mercury Page 2 of 3 **Case/SDG:** 4081101/02

COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS
Hg 100ppb- 4H11002	Place in a 100mL volumetric flask: 0.5mL of 20ppm Hg stock solution 2.5mL of concentrated HNO_3 Baker instra-analyzed Trace Metals grade or equivalent Dilute to 100mL volume with reagent water **(PREPARE DAILY)**
4H06026 Potassium Persulfate	Place in a 1000mL volumetric flask: 50.0g of $K_2S_2O_8$ Baker instra-analyzed Trace Metals grade or equivalent Dilute to 1000mL with reagent water **(PREPARE AS NEEDED)**
4H06027 Potassium Permanganate	Place in a 2000mL volumetric flask: 100.0g of $KmnO_4$ Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREARE AS NEEDED)**
4F23015 Nitric Acid	Place in a 2000mL volumetric flask: 500mL of Deionized water 1000mL of concentrated HNO_3 Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREPARE AS NEEDED)**
4G28032 Hydrochloric Acid	Place in a 2000mL volumetric flask: 500mL of Deionized water 1000mL of concentrated HCl Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREPARE AS NEEDED)**
Aqua Regia- 4H11010	Place in a 1000mL container: 600mL of Concentrated HCL 200mL of Concentrated HNO3 **(PREPARE AS NEEDED)**

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: S. Bolton DATE: 8-11-14

ENTERED BY: S. Bolton DATE: 8-11-14

REVIEWED BY: [signature] DATE: 8/11/14

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12/03/07:RM

Standards/QC Preparation Log for ICP Metals/Mercury Page 3 of 3 **Case/SDG:** 4081101/02

COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS	Resultant Analyte Concentration
ICV- 4H11003	Pipet into a 300mL BOD Bottle 0.4mL of MSHG-1PPM and 99.6mL of reagent water. Digest according to sample preparation instructions	4.0µg/L
S0/ICB/CCB- 4H11004	Pipet into a 300mL BOD Bottle 100mL of reagent water Digest according to sample preparation instructions	0.0µg/L
S0.2/CRI- 4H11005	Pipet into a 300mL BOD Bottle 0.2mL of Hg 100ppb and 99.8mL of reagent water Digest according to sample preparation instructions	0.2µg/L
S0.5- 4H11006	Pipet into a 300mL BOD Bottle 0.5mL of Hg 100ppb and 99.5mL of reagent water Digest according to sample preparation instructions	0.5µg/L
S1.0- 4H11007	Pipet into a 300mL BOD Bottle 1.0mL of Hg 100ppb and 99mL of reagent water Digest according to sample preparation instructions	1.0µg/L
S5.0/CCV- 4H11008	Pipet into a 300mL BOD Bottle 5.0mL of Hg 100ppb and 95mL of reagent water Digest according to sample preparation instructions	5.0µg/L
S10.0- 4H11009	Pipet into a 300mL BOD Bottle 10mL of Hg 100ppb and 90mL of reagent water Digest according to sample preparation instructions	10.0µg/L

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: S. Bolton DATE: 8-11-14

ENTERED BY: S. Bolton DATE: 8-11-14

REVIEWED BY: [illegible] DATE: 8/11/14

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12/03/07:RM

METALS/MERCURY PREPARATION LOG

Metals Method: 3050B / 6010C
Mercury Method: 7471B
Prepared By: SAB

CompuChem — A Division Of Liberty Analytical Corp.

Preparation Date: 8-11-14
Preparation Time: 11:00
Batch Number: 4081101/02
Blue Soil

COMPUCHEM SAMPLE ID	CLIENT SAMPLE ID	SAMPLE TYPE	ICP Initial (g)	ICP Final (mL)	HG Initial (g)	HG Final (mL)	*Description Before	*Description After ICP	
4081101/02-BLK1	PBSFD/FE	MB	1.00	100	0.60	100	N/A	CS/CL	
4081101/02-BS1	MLCSFD/FE	LCS	1.00	100	0.60	100	BR/F	Y/CL	
4081101/02-BSD1	MLCSDFD/FE	LCSD	1.00	100	0.60	100	BR/F	Y/CL	
4081101/02-DUP1	P001-S003-0002-01D	DUP	1.00	100	0.60	100	BR/M	Y/CL	
4081101/02-MS1	P001-S003-0002-01S	MS	1.00	100	0.60	100	BR/M	Y/CL	
4081101/02-MSD1	P001-S003-0002-01SD	MSD	1.00	100	0.60	100	BR/M	Y/CL	
1408019-01	P001-COMP01-LW-01	SAMPLE	1.01	100	0.666	100	BR/011	CS/CL	
1408019-02	P001-DR0314-LW-01	SAMPLE	1.04	100	0.69	100	G/011	CS/CL	
1408019-03	P001-PL0202-SW-01	SAMPLE	1.05	100	0.60	100	W/M	CS/CL	
1408019-04	P001-DR0310-LW-01	SAMPLE	1.09	100	0.68	100	BR/011	BR SAB 8-11-14	Y/CL
1408019-05	P001-DR0312-LW-01	SAMPLE	1.09	100	0.60	100	BR/011	Y/CL	
1408019-06	P001-DR0702-SW-01	SAMPLE	1.04	100	0.63	100	BR/M	Y/CL	
1408019-07	P001-DR0302-LW-01	SAMPLE	1.02	100	0.69	100	BR/011	Y/CL	
1408019-08	P001-DR0501-LW-01	SAMPLE	1.00	100	0.63	100	BR/011	Y/CL	
1408019-10	P001-UST01-LW-01	SAMPLE	1.04	100	0.61	100	CS/CL	CS/CL	
1408022-01	TS-1	SAMPLE	1.05	100	0.63	100	BR/M	Y/CL	
1408022-02	BF-1	SAMPLE	1.04	100	0.61	100	BR/M	Y/CL	
1408024-01	P001-S002-0002-01	SAMPLE	1.04	100	0.63	100	BR/M	Y/CL	
1408024-02	P001-S003-0002-01	SAMPLE	1.00	100	0.600	100	BR/M	Y/CL	
1408024-03	P001-S003-0002-02	SAMPLE	1.00	100	0.60	100	BR/M	Y/CL	
1408024-04	P001-S006-0002-01	SAMPLE	1.01	100	0.666	100	BR/M	Y/CL	
1408024-05	P001-S001-0002-01	SAMPLE	1.02	100	0.63	100	BR/M	Y/CL	
1408024-07	P001-S005-0002-01	SAMPLE	1.03	100	0.61	100	BR/M	Y/CL	

Mercury Standards and QC S0 S0.2 S0.5S1 S5 S10 ICV ICB CRI CCV CCB

NOTE: All standards and QC for mercury were prepared at the same day as the associated samples. Refer to the attached Standard QC Preparation Log, with date matching the above preparation date, for preparation method and instruction.

Record of Tempature/Time	
Hot Block Temp In:	93 C
Hot Block Temp Out:	93 C
Hot Block Identifier	HOTBLOCK#2
Time Hg in water bath:	1155
Time Hg out water bath:	1225
Water Bath Temp In:	95 C
Water Bath Temp Out:	92 C
Water Bath Identifier	HgBaths 1+2

MS/MSD Reference
ICAP: 1.0 mL of ICCV-#6 SAB 8-11-14
Ref #: 3I18011
ICAP: 1.0 mL of ICCV-#4 SAB 8-11-14
Ref #: 4D01014
HG: 1.0 mL of 100 ppb HG
Ref# 4H11002

LCS Reference
ICAP: 1.0g ERA PPT (540)
Ref #: 4F19055
HG: 0.6g ERA PPT (540)
Ref# 4F19055

* R=red, BL=blue, Y=yellow, G=green, O=orange, V=violet, W=white, CS=colorless, BR=brown, BK=black
GY= grey, F=fine, M=medium, C=coarse, CL=clear, CY=cloudy, OP=opaque

Shading has been applied to unused portions of this worksheet as a substitute for 'Z-out'.

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Sample Verification Signature: S Bolton
This signature corroborates that the sample idenification numbers appearing on the digestion cups are the same as those appearing on the field sample containers.

