Appendix A
Tissue Sample Data
(Included on CD)

Appendix A Contents

Tissue Sample Laboratory Reports

Data Package ID	Samples
69229	GT12016M
	GT12018M
	GT12012M
	GT12014M
	GT12020M
69230	GT12016B
	GT12016L
	GT12018B
	GT12018L
	GT12012B
	GT12012L
	GT12014B
	GT12014L
	GT12020B
	GT12020L
69254	GT12021B
	GT12021L
69255	GT12021M
69287	GT12022M
	GT12023M
	GT12024M
69288	GT12022B
	GT12022L
	GT12023B
	GT12023L
	GT12024B
	GT12024L
69306	GT12025M
	GT12026M
69307	GT12025B
	GT12025L
	GT12026B
	GT12026L

Appendix A Contents (*continued*)

Tissue Sample Laboratory Reports

Data Package ID	Samples
69340	GT12027B
	GT12027L
	GT12028B
	GT12028L
	GT12029B
	GT12029L
69341	GT12027M
	GT12028M
	GT12029M
69366	GT12030B
	GT12030L
	GT12031B
	GT12031L
69367	GT12030M
	GT12031M
69412	GT12032B
	GT12032L
69413	GT12032M
69526	GT12033B
	GT12033L
69530	GT12033M
69677	GT13002M
	GT13003M
69676	GT13002B
	GT13002L
	GT13003B
	GT13003L

Laboratory Report

Parsons

Project #: 748350.02000 CSSA

ARF: 69229

Samples collected: November 3-5, 2012

APPL, Inc.

Data Validatable Package

for

Project #: 748350.02000 CSSA

ARF 69229

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LABORATORY NAME: *APPL, Inc.*

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Sample Data	19
Calibration Data	30
Raw Data	55

CASE NARRATIVE

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

Case Narrative

ARF: 69229

Project: 748350.02000 CSSA

California State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Texas Certificate Number: T104704242-10-3

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

The samples were received November 7, 2012, at 1.5°C. The samples were assigned Analytical Request Form (ARF) number 69229. The sample numbers and requested analyses were compared to the chains of custody. No exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
GT12016M	AY71473	MISC	11/03/12	11/07/12
GT12018M	AY71474	MISC	11/03/12	11/07/12
GT12012M	AY71475	MISC	11/04/12	11/07/12
GT12014M	AY71476	MISC	11/04/12	11/07/12
GT12020M	AY71477	MISC	11/05/12	11/07/12

Percent moisture was determined using CLP 4.0.

EPA Method 6010B
Metals

Digestion Information:

The miscellaneous samples were homogenized and then digested according to EPA method 3050B. No exceptions were encountered. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed according to EPA method 6010B using a Perkin Elmer Optima 5300DV ICP.

Calibrations:

Calibrations were performed according to the method for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard. All calibration acceptance criteria were met.

Blanks:

No target metal was detected above the reporting limit (RL) in the method blank.

Spikes:

Laboratory Control Spike (LCS), post-digestion spike (PDS), and dilution test were used for quality assurance. All LCS acceptance criteria were met.

Sample GT12020M was selected by the laboratory as the Quality Control sample for the batch. The dilution test was not applicable. The PDS met acceptance criteria.

Summary:

No analytical exception is noted. The data generated are acceptable.

CERTIFICATION

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. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

11-21-12

Sharon Dehmlow, Laboratory Director / Date

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 69229

Client: **Parsons**
Address: **8000 Centre Park Drive Ste 200**
Austin, TX 78754
Attn: **Tammy Chang**
Phone: **512-719-6092** Fax: **512-719-6099**
Job: **748350.02000 CSSA**
PO #: **748350.30002 (prime *G012)**
Chain of Custody (Y/N): **Y** # **110612APPFA**
RAD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **7 DAYS**

Received by: **WLA**
Date Received: **11/07/12** Time: **11:15**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-6**
Chest Temp(s): **1.5°C**
Color: **A_FREZ**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Diane Anderson**
QC Report Type: **DVP4/AFCEE/ERPIMS/TX**
Due Date: **11/14/12**

Comments:
Prelim muscle (meat) data due in 7 calendar days; final report due in 21 calendar days.
pdf ARF to Tammy & Pam; send 1 DVP3 HC & send DVP3 & DVP4 on CD to Tammy.