Reviewed By: [illegible]
Date: 8/11/14

JCF 060611

Standards/QC Preparation Log for ICP Metals/Mercury Page 1 of 3 **Case/SDG:** 4081101/02

COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

REAGENTS	REF#[1]	MANUFACTURER	LOT#	EXPIRATION DATE
SULFURIC ACID (H_2SO_4)	4D24009	EMD	54022	04/19
NITRIC ACID (HNO_3)	4E09001	EMD	52389	05/19
POTASSIUM PERMANGANATE ($KMnO_4$)	4D23041	JT BAKER	0000073483	06/20
HYDROCHLORIC ACID (HCL)	4D22037	EMD	53186	04/19
POTASSIUM PERSULFATE ($K_2S_2O_8$)	4C13002	JT BAKER	UN1492	09/17
HYDROGEN PEROXIDE (H_2O_2)	4C13001	EMD	53249403	09/30/15
STANDARDS				
ERA PPT (540)	4F19055	ERA	D082-540	01/31/17
EPA LCS (0405)	0E20016	EPA	0405	05/17/15
TCLP STD 1	4E27023	VHG LABS	402-0100F	05/31/15
ILM 05.3 Matrix Spike	4F19053	HIGH PURITY	1416808	06/17/15
ICCV-4	4D01014	Inorganic Ventures	H2-MEB522016	05/01/15
ICCV-6	3I18011	Inorganic Ventures	G2-MEB48711	09/01/14
ARSENIC (As) 1000ppm				
MERCURY (Hg) 20ppm	4G28001	HIGH PURITY	1418809	07/24/15
MSHG-1PPM	4A24021	Inorganic Ventures	4A24021	02/01/15

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log

[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: S. Bolton DATE: 8-11-14

ENTERED BY: S. Bolton DATE: 8-11-14

REVIEWED BY: [illegible] DATE: 8/11/14

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12/03/07:RM

Standards/QC Preparation Log for ICP Metals/Mercury Page 2 of 3 **Case/SDG:** 4081101/02

COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS
Hg 100ppb- 4H11002	Place in a 100mL volumetric flask: 0.5mL of 20ppm Hg stock solution 2.5mL of concentrated HNO_3 Baker instra-analyzed Trace Metals grade or equivalent Dilute to 100mL volume with reagent water **(PREPARE DAILY)**
4H06026 Potassium Persulfate	Place in a 1000mL volumetric flask: 50.0g of $K_2S_2O_8$ Baker instra-analyzed Trace Metals grade or equivalent Dilute to 1000mL with reagent water **(PREPARE AS NEEDED)**
4H06027 Potassium Permanganate	Place in a 2000mL volumetric flask: 100.0g of $KmnO_4$ Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREARE AS NEEDED)**
4F23015 Nitric Acid	Place in a 2000mL volumetric flask: 500mL of Deionized water 1000mL of concentrated HNO_3 Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREPARE AS NEEDED)**
4G28032 Hydrochloric Acid	Place in a 2000mL volumetric flask: 500mL of Deionized water 1000mL of concentrated HCl Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREPARE AS NEEDED)**
Aqua Regia- 4H11010	Place in a 1000mL container: 600mL of Concentrated HCL 200mL of Concentrated HNO3 **(PREPARE AS NEEDED)**

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log

[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: S. Bolton DATE: 8-11-14

ENTERED BY: S. Bolton DATE: 8-11-14

REVIEWED BY: [signature] DATE: 8/11/14

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

12/03/07:RM

Standards/QC Preparation Log for ICP Metals/Mercury Page 3 of 3 **Case/SDG:** 4081101/02

COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS	Resultant Analyte Concentration
ICV- 4H11003	Pipet into a 300mL BOD Bottle 0.4mL of MSHG-1PPM and 99.6mL of reagent water. Digest according to sample preparation instructions	4.0µg/L
S0/ICB/CCB- 4H11004	Pipet into a 300mL BOD Bottle 100mL of reagent water Digest according to sample preparation instructions	0.0µg/L
S0.2/CRI- 4H11005	Pipet into a 300mL BOD Bottle 0.2mL of Hg 100ppb and 99.8mL of reagent water Digest according to sample preparation instructions	0.2µg/L
S0.5- 4H11006	Pipet into a 300mL BOD Bottle 0.5mL of Hg 100ppb and 99.5mL of reagent water Digest according to sample preparation instructions	0.5µg/L
S1.0- 4H11007	Pipet into a 300mL BOD Bottle 1.0mL of Hg 100ppb and 99mL of reagent water Digest according to sample preparation instructions	1.0µg/L
S5.0/CCV- 4H11008	Pipet into a 300mL BOD Bottle 5.0mL of Hg 100ppb and 95mL of reagent water Digest according to sample preparation instructions	5.0µg/L
S10.0- 4H11009	Pipet into a 300mL BOD Bottle 10mL of Hg 100ppb and 90mL of reagent water Digest according to sample preparation instructions	10.0µg/L

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: S. Bolton DATE: 8-11-14

ENTERED BY: S. Bolton DATE: 8-11-14

REVIEWED BY: [signature] DATE: 8/11/14

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

12/03/07:RM

U. Standard Preparation Information / Internal CoC Documents

Standard Logs

Analytical Standard Parent/Mix Relationships

SDG:	1408019	**Client:**	WESTON SOLUTIONS
Case No:		**Project:**	RST2/RFP306/EP-S2-14-01/SITE ID:ZZ
Received:	08/08/2014	**PM:**	SMITA SUMBALY
Work Order:	1408019	**COC:**	**Bol Num:**

Standard	Std Mix	Std Mix	Pdf	Description	Prepared	Expires	Solvent	LotNum	Vendor
3I18011			X	INORGANIC VENTURES ICCV-6 2ND SOUR	9/18/13	9/1/14		G2-MEB487118	Inorganic Ventures
3L09047			X	High Purity LRS 6010C (SM-770-045 Sol. A)	12/9/13	12/4/14		1333611	High-Purity
3L09048			X	High Purity LRS 6010C (SM-770-045 Sol. B)	12/9/13	12/4/14		1333612	High-Purity
4D01014			X	Inorganic Venture Custom 2nd Source (ICCV-	4/1/14	5/1/15		H2-MEB522016	Inorganic Ventures
4D27006				ICPAES LLICV/LLCCV/LRS STANDARD	4/27/14	12/4/14		-	CompuChem
	1G20022	STOCK		Caledon Hydrochloric Acid	7/20/11	7/20/16	regeant water	77690	Caledon
	2H31012	STOCK		EMD NITRIC ACID, CONCENTRATED	8/31/12	8/31/17	regeant water	51332	EMD
	3L09047	STOCK	X	High Purity LRS 6010C (SM-770-045 Sol. A)	12/9/13	12/4/14	regeant water	1333611	High-Purity
	3L09048	STOCK	X	High Purity LRS 6010C (SM-770-045 Sol. B)	12/9/13	12/4/14	regeant water	1333612	High-Purity
4E02015			X	ERA PPT (540)	5/2/14	1/31/17		D082-540	ERA
4E15027				ICPAES CCV STANDARD	5/14/14	9/25/14		-	CompuChem
	3E16001	STOCK	X	High Purity -Aluminum 10,000 ppm-10M1-1	5/14/13	11/9/14	HNO3/HCL	1308703	High-Purity
	3J05001	STOCK	X	High Purity RSTD-2A (SM-770-208 Sol. A)	10/5/13	9/25/14	HNO3/HCL	1326610	High-Purity
	3J05002	STOCK	X	High Purity ILM RSTD-2B (SM-770-028 Sol. B	10/5/13	9/25/14	HNO3/HCL	1326611	High-Purity
	4D06003	STOCK	X	High Purity ILM RSTD-3A (ICP-AM-15)	3/20/14	3/12/15	HNO3/HCL	1331807	High-Purity
	4E12003	STOCK	X	High Purity RSTD-1 (SM-770-027)	5/1/14	4/22/15	HNO3/HCL	1410802	High-Purity
	4E12004	STOCK	X	High Purity RSTD-4 (SM-770-030)	5/1/14	4/22/15	HNO3/HCL	1410803	High-Purity
4F19055			X	ERA PPT (540)	6/19/14	1/31/17		D082-540	ERA

Standard	Std Mix	Std Mix	Pdf	Description	Prepared	Expires	Solvent	LotNum	Vendor
4F20007				ICPAES ICV STANDARD	6/19/14	9/1/14		-	CompuChem
	3I18011	STOCK	X	INORGANIC VENTURES ICCV-6 2ND SOUR	9/18/13	9/1/14	regeant water	G2-MEB487118	Inorganic Ventures
	4D01014	STOCK	X	Inorganic Venture Custom 2nd Source (ICCV-	4/1/14	5/1/15	regeant water	H2-MEB522016	Inorganic Ventures
4F20008				ICPAES ICSA STANDARD	6/19/14	1/1/15		-	CompuChem
	1G20022	STOCK		Caledon Hydrochloric Acid	7/20/11	7/20/16	regeant water	77690	Caledon
	3L30007	STOCK	X	INORGANIC VENTURES CLPP-ICS-A (CLPP	12/30/13	1/1/15	regeant water	G2-MEB491156	Inorganic Ventures
4F20009				ICPAES ICSAB STANDARD	6/19/14	8/1/14		-	CompuChem
	3G10029	STOCK	X	Inorganic Venture CLPP-ICS-B4 (CLPP-ICS-B	7/10/13	8/1/14	regeant water	F2-MEB427129	Inorganic Ventures
	3L30007	STOCK	X	INORGANIC VENTURES CLPP-ICS-A (CLPP	12/30/13	1/1/15	regeant water	G2-MEB491156	Inorganic Ventures
	4E12005	STOCK	X	High Purity SPEX (SM-770-026)	5/1/14	4/22/15	regeant water	1312610	High-Purity
4G28039				DOD HRS	7/28/14	9/25/14		-	CompuChem
	3E16001	STOCK	X	High Purity -Aluminum 10,000 ppm-10M1-1	5/14/13	11/9/14	-	1308703	High-Purity
	3J05001	STOCK	X	High Purity RSTD-2A (SM-770-208 Sol. A)	10/5/13	9/25/14	-	1326610	High-Purity
	3J05002	STOCK	X	High Purity ILM RSTD-2B (SM-770-028 Sol. B	10/5/13	9/25/14	-	1326611	High-Purity
	3L09034	STOCK	X	High Purity Barium 10,000 PPM (10M4-1)	12/9/13	5/27/15	-	1227119	High-Purity
	4D06003	STOCK	X	High Purity ILM RSTD-3A (ICP-AM-15)	3/20/14	3/12/15	-	1331807	High-Purity
	4E12003	STOCK	X	High Purity RSTD-1 (SM-770-027)	5/1/14	4/22/15	-	1410802	High-Purity
	4E12004	STOCK	X	High Purity RSTD-4 (SM-770-030)	5/1/14	4/22/15	-	1410803	High-Purity
4H07003				ICPAES S0/ICB/CCB STANDARD	8/7/14	8/7/15		-	CompuChem
	0F25007	STOCK		ICPAES S0/ICB/CCB STOCK STANDARD	6/25/10	6/25/15	regeant water	NA	CompuChem
	3J18033	STOCK		VERITAS NITRIC ACID, CONCENTRATED	10/11/13	10/11/18	regeant water	C252558	VERITAS
	4C13022	STOCK		EMD Hydrochloric Acid	3/13/14	3/13/19	regeant water	53186	EMD
4H07004				ICPAES RSTD-1 STANDARD	8/7/14	4/22/15		-	CompuChem

Standard	Std Mix	Std Mix	Pdf	Description	Prepared	Expires	Solvent	LotNum	Vendor
	2H31012	STOCK		EMD NITRIC ACID, CONCENTRATED	8/31/12	8/31/17	regeant water	51332	EMD
	4E12003	STOCK	X	High Purity RSTD-1 (SM-770-027)	5/1/14	4/22/15	regeant water	1410802	High-Purity
4H07005				ICPAES RSTD-2 STANDARD	8/7/14	9/25/14		-	CompuChem
	1G20022	STOCK		Caledon Hydrochloric Acid	7/20/11	7/20/16	regeant water	77690	Caledon
	2H31012	STOCK		EMD NITRIC ACID, CONCENTRATED	8/31/12	8/31/17	regeant water	51332	EMD
	3J05001	STOCK	X	High Purity RSTD-2A (SM-770-208 Sol. A)	10/5/13	9/25/14	regeant water	1326610	High-Purity
	3J05002	STOCK	X	High Purity ILM RSTD-2B (SM-770-028 Sol. B	10/5/13	9/25/14	regeant water	1326611	High-Purity
4H07006				ICPAES RSTD-3 STANDARD	8/7/14	11/9/14		-	CompuChem
	1G20022	STOCK		Caledon Hydrochloric Acid	7/20/11	7/20/16	regeant water	77690	Caledon
	3E16001	STOCK	X	High Purity -Aluminum 10,000 ppm-10M1-1	5/14/13	11/9/14	regeant water	1308703	High-Purity
	4D06003	STOCK	X	High Purity ILM RSTD-3A (ICP-AM-15)	3/20/14	3/12/15	regeant water	1331807	High-Purity
4H07007				ICPAES RSTD-4 STANDARD	8/7/14	4/22/15		-	CompuChem
	1G20022	STOCK		Caledon Hydrochloric Acid	7/20/11	7/20/16	regeant water	77690	Caledon
	2H31012	STOCK		EMD NITRIC ACID, CONCENTRATED	8/31/12	8/31/17	regeant water	51332	EMD
	4E12004	STOCK	X	High Purity RSTD-4 (SM-770-030)	5/1/14	4/22/15	regeant water	1410803	High-Purity
4H08007				Mercury CAL1 S0/ICB/CCB Standard	8/8/14	8/15/14		-	CompuChem
4H11002				Mercury 100 ppb Standard	8/11/14	8/18/14		-	CompuChem
	4G28001	STOCK	X	High Purity Mercury 20PPM (20 33-1)	7/28/14	7/24/15	REAGENT WATER	1411809	High-Purity
4H11003				Mercury ICV Standard	8/11/14	8/18/14		-	CompuChem
	4A24021	STOCK	X	Inorganic Ventures MSHG-1PPM	1/24/14	2/1/15	-	G2-HG02117	Inorganic Ventures
4H11004				Mercury CAL1 S0/ICB/CCB Standard	8/11/14	8/18/14		-	CompuChem
4H11005				Mercury CAL2 S0.2/CRI Standard	8/11/14	8/18/14		-	CompuChem
	4H11002	4G28001		Mercury 100 ppb Standard	8/11/14	8/18/14	HNO3	1411809	High-Purity

Standard	Std Mix	Std Mix	Pdf	Description	Prepared	Expires	Solvent	LotNum	Vendor
	4G28001	STOCK	X	High Purity Mercury 20PPM (20 33-1)	7/28/14	7/24/15	HNO3	1411809	High-Purity
4H11006				Mercury CAL3 S0.5 Standard	8/11/14	8/18/14		-	CompuChem
	4H11002	4G28001		Mercury 100 ppb Standard	8/11/14	8/18/14	HNO3	1411809	High-Purity
	4G28001	STOCK	X	High Purity Mercury 20PPM (20 33-1)	7/28/14	7/24/15	HNO3	1411809	High-Purity
4H11007				Mercury CAL4 S1.0 Standard	8/11/14	8/18/14		-	CompuChem
	4H11002	4G28001		Mercury 100 ppb Standard	8/11/14	8/18/14	reagent water	1411809	High-Purity
	4G28001	STOCK	X	High Purity Mercury 20PPM (20 33-1)	7/28/14	7/24/15	reagent water	1411809	High-Purity
4H11008				Mercury CAL5 S5.0 Standard	8/11/14	8/18/14		-	CompuChem
	4H11002	4G28001		Mercury 100 ppb Standard	8/11/14	8/18/14	reagent water	1411809	High-Purity
	4G28001	STOCK	X	High Purity Mercury 20PPM (20 33-1)	7/28/14	7/24/15	reagent water	1411809	High-Purity
4H11009				Mercury CAL6 S10.0 Standard	8/11/14	8/18/14		-	CompuChem
	4H11002	4G28001		Mercury 100 ppb Standard	8/11/14	8/18/14	reagent water	1411809	High-Purity
	4G28001	STOCK	X	High Purity Mercury 20PPM (20 33-1)	7/28/14	7/24/15	reagent water	1411809	High-Purity

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 **DESCRIPTION OF CRM** **Custom Solution**

Catalog No.: ICCV-6

Lot Number: **G2-MEB487118**

Matrix: 5% HNO3(v/v)

Rec'd 091813

3I18011

1,100,000 µg/L ea:
Ca, K, Na,

600,000 µg/L ea:
Mg,

510,000 µg/L ea:
Fe,

260,000 µg/L ea:
Al,

110,000 µg/L ea:
As, B, Pb, Se, Tl, Zn,

55,000 µg/L ea:
Ag, Ba, Be, Cd, Co, Cr3, Cu, Mn, Ni, V

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	260,000.00 ± 1,600.00 µg/L	Arsenic, As	110,000.00 ± 700.00 µg/L	Barium, Ba	55,000.0 ± 360.0 µg/L
Beryllium, Be	55,000.0 ± 310.0 µg/L	Boron, B	110,000.00 ± 700.00 µg/L	Cadmium, Cd	54,990.0 ± 360.0 µg/L
Calcium, Ca	1,100,000.000 ± 8,000.000 µg/L	Chromium+3, Cr3	54,990.0 ± 360.0 µg/L	Cobalt, Co	55,000.0 ± 370.0 µg/L
Copper, Cu	54,990.0 ± 390.0 µg/L	Iron, Fe	510,000.00 ± 3,300.00 µg/L	Lead, Pb	110,000.00 ± 700.00 µg/L
Magnesium, Mg	599,900.00 ± 2,700.00 µg/L	Manganese, Mn	55,010.0 ± 370.0 µg/L	Nickel, Ni	55,000.0 ± 390.0 µg/L
Potassium, K	1,100,000.000 ± 5,000.000 µg/L	Selenium, Se	110,000.00 ± 700.00 µg/L	Silver, Ag	55,000.0 ± 350.0 µg/L
Sodium, Na	1,100,000.000 ± 5,000.000 µg/L	Thallium, Tl	110,000.00 ± 700.00 µg/L	Vanadium, V	54,980.0 ± 380.0 µg/L
Zinc, Zn	110,000.00 ± 600.00 µg/L				

Certified Density: 1.044 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

$(\bar{x})$ = mean

x_i = individual results

n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

- "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.
- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Ag	Volhard	999b	999b
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
As	Calculated		See Sec. 4.2
As	ICP Assay	3103a	100818
B	ICP Assay	3107	070514
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Cd	ICP Assay	3108	060531
Cd	EDTA	928	928
Co	ICP Assay	3113	00630
Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2
Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017
Cu	EDTA	928	928
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	Gravimetric		See Sec. 4.2
Na	ICP Assay	3152a	120715
Ni	ICP Assay	3136	000612
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	992106
Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep Tightly sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 **ISO 9001 Quality Management System Registration**
- SAI Global File Number 010105

10.2 **ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"**
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 **ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"**
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 **10CFR50 Appendix B - Nuclear Regulatory Commission**
- Domestic Licensing of Production and Utilization Facilities

10.5 **10CFR21 - Nuclear Regulatory Commission**
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: August 08, 2013

Expiration Date: EXPIRES 01 SEP 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Donna Senn
Product Documentation Technician

Certificate Approved By: Brian Alexander
PhD., Technical Process Director

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

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Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Part Number:	SM-770-045
	Solution A
Lot Number:	1333611
Matrix:	2% HNO_3 + Tr HF
Purity:	99.97% - 99.9999%

3L09047

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
Al	200 ± 2	3101a	060502	Pb	10.00 ± 0.06	3128	101026
Sb	30.00 ± 0.18	3102a	061229	Mn	10.0 ± 0.1	3132	050429
As	10.0 ± 0.1	3103a	100818	Mo	50.0 ± 0.3	3134	891307
Ba	200.0 ± 1.2	3104a	070222	Ni	10.00 ± 0.05	3136	120619
Be	5.00 ± 0.05	3105a	090514	Se	10.0 ± 0.1	3149	100901
Bi	20.0 ± 0.1	3106	991212	Ag	5.00 ± 0.03	3151	992212
B	50.00 ± 0.25	3107	070514	Tl	30.00 ± 0.15	3158	993012
Cd	5.00 ± 0.03	3108	060531	Sn	50.0 ± 0.3	3161a	070330
Cr	10.00 ± 0.05	3112a	030730	Ti	50.0 ± 0.3	3162a	060808
Co	20.0 ± 0.1	3113	000630	V	20.00 ± 0.12	3165	992706
Cu	5.00 ± 0.03	3114	011017	Zn	30.00 ± 0.15	3168a	120629
Fe	200 ± 1	3126a	051031				

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2

* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials. Highest purity source materials were purchased from qualified vendors per ISO 9001:2008 guidelines and assayed by ICP-OES for conformity prior to use. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**December 2, 2013**
Shipped Date:	**December 4, 2013**
Expiration Date:	**December 4, 2014**
Certificate Issue Date:	**December 3, 2013**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

HIGH-PURITY STANDARDS
www.highpuritystandards.com

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Charleston, SC 29423
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Fax (843) 767-7906

Certificate of Analysis

3L09048

Product Description:

Part Number:	**SM-770-045**
	Solution B
Lot Number:	**1333612**
Matrix:	5% HNO_3
Purity:	99.98% - 99.999%

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
Ca	5000 ± 25	3109a	050825	K	5000 ± 25	3141a	051220
Mg	5000 ± 25	3131a	050302	Na	5000 ± 25	3152a	120715

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2

* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials. Highest purity source materials were purchased from qualified vendors per ISO 9001:2008 guidelines and assayed by ICP-OES for conformity prior to use. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**December 2, 2013**
Shipped Date:	**December 4, 2013**
Expiration Date:	**December 4, 2014**
Certificate Issue Date:	**December 3, 2013**

Quality Information:

ACLASS
ACCREDITED
TESTING

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 - USA
inorganicventures.com

4D01014

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 - 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 863.01

ACCREDITED Reference Material Producer Certificate 863.02

2.0 **DESCRIPTION OF CRM** **Custom Second Source Solution**

Catalog No.: ICCV-4

Lot Number: **H2-MEB522016**

Matrix: 5% HNO3(v/v), tr. HF

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

110,000 µg/L ea:

Mo, Sb, Sn, Ti

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Antimony, Sb	110,000.00 ± 1,000.00 µg/L	Molybdenum, Mo	110,000.00 ± 800.00 µg/L	Tin, Sn	110,000.00 ± 900.00 µg/L
Titanium, Ti	110,000.00 ± 800.00 µg/L				

Certified Density: 1.026 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

$(\bar{x})$ = mean

x_i = individual results

n = number of measurements

2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 **TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

- "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.
- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Mo	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330
Ti	Calculated		See Sec. 4.2
Ti	ICP Assay	3162a	060808

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep Tightly sealed when not in use. Store and use at 20 ± 4°C. Do Not pipette from the container. Do Not return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- SAI Global File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: March 26, 2014

Expiration Date: EXPIRES 01 2015

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Donna Senn Product Documentation Technician	Donna Senn
Certificate Approved By:	Brian Alexander PhD., Technical Process Director	Brian Alexander
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	Paul R Gaines

ERA
A Waters Company

Reference Materials

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D082-540
Certificate Issue Date: September 03, 2013
Expiration Date: January 31, 2017
Revision Number: Original

CERTIFICATION

Parameter	Total Concentration	Certified Value[1]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	48500	8740	4.17	4680 - 12800	3640 - 13800
Antimony	249	108	18.8	D.L. - 232	24.8 - 275
Arsenic	175	151	5.32	122 - 181	107 - 196
Barium	738	262	5.99	217 - 307	193 - 331
Beryllium	149	133	5.26	109 - 157	99.9 - 166
Boron	149	122	5.46	89.3 - 155	73.2 - 171
Cadmium	174	152	6.19	124 - 179	111 - 192
Calcium	11800	6400	5.81	5260 - 7540	4730 - 8060
Chromium	149	117	6.36	92.9 - 141	81.5 - 152
Cobalt	87.9	68.7	5.71	57.0 - 80.4	51.1 - 86.4
Copper	80.7	68.6	11.9	55.5 - 81.8	50.2 - 88.6
Iron	29800	12300	17.5	4950 - 19700	3750 - 20900
Lead	293	254	5.44	207 - 301	192 - 317
Magnesium	5820	3600	3.84	2760 - 4440	2460 - 4740
Manganese	852	563	6.38	458 - 667	436 - 690
Mercury	5.90	5.76	14.7	4.10 - 7.41	2.94 - 8.57
Molybdenum	98.0	78.5	6.86	59.8 - 97.2	54.1 - 110
Nickel	370	315	5.44	259 - 371	234 - 399
Potassium	19500	3040	6.32	2140 - 3940	1900 - 4170
Selenium	185	162	4.36	125 - 198	109 - 214
Silver	50.1	44.3	18.6	33.0 - 55.6	29.4 - 59.3
Sodium	10100	746	10.8	535 - 957	424 - 1070
Strontium	259	112	10.9	89.2 - 135	78.8 - 145
Thallium	298	259	8.17	204 - 315	180 - 338

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Parameter	Total Concentration	Certified Value[1]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	131	113	3.93	86.3 - 140	65.5 - 161
Titanium	2420	256	13.7	81.8 - 431	0.00 - 528
Vanadium	164	116	12.0	88.8 - 143	78.3 - 153
Zinc	353	306	5.03	245 - 368	220 - 393

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	8740	8740	100	166	-	-
Antimony	108	108	100	177	-	-
Arsenic	151	151	100	211	-	-
Barium	262	262	100	187	-	-
Beryllium	133	133	100	182	-	-
Boron	122	122	100	123	-	-
Cadmium	152	152	100	209	-	-
Calcium	6400	6400	100	148	-	-
Chromium	117	117	100	205	-	-
Cobalt	68.7	68.7	100	169	-	-
Copper	68.6	68.6	100	200	-	-
Iron	12300	12300	100	164	-	-
Lead	254	254	100	218	-	-
Magnesium	3600	3600	100	154	-	-
Manganese	563	563	100	172	-	-
Mercury	5.76	5.76	100	159	-	-
Molybdenum	78.5	78.5	100	179	-	-
Nickel	315	315	100	201	-	-
Potassium	3040	3040	100	153	-	-
Selenium	162	162	100	203	-	-
Silver	44.3	44.3	100	180	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Sodium	746	746	100	148	-	-
Strontium	112	112	100	97	-	-
Thallium	259	259	100	184	-	-
Tin	113	113	100	122	-	-
Titanium	256	256	100	120	-	-
Vanadium	116	116	100	171	-	-
Zinc	306	306	100	197	-	-

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1. The Certified Values are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study based on all applicable digestion techniques reported in the study. The Certified Values are based on an ""as received"" basis, assuming 100% solids content. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The stated **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. * - These parameters are native elements and are present at high concentrations in the unspiked soil. As methods 3050 and 3051 do not normally dissolve elements bound in silicate structures, the recoveries of these elements will be low relative to the recoveries of the elements that are primarily spiked onto the soil.

7. The Total Concentrations are equal to the background concentrations in the blank soil matrix (measured using neutron activation, XRF, and total acid digestion techniques), plus the amount of each analyte spiked onto the soil. For Trace Metals, the values listed are only ""Theoretical Values"" based upon the methodologies listed.

8. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Tom Widera

Thomas Widera

Quality Officer

Kristina Sanchez

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HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Name:	Aluminum	Source Material:	Aluminum Metal	3E16001
Part Number:	**10M1-1**	Material Purity:	99.9995%	
Lot Number:	**1308703**	Matrix:	10% (v/v) HNO_3	

Certified Value: 10,000 µg/mL ± 30 µg/mL

Rec'd 051413

The Certified value is based on gravimetric and volumetric preparation, and confirmed against SRM 3101a (lot number 060502) by inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.

Density: 1.103 g/mL ± 0.002 g/mL @ 23.1°C

Uncertified Values:

Trace Metal Impurity Scan: The data reported are based upon a scan of this specific lot at 10,000 µg/mL via ICP analysis. The values are reported in µg/L.

Ag	<	0.1	Cu	<	0.5	Li	<	0.1	Rb	<	0.1	Th	<	0.1
Al		M	Dy	<	0.1	Lu	<	0.1	Re	<	0.1	Ti	<	5
As	<	0.3	Er	<	0.1	Mg	<	3	Rh	<	0.1	Tl	<	0.1
Au	<	0.1	Eu	<	0.1	Mn	<	10	Ru	<	0.1	Tm	<	0.1
B	<	10	Fe		50	Mo	<	0.1	Sb	<	0.1	U	<	0.5
Ba	<	0.1	Ga	<	0.1	Na	<	10	Sc	<	0.1	V	<	0.3
Be	<	0.1	Gd	<	0.1	Nb	<	0.1	Se	<	0.5	W	<	0.1
Bi	<	0.1	Ge	<	0.1	Nd	<	0.1	Si	<	10	Y	<	0.1
Ca		40	Hf	<	0.1	Ni	<	0.1	Sm	<	0.1	Yb	<	0.1
Cd	<	0.1	Ho	<	0.1	Os	<	0.1	Sn	<	5	Zn	<	20
Ce	<	0.1	In	<	0.1	Pb	<	0.3	Sr	<	0.1	Zr	<	0.1
Co	<	0.3	Ir	<	0.1	Pd	<	0.1	Ta	<	0.1			
Cr	<	5	K	<	10	Pr	<	0.1	Tb	<	0.1			
Cs	<	0.1	La	<	0.1	Pt	<	0.1	Te	<	0.1			

Preparation Information:

The standard solution is prepared using high purity materials and assayed by analytical methods for conformity prior to use. This standard was prepared using the methods developed at NIST for SRM Spectrometric Standard Solutions under appropriate laboratory conditions.

Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. This testing includes, but is not limited to, the effect of temperature and packaging on the product.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

Intended Use:

This Certified Reference Material (CRM) is intended for use as a calibration standard for the quantitative determination of aluminum, calibration of instruments such as ICPOES, ICPMS, AAS and XRF, and validation of analytical methods. It also can be used in EPA, ASTM and other methods.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the NBS 602 method.

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards:**
The Calibration Standard is directly traceable to SRM 3100 Series Spectrometric Standard Solutions.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for eighteen months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**March 27, 2013**
Shipped Date:	**May 9, 2013**
Expiration Date:	**November 9, 2014**
Certificate Issue Date:	**April 1, 2013**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Vanny T. Yib,
Inorganic Laboratory Manager

ISO Guide 34:2009 (RMP) Accreditation
Certificate Number AR-1436

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

Section 1. Product and Company Identification

Product Identification: 10,000 µg/mL Aluminum in 10% HNO_3
MSDS Number: 10M1-1
Recommended Use: For Laboratory Use.
Company Identification: High-Purity Standards
P.O. Box 41727
Charleston, SC 29423
Telephone: (843) 767-7900
FAX: (843) 767-7906
In case of emergency call INFOTRAC: 800-535-5053

Section 2. Hazard Identification

Classification:
Skin Corrosion/Irritation, Category 1B
Serious Eye Damage/ Eye Irritation, Category 1
Labeling:

Symbol:
Signal Word: Danger.
Hazard Statement: Causes severe skin burns and eye damage. Causes serious eye damage.
Precautionary Statement: Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling.

Section 3. Composition

Component	CAS/EINECS Registry #	Percent Concentration
Aluminum	7429-90-5/231-072-3	1
Nitric Acid	7697-37-2/ 231-714-2	10
Water, deionized	7732-18-5/ 231-791-2	Balance

Section 4. First Aid Measures

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Call a physician if irritation develops.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a physician. May cause nausea, vomiting, and diarrhea.
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
Target Organs: Eyes, skin.

Section 5. Fire Fighting Measures

Fire & Explosion hazards: While nitric acid is not combustible, it is a strong oxidizing agent that can react with combustible materials; however, it is present in limited quantities in this solution. NO_x compounds can be released in case of fire.

Extinguishing Media: Use any extinguishing media that is suitable for the surrounding area. Use a water spray to dilute nitric acid and to absorb liberated nitrogen oxides.

Specific Methods: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Section 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Do not allow to enter drainage systems or water ways. Dike area and dilute spill with water and neutralize with soda ash, limestone, etc. Place the neutralized material into containers suitable for eventual disposal, reclamation, or destruction. Always dispose of in accordance with local regulations.

Section 7. Handling and Storage

Store in a cool, dry, ventilated storage area with acid resistant floors and good drainage. Keep out of direct sunlight and away from heat, water, and incompatible materials. When diluting, the acid should always be added slowly to water and in small amounts. Refer to Section 8 for personal handling instructions.

Section 8. Exposure Controls and Personal Protection

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep any buildup of airborne contaminants below their respective threshold limit value. Ensure the availability of eyewash stations and safety showers.

Respiratory Protection: Provide approved respiratory apparatus for non-routine or emergency use. Use an approved vapor respirator when the vapor or mist concentrations are high. If necessary, refer to the NIOSH document Guide to the Selection and Use of Particulate Respirators Certified under 42 CFR 84 for selection and use of respirators certified by NIOSH.

Personal Protection: Wear proper gloves, safety glasses with side shields, lab coat/apron.

Exposure Limits:

Component	ACGIH TLV	OSHA PEL
Aluminum	10 mg/m^3	15 mg/m^3
Nitric Acid	2 mg/kg	5 mg/m^3

Section 9. Physical and Chemical Properties

Physical State: Liquid
Color: Clear, colorless liquid
Odor: Odorless to a faint pungent odor
Odor threshold: None
pH: <2
Melting point: N/A
Freezing Point: N/A
Boiling Point: Approximately 100°C

Flash point: N/A
Evaporation rate: N/A
Flammability: N/A
Explosion limits: N/A
Vapor Pressure (mm): N/A
Vapor Density (air+1): N/A
Relative density: (H_2O = 1): Approximately 1.0
Solubility in H_2O: Complete
Auto ignition temperature: N/A
Decomposition temperature: N/A
Molecular Weight: 26.98 (Al)

Section 10. Stability and Reactivity

Stability Indicator: YES
Conditions to Avoid: Metals, chlorine, organic materials, strong alkali, cyanides.
Incompatibles: Strong reducing agents.
Hazardous Decomposition Products: NO_x compounds including nitric oxide (NO), nitrogen dioxide (NO_2), nitrous oxide (N_2O) and nitric acid mist or vapor.
Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

May affect skin, mucous membranes and eyes. Swallowing may lead to a negative effect on mouth and throat and to the risk of perforation or the corrosion of esophagus and stomach.
RTECS#
HNO_3; QU5775000
Al; BD0330000

LD_{LO} Oral, Human: (Nitric Acid) 430 mg/kg.
LD_{50} Oral, Rat: (Aluminum) >5000 mg/kg

Section 12. Ecological Information

Ecotoxicological information: Do not allow material to reach ground water, water bodies, or sewage system.

Section 13. Disposal Considerations

General: Follow Federal, state and local regulations for waste.

Section 14. Transport Information

D.O.T. Classification: Hazardous by IATA and 49CFR regulations (based on concentration of acid).
D.O.T. Shipping Name: Corrosive liquid, Acidic, Inorganic, n.o.s. (Nitric Acid Solution)
D.O.T. Hazard Class: 8
U.N./N.A. Number: 3264
Packing Group: II
D.O.T. Label: Corrosive (8)

Section 15. Regulations (Not meant to be all inclusive-selected regulation listed)

TSCA Status: Components of this solution are listed on the TSCA Inventory.
RCRA Status: No.
SARA: Subject to the reporting requirements of Section 313 of SARA Title III and of 40 CFR 372
Risk Phrases: R36/38 Irritating to eyes and skin.
Safety Phrases: S36/37/39 Wear suitable protective clothing, gloves and eye/face protection
WHMIS Information (Canada): E: Corrosive

Section 16. Other Information

HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel only. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The SDS was prepared carefully and represents the best data currently available to us; however, HPS does not certify the data on the SDS. Certified values for this material are given only on the Certificate of Analysis.

Theodore C. Rains, Ph.D.

HIGH-PURITY STANDARDS
www.highpuritystandards.com
P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

3J 05001

Product Description:

Part Number:	**SM-770-028**
	Solution A
Lot Number:	**1326610**
Matrix:	2% HNO_3
Purity:	99.995% - 99.9999%

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
As	1000 ± 10	3103a	100818	Mn	1000 ± 10	3132	050429
Ba	1000 ± 6	3104a	070222	Mo	1000 ± 6	3134	891307
Be	1000 ± 10	3105a	090514	V	1000 ± 6	3165	992706
Co	1000 ± 5	3113	000630				

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2

* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials. Highest purity source materials were purchased from qualified vendors per ISO 9001:2008 guidelines and assayed by ICP-OES for conformity prior to use. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**September 23, 2013**
Shipped Date:	**September 25, 2013**
Expiration Date:	**September 25, 2014**
Certificate Issue Date:	**September 23, 2013**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Part Number:	**SM-770-028**
	Solution B
Lot Number:	**1326611**
Matrix:	20% HNO_3
Purity:	99.99%

3J05002

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#
Fe	25000 ± 125	3126a	051031

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2

* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials. Highest purity source materials were purchased from qualified vendors per ISO 9001:2008 guidelines and assayed by ICP-OES for conformity prior to use. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**September 23, 2013**
Shipped Date:	**September 25, 2013**
Expiration Date:	**September 25, 2014**
Certificate Issue Date:	**September 23, 2013**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Angel Sellers
Quality Manager

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HIGH-PURITY STANDARDS
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P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

4D06003

Product Description:

Name:	ICP Analytical Mixture 15
Part Number:	**ICP-AM-15**
Lot Number:	**1331807**
Matrix:	5% HNO_3
Purity:	99.98% - 99.999%

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
Ca	10000 ± 60	3109a	050825	K	10000 ± 100	*3141a*	*051220*
Mg	10000 ± 60	3131a	050302	Na	10000 ± 60	3152a	120715

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.

* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally manufactured from CRM single element solutions that were prepared using the methods developed at NIST for SRM Spectrometric Standard Solutions under appropriate laboratory conditions. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. This testing includes, but is not limited to, the effect of temperature and packaging on the product.

Intended Use:

The CRM is intended for use as a calibration standard and QC control for instruments such as ICPOES, ICPMS, AAS and XRF, and validation of analytical methods. It also can be used in EPA, ASTM and other methods.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**

The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.

The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542.

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**November 14, 2013**
Shipped Date:	**3/12/2014**
Expiration Date:	**3/12/2015**
Certificate Issue Date:	**December 11, 2013**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

ISO Guide 34:2009 (RMP) Accreditation
Certificate Number AR-1436

Angel Sellers
Quality Manager

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Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Part Number: **SM-770-027**
Lot Number: **1410802**
Matrix: 5% HNO_3
Purity: 99.99% - 99.9995%

4E12003

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
Cd	1000 ± 5	3108	060531	Se	1000 ± 10	3149	100901
Cr	1000 ± 5	3112a	030730	Ag	100.0 ± 0.5	3151	992212
Cu	1000 ± 5	3114	011017	Tl	1000 ± 5	3158	993012
Pb	1000 ± 6	3128	101026	Zn	1000 ± 5	3168a	120629
Ni	1000 ± 5	3136	120619				

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2

* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials. Highest purity source materials were purchased from qualified vendors per ISO 9001:2008 guidelines and assayed by ICP-OES for conformity prior to use. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**April 18, 2014**
Shipped Date:	**April 22, 2014**
Expiration Date:	**April 22, 2015**
Certificate Issue Date:	**April 21, 2014**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Angel Sellers
Quality Manager

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Charleston, SC 29423
Phone: (843) 767-7900
Fax: (843) 767-7906

Certificate of Analysis

Product Description:

Part Number:	SM-770-030
Lot Number:	**1410803**
Matrix:	0.5% HF + 5% HNO_3
Purity:	99.98% - 99.9999%

4E12004

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
Sb	1000 ± 6	3102a	061229	Sn	1000 ± 6	3161a	070330
Bi	1000 ± 6	3106	991212	Ti	1000 ± 6	3162a	060808
B	1000 ± 5	3107	070514				

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2

* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials. Highest purity source materials were purchased from qualified vendors per ISO 9001:2008 guidelines and assayed by ICP-OES for conformity prior to use. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**April 18, 2014**
Shipped Date:	**April 22, 2014**
Expiration Date:	**April 22, 2015**
Certificate Issue Date:	**April 21, 2014**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Angel Sellers
Quality Manager

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ERA
A Waters Company

Reference Materials

4F19053 SS SAB 6-19-14

Certificate of Analysis

Product: Metals in Soil
Catalog Number: 540
Lot No. D082-540
Certificate Issue Date: September 03, 2013
Expiration Date: January 31, 2017
Revision Number: Original

CERTIFICATION

Parameter	Total Concentration	Certified Value[1]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	48500	8740	4.17	4680 - 12800	3640 - 13800
Antimony	249	108	18.8	D.L. - 232	24.8 - 275
Arsenic	175	151	5.32	122 - 181	107 - 196
Barium	738	262	5.99	217 - 307	193 - 331
Beryllium	149	133	5.26	109 - 157	99.9 - 166
Boron	149	122	5.46	89.3 - 155	73.2 - 171
Cadmium	174	152	6.19	124 - 179	111 - 192
Calcium	11800	6400	5.81	5260 - 7540	4730 - 8060
Chromium	149	117	6.36	92.9 - 141	81.5 - 152
Cobalt	87.9	68.7	5.71	57.0 - 80.4	51.1 - 86.4
Copper	80.7	68.6	11.9	55.5 - 81.8	50.2 - 88.6
Iron	29800	12300	17.5	4950 - 19700	3750 - 20900
Lead	293	254	5.44	207 - 301	192 - 317
Magnesium	5820	3600	3.84	2760 - 4440	2460 - 4740
Manganese	852	563	6.38	458 - 667	436 - 690
Mercury	5.90	5.76	14.7	4.10 - 7.41	2.94 - 8.57
Molybdenum	98.0	78.5	6.86	59.8 - 97.2	54.1 - 110
Nickel	370	315	5.44	259 - 371	234 - 399
Potassium	19500	3040	6.32	2140 - 3940	1900 - 4170
Selenium	185	162	4.36	125 - 198	109 - 214
Silver	50.1	44.3	18.6	33.0 - 55.6	29.4 - 59.3
Sodium	10100	746	10.8	535 - 957	424 - 1070
Strontium	259	112	10.9	89.2 - 135	78.8 - 145
Thallium	298	259	8.17	204 - 315	180 - 338

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Sodium	746	746	100	148	-	-
Strontium	112	112	100	97	-	-
Thallium	259	259	100	184	-	-
Tin	113	113	100	122	-	-
Titanium	256	256	100	120	-	-
Vanadium	116	116	100	171	-	-
Zinc	306	306	100	197	-	-

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CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 653.01

ACCREDITED Reference Material Producer Certificate 653.02

2.0 **DESCRIPTION OF CRM** **Stock Solution**

Catalog No.: CLPP-ICS-A

Lot Number: **G2-MEB491156**

Matrix: 2% HNO3(v/v)

3L30007

5,000 µg/mL ea:
Al, Ca, Mg,

2,000 µg/mL ea:
Fe

3.0 *CERTIFIED* VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	4,996 ± 31 µg/mL	Calcium, Ca	4,996 ± 31 µg/mL	Iron, Fe	1,998 ± 10 µg/mL
Magnesium, Mg	4,996 ± 32 µg/mL				

Certified Density: 1.084 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements

Uncertainty (±) = $2\,[\,\Sigma(s_i)^2\,]^{1/2}$

2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL

Custom-Grade solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Al		M	Dy	< 0.000300	O	Li	0.010000	M	Pr	< 0.000300	M	Te	< 0.030004
M	Sb	< 0.003000	M	Er	< 0.000300	M	Lu	< 0.000100	M	Re	< 0.001000	M	Tb	< 0.000300
M	As	< 0.010001	M	Eu	< 0.000300	s	Mg		M	Rh	< 0.001000	M	Tl	< 0.001000
O	Ba	< 0.000900	M	Gd	< 0.000600	O	Mn	0.010000	M	Rb	< 0.001000	M	Th	< 0.000100
O	Be	< 0.000300	M	Ga	< 0.002000	O	Hg	< 0.005000	M	Ru	< 0.002000	M	Tm	< 0.000300
M	Bi	< 0.002000	i	Ge		M	Mo	< 0.009001	M	Sm	< 0.000600	M	Sn	< 0.002000
O	B	< 0.005000	O	Au	< 0.008000	M	Nd	< 0.002000	O	Sc	< 0.000300	O	Ti	< 0.005000
M	Cd	< 0.000900	M	Hf	< 0.001000	O	Ni	< 0.002300	M	Se	< 0.008001	M	W	< 0.010001
s	Ca		M	Ho	< 0.000100	M	Nb	< 0.003000	O	Si	< 0.003400	M	U	< 0.000100
M	Ce	< 0.000100	M	In	< 0.006001	n	Os		M	Ag	< 0.002000	O	V	< 0.002700
M	Cs	< 0.000300	M	Ir	< 0.005001	M	Pd	< 0.005001	O	Na	0.040000	M	Yb	< 0.000100
O	Cr	< 0.003000	s	Fe		O	P	< 0.005000	O	Sr	0.100000	O	Y	< 0.000700
O	Co	< 0.003000	M	La	< 0.002000	M	Pt	< 0.002000	n	S		O	Zn	< 0.005000
O	Cu	< 0.004000	M	Pb	< 0.004001	O	K	< 0.002000	M	Ta	< 0.003000	M	Zr	< 0.005001

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep Tightly sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- SAI Global File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: October 29, 2013

Expiration Date: EXPIRES 01 2015

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Zach Saunders Product Documentation Technician	Zachary Saunders
Certificate Approved By:	Brian Alexander PhD., Technical Process Director	Brian Alexander
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	Paul R Gaines

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CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 863.01

ACCREDITED Reference Material Producer Certificate 863.02

2.0 **DESCRIPTION OF CRM** Stock Solution

Catalog No.: CLPP-ICS-B4

Lot Number: **F2-MEB427129**

Matrix: 5% HNO3(v/v)

3610029

100 µg/mL ea:
Cd, Ni, Zn,

60 µg/mL ea:
Sb,

50 µg/mL ea:
Ba, Be, Co, Cr3, Cu, Mn, V,

20 µg/mL ea:
Ag,

10 µg/mL ea:
As, Tl,

5 µg/mL ea:
Pb, Se

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Antimony, Sb	60.02 ± 0.45 µg/mL	Arsenic, As	10.01 ± 0.06 µg/mL	Barium, Ba	50.04 ± 0.34 µg/mL
Beryllium, Be	50.04 ± 0.34 µg/mL	Cadmium, Cd	100.1 ± 0.6 µg/mL	Chromium+3, Cr3	50.03 ± 0.35 µg/mL
Cobalt, Co	50.05 ± 0.32 µg/mL	Copper, Cu	50.04 ± 0.33 µg/mL	Lead, Pb	5.002 ± 0.038 µg/mL
Manganese, Mn	50.04 ± 0.32 µg/mL	Nickel, Ni	100.1 ± 0.7 µg/mL	Selenium, Se	5.006 ± 0.034 µg/mL
Silver, Ag	20.01 ± 0.13 µg/mL	Thallium, Tl	10.01 ± 0.06 µg/mL	Vanadium, V	50.04 ± 0.35 µg/mL
Zinc, Zn	100.1 ± 0.6 µg/mL				

Certified Density: 1.027 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

- "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#	ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212	Ag	Volhard	999b	999b
As	Calculated		See Sec. 4.2	As	ICP Assay	3103a	010713
Ba	Gravimetric		See Sec. 4.2	Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2	Be	ICP Assay	3105a	892707
Cd	ICP Assay	3108	060531	Cd	EDTA	928	928
Co	ICP Assay	3181	000630	Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2	Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017	Cu	EDTA	928	928
Mn	ICP Assay	3132	050429	Mn	EDTA	928	928
Ni	ICP Assay	3136	000612	Ni	EDTA	928	928
Pb	ICP Assay	3128	030721	Pb	EDTA	928	928
Sb	Calculated		See Sec. 4.2	Sb	ICP Assay	3102A	061229
Se	Calculated		See Sec. 4.2	Se	ICP Assay	3149	992106
Tl	Calculated		See Sec. 4.2	Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706	V	EDTA	928	928
Zn	ICP Assay	3168a	080123	Zn	EDTA	928	928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an A2LA accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- QMI File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: July 19, 2012

Expiration Date: EXPIRES 01 02 2014

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Stephan Blaakman Product Documentation Technician	
Certificate Approved By:	Brian Alexander PhD., Quality Control Supervisor	
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Name:	**Compuchem Spex-Revised**
Part Number:	**SM-770-026**
	Solution A
Lot Number:	**1410805**
Matrix:	1% HF + 2% HNO_3
Purity:	99.95% - 99.9999%

4E 12005

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
Bi	1000 ± 5	3106	991212	Sn	1000 ± 6	3161a	070330
B	1000 ± 5	3107	070514	Ti	1000 ± 6	3162a	060808
Mo	1000 ± 6	3134	891307				

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2

* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials. Highest purity source materials were purchased from qualified vendors per ISO 9001:2008 guidelines and assayed by ICP-OES for conformity prior to use. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**April 18, 2014**
Shipped Date:	**April 22, 2014**
Expiration Date:	**April 22, 2015**
Certificate Issue Date:	**April 21, 2014**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

3L09034

Product Description:

Name:	Barium	Source Material:	Barium Nitrate
Part Number:	**10M4-1**	Material Purity:	99.9995%
Lot Number:	**1227119**	Matrix:	2% (v/v) HNO_3

Certified Value: 10,000 µg/mL ± 40 µg/mL

The Certified value is based on gravimetric and volumetric preparation, and confirmed against SRM 3104a (lot number 070222) by inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.

Density: 1.020 g/mL ± 0.002 g/mL @ 22.7°C

Uncertified Values:

Trace Metal Impurity Scan: The data reported are based upon a scan of this specific lot at 10,000 µg/mL via ICP analysis. The values are reported in µg/L.

Ag	<	0.1	Cu	<	0.5	Li	<	0.1	Rb	<	0.1	Th	<	0.1
Al	<	0.5	Dy	<	0.1	Lu	<	0.1	Re	<	0.1	Ti	<	10
As	<	0.3	Er	<	0.1	Mg	<	3	Rh	<	0.1	Tl	<	0.1
Au	<	0.1	Eu	<	0.1	Mn	<	0.5	Ru	<	0.1	Tm	<	0.1
B	<	5	Fe	<	10	Mo	<	0.1	Sb	<	0.1	U	<	0.5
Ba		M	Ga	<	0.1	Na	<	15	Sc	<	0.1	V	<	0.3
Be	<	0.1	Gd	<	0.1	Nb	<	0.1	Se	<	0.5	W	<	0.1
Bi	<	0.1	Ge	<	0.1	Nd	<	0.1	Si	<	10	Y	<	0.1
Ca	<	5	Hf	<	0.1	Ni	<	0.1	Sm	<	0.1	Yb	<	0.1
Cd	<	1	Ho	<	0.1	Os	<	0.1	Sn	<	5	Zn	<	0.5
Ce	<	0.1	In	<	0.1	Pb	<	0.3	Sr		20	Zr	<	0.1
Co	<	2	Ir	<	0.1	Pd	<	0.1	Ta	<	0.1			
Cr	<	0.5	K	<	5	Pr	<	0.1	Tb	<	0.1			
Cs	<	0.1	La	<	15	Pt	<	0.1	Te	<	0.1			

Preparation Information:

The standard solution is prepared using high purity materials and assayed by analytical methods for conformity prior to use. This standard was prepared using the methods developed at NIST for SRM Spectrometric Standard Solutions under appropriate laboratory conditions.

Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. This testing includes, but is not limited to, the effect of temperature and packaging on the product.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

Intended Use:

This Certified Reference Material (CRM) is intended for use as a calibration standard for the quantitative determination of barium, calibration of instruments such as ICPOES, ICPMS, AAS and XRF, and validation of analytical methods. It also can be used in EPA, ASTM and other methods.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the NBS 602 method.

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards:**
The Calibration Standard is directly traceable to SRM 3100 Series Spectrometric Standard Solutions.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for eighteen months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**September 27, 2012**
Shipped Date:	**11/27/2013**
Expiration Date:	**5/27/2015**
Certificate Issue Date:	**October 15, 2012**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Vanny T. Yib,
Inorganic Laboratory Manager

ISO Guide 34:2009 (RMP) Accreditation
Certificate Number AR-1436

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

4678001

Product Description:

Name:	Mercury	Source Material:	Mercury Metal
Part Number:	**20 33-1**	Material Purity:	99.9998%
Lot Number:	**1418809**	Matrix:	5% (v/v) HNO3

Certified Value: 20.0 µg/mL ± 0.4 µg/mL

The Certified value is based on gravimetric and volumetric preparation, and confirmed against SRM 3133 (lot number 061204) by inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.

Preparation Information:

The standard solution is prepared using high purity materials and assayed by analytical methods for conformity prior to use. This standard was prepared using the methods developed at *NIST for SRM Spectrometric* Standard Solutions under appropriate laboratory conditions.

Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. This testing includes, but is not limited to, the effect of temperature and packaging on the product.

Intended Use:

This Certified Reference Material (CRM) is intended for use as a calibration standard for the quantitative determination of mercury, calibration of instruments such as ICPOES, ICPMS, AAS and XRF, and validation of analytical methods. It also can be used in EPA, ASTM and other methods.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542.

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards:**
The Calibration Standard is directly traceable to SRM 3100 Series Spectrometric Standard Solutions.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

INORGANIC VENTURES
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CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 853.01 — ACCREDITED Reference Material Producer Certificate 853.03

2.0 DESCRIPTION OF CRM — 1 µg/mL Mercury in 10% (v/v) HCl

Catalog Number:	MSHG-1PPM
Lot Number:	G2-HG02117
Starting Material:	Hg metal
Starting Material Purity (%):	99.9997
Starting Material Lot No:	1780
Matrix:	10% (v/v) HCl

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 0.9995 ± 0.0067 µg/mL

Certified Density: 1.020 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence interval using a coverage factor of k = 2.

Characterization of CRM by two independent methods	Characterization of CRM by one method
Certified Value, X_{CRM}, where two methods of characterization are used, is the weighted mean of the two results = $[(w_a)(X_a) + (w_b)(X_b)]$ X_a is the mean of Assay Method A with standard uncertainty $U_{char\ a}$. X_b is the mean of Assay Method B with standard uncertainty $U_{char\ b}$. w_a and w_b = The weighting factors for each method calculated using the inverse square of the variance: $w_a = (1/U_{char\ a})^2 / ((1/U_{char\ a})^2 + (1/U_{char\ b})^2))$; $w_b = (1/U_{char\ b})^2 / ((1/U_{char\ a})^2 + (1/U_{char\ b})^2))$ **CRM Expanded Uncertainty (±) = $U_{CRM} = k\ (U^2_{char\ a\&b} + u^2_{bb} + u^2_{lts} + u^2_{sts})^{1/2}$** $U_{char\ a\&b} = [(w_a)^2 (U_{char\ a})^2 + (w_b)^2 (U_{char\ b})^2]^{0.5}$; $U_{char\ a}$ and $U_{char\ b}$ are the square root of the sum of the squares of the errors from characterization which include instrumental measurement, density, NIST SRM uncertainty, weighing, and volume; k, coverage factor = 2 in all cases at Inorganic Ventures; u_{bb} = bottle to bottle homogeneity standard uncertainty; u_{lts} = long term stability standard uncertainty (storage); u_{sts} = short term stability standard uncertainty (transportation).	**Certified Value, X_{CRM}, where one method of characterization is used, is the mean of individual results:** X_a = Mean X_a is the mean of Assay Method A with standard uncertainty $U_{char\ a}$. **CRM Expanded Uncertainty (±) = $U_{CRM} = k\ (U^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{sts})^{1/2}$** $U_{char\ a}$ is the square root of the sum of the squares of the errors from characterization which include instrumental measurement, density, NIST SRM uncertainty, weighing, and volume; k, coverage factor = 2 in all cases at Inorganic Ventures; u_{bb} = bottle to bottle homogeneity standard uncertainty; u_{lts} = long term stability standard uncertainty (storage); u_{sts} = short term stability standard uncertainty (transportation).

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

- "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
- This product is Traceable to NIST via an unbroken chain of comparisons to the following NIST SRMs:

4.1 ELEMENT	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	061204
Hg	EDTA	928	928

4.2 **BALANCE CALIBRATION** - All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 **THERMOMETER CALIBRATION** - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

Standard solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	< 0.0041130	M	Cu	< 0.0123390	M	La	< 0.0010280	M	Pr	< 0.0006170	M	Ta	< 0.0143950
O	Al	-	M	Dy	< 0.0123390	O	Li	< 0.0000200	M	Pt	< 0.0041130	M	Tb	< 0.0006170
M	As	< 0.0205640	M	Er	< 0.0102820	M	Lu	< 0.0008230	M	Rb	< 0.0020560	M	Te	< 0.0616930
M	Au	< 0.0061690	M	Eu	< 0.0061690	O	Mg	0.0000010	M	Re	< 0.0020560	M	Th	< 0.0020560
M	B	< 0.1439500	O	Fe	< 0.0011000	M	Mn	< 0.0082260	M	Rh	< 0.0020560	M	Ti	< 0.1028220
M	Ba	< 0.0205640	M	Ga	< 0.0020560	M	Mo	< 0.0041130	M	Ru	< 0.0041130	O	Tl	< 0.0060000
M	Be	< 0.0010280	M	Gd	< 0.0020560	O	Na	-	O	S	< 0.0250000	M	Tm	< 0.0008230
M	Bi	< 0.0008230	O	Ge	< 0.0180000	M	Nb	< 0.0010280	M	Sb	< 0.0010280	M	U	< 0.0041130
O	Ca	0.0000020	M	Hf	< 0.0041130	M	Nd	< 0.0041130	M	Sc	< 0.0205640	M	V	< 0.0041130
O	Cd	< 0.0046000	s	Hg		O	Ni	< 0.0010000	M	Se	< 0.0164510	M	W	< 0.0205640
M	Ce	< 0.0102820	M	Ho	< 0.0010280	n	Os		O	Si	< 0.0034000	M	Y	< 0.0822570
M	Co	< 0.0061690	M	In	< 0.0205640	O	P	< 0.0026000	M	Sm	< 0.0020560	M	Yb	< 0.0020560
M	Cr	< 0.0102820	M	Ir	< 0.0102820	M	Pb	< 0.0061690	M	Sn	< 0.0102820	M	Zn	< 0.0411290
M	Cs	< 0.0006170	O	K	< 0.0020000	O	Pd	< 0.0038000	M	Sr	< 0.0010280	M	Zr	< 0.0102820

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.
Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59; +2; 4 ; Hg(OH)(aq) 1+
Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water. .
Stability - 2-100 ppb levels **not stable** in 1% HNO3 / LDPE container, ***stable*** in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.
Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	atom	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	ion	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	atom	Ta, Co, Th ,Rh , Fe, U
ICP-MS 202 amu	9 ppt	n/a	M+	186W16O

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- SAI Global File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- *Chemical Testing* - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 *10CFR50* Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- *Reporting* Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: August 22, 2013

Expiration Date: EXPIRES 01 FEB 2015

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:	Zach Saunders Product Documentation Technician	Zachary Saunders
Certificate Approved By:	Elizabeth Day Quality Assurance Specialist	Elizabeth A. Day
Certifying Officer:	Paul Gaines PhD., Senior Technical Director	Paul R Gaines

Manual Integration Report

CompuChem
A Division Of
Liberty Analytical Corp.

Manual Integration Summary

Client:	**Project:**
Work Order:	**Case:**
Sdg:	

Analysis: **Sample Type:**

Lab Id: **Client Id:** **Instrument:**

Analyte	Type	M Flag

Sample Total:

Total Manual Integrations:

Internal Chain of Custody

7/31/2013

Dept: PM

Batch: 4081101 10/08 **Status:** Batched

Metals Internal Chain of Custody Sheet

Analysis: 6010C METALS / Reactive Cyanide/Reactive Sulfide

Lab Id	Client_Id	Received	Container	Preparation	Preservative	Matrix		
1408019-01 C	P001-COMP01-LW	08/07/14	4c_8OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil		
1408019-02 C	P001-DR0314-LW-	08/07/14	4c_8OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil		
1408019-03 C	P001-PL0202-SW-	08/07/14	4c_8OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil		
1408019-04 C	P001-DR0310-LW-	08/07/14	4c_8OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil		
1408019-05 C	P001-DR0312-LW-	08/07/14	4c_8OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil		
1408019-06 C	P001-DR0702-SW	08/07/14	4c_8OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil		
1408019-07 C	P001-DR0302-LW-	08/07/14	4c_8OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil		
1408019-08 C	P001-DR0501-LW-	08/07/14	4c_8OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil		
1408019-10 C	P001-UST01-LW-0	08/07/14	4c_8OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil		
1408022-01 D	TS-1	08/08/14	4c_8OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil		
1408022-02 D	BF-1	08/08/14	4c_8OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil		
1408024-01 F	P001-S002-0002-0	08/08/14	4c_8OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil		
1408024-02 L	P001-S003-0002-0	08/08/14	4c_8OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil		
1408024-03 F	P001-S003-0002-0	08/08/14	4c_8OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil		
1408024-04 F	P001-S006-0002-0	08/08/14	4c_8OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil		
1408024-05 F	P001-S001-0002-0	08/08/14	4c_8OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil		
1408024-07 B	P001-S005-0002-0	08/08/14	4c_8OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil		

1408017-01A Bowsch Creek 1000ml glass, cool

Cooler #1	8-11-14/0930	S. Bolton	8-11-14/0930
Relinquished By	Date/Time	Received By	Date/Time
S. Bolton	8-11-14/1715	Cooler #1	8-11-14/1715
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time