Case Narrative. CSSA QAPP. Only report MS/MSD when requested.
Report results on APPL forms: U to the RL; report results in wet weight (without moisture correction)
Wait to do moisture analysis after metals analysis.
EDD: ERPIMS 4 Lab PC4 checked TXF to Pam.Ford@parsons.com

emailed revised login 11-9-12rp

Sample Distribution:
Metals: 5-$6010BDODS(Pb)
Wetlab: 5-MOIST
Other: 5-_M3050

Charges:

Invoice To:
PARSONS GOV'T SERV.
8000 Centre Park Drive Ste 200
Austin, TX 78754-5140
Attn: Ellen Felfe

	Client ID	APPL ID	Sampled	Analyses Requested
1.	GT12016M	AY71473M	11/03/12 08:00	$6010BDODS(Pb), MOIST
2.	GT12018M	AY71474M	11/03/12 09:20	$6010BDODS(Pb), MOIST
3.	GT12012M	AY71475M	11/04/12 10:30	$6010BDODS(Pb), MOIST
4.	GT12014M	AY71476M	11/04/12 17:45	$6010BDODS(Pb), MOIST
5.	GT12020M	AY71477M	11/05/12 16:45	$6010BDODS(Pb), MOIST

APPL Sample Receipt Form

ARF# **69229**

Sample	Container Type	Count	pH
AY71473	35 Plastic Bag	1	NA
AY71474	35 Plastic Bag	1	NA
AY71475	35 Plastic Bag	1	NA
AY71476	35 Plastic Bag	1	NA
AY71477	35 Plastic Bag	1	NA

Sample	Container Type	Count	pH

APPL - Receiving

From: Renee Patterson [rpatterson@applinc.com]
Sent: Wednesday, November 07, 2012 7:43 AM
To: receiving@applinc.com; 'Leonard Fong'
Subject: FW: animal tissue samples. to APPL
Attachments: 110612APPFA_SAMPLES.TXT; 110612_APPL.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Red Category

From: Chang, Tammy [mailto:Tammy.Chang@parsons.com]
Sent: Tuesday, November 06, 2012 7:03 PM
To: Renee Patterson; Diane Anderson; rwise; Jeremy Hale; Sharon Dehmlow
Cc: Ford, Pamela; de las Fuentes, Sandra; Burdey, Julie; Rembish, Steve J
Subject: FW: animal tissue samps. to APPL

APPL Staff:
You will receive these animal samples on Wed morning via FedEx. The field ID ending with "L" means liver, "M" means muscle, and "B" means bone. Only muscle samples need to be rushed, preferable with **7 calendar days**. Liver and bone samples have 21 calendar days TAT.
No need to determine %moisture for these samples, just report as is, down to RL.

I will be out of office tomorrow, but may be reached at 512-590-1126 (cell). Sandra will be in the office. Feel free to contact us if you have any question. Warning: samples may smell bad. Cooler should be open under the hood, just in case it smells.

Tammy

From: Elliott, Samantha
Sent: Tuesday, November 06, 2012 4:18 PM
To: Chang, Tammy; de las Fuentes, Sandra
Subject: RE: animal tissue samps. to APPL

Everything on these should be correct, see attached.

From: Chang, Tammy
Sent: Tuesday, November 06, 2012 3:54 PM
To: Elliott, Samantha; de las Fuentes, Sandra
Subject: RE: animal tissue samps. to APPL

Yes, I will.

Another reason to give different sample ID for different parts of boy is lab will run muscle with fast TAT, bone and liver with normal TAT.

Tammy

64229 1.5°C
64230

Camp Stanley Storage Activity Chain Of Custody

COC ID:	110612APPFA	Relinquish_Date:	11/6/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF
Job Number:	748350.02	Relinquish_Time:	3:30 PM	Carrier:	FedEx
Creation Date:	11/6/2012	Collection Team:	SE	Airbill Carrier:	876436444237
Task Manager	Steve Rembish	Sample Data Type	Screening	TAT:	7 Day TAT

Sampler(s): Sam Elliott
Sam Elliott

LOCID:	GT12016	LOGDATE:	11/3/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME:	8:00	SACODE:	N	SMCODE:	G	ABLOT:	SW6010B LEAD
SED:	0	FLDSAMPID	GT12016_110312_N0800					EBLOT:	Containers: 3
Remarks:									

LOCID:	GT12018	LOGDATE:	11/3/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME:	9:20	SACODE:	N	SMCODE:	G	ABLOT:	SW6010B LEAD
SED:	0	FLDSAMPID	GT12018_110312_N0920					EBLOT:	Containers: 3
Remarks:									

LOCID:	GT12012	LOGDATE:	11/4/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME:	10:30	SACODE:	N	SMCODE:	G	ABLOT:	SW6010B LEAD
SED:	0	FLDSAMPID	GT12012_110412_N1030					EBLOT:	Containers: 3
Remarks:									

LOCID:	GT12014	LOGDATE:	11/4/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME:	17:45	SACODE:	N	SMCODE:	G	ABLOT:	SW6010B LEAD
SED:	0	FLDSAMPID	GT12014_110412_N1745					EBLOT:	Containers: 3
Remarks:									

LOCID:	GT12020	LOGDATE:	11/5/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME:	16:45	SACODE:	N	SMCODE:	G	ABLOT:	SW6010B LEAD
SED:	0	FLDSAMPID	GT12020_110412_N1645					EBLOT:	Containers: 3
Remarks:									

Relinquished by: Sam Elliott Date 11/6/12 Time 1530
Recieved by: [signature] Date 11/7/12 Time 1115

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date _____ Time _____

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date _____ Time _____

69229

Camp Stanley Storage Activity Chain Of Custody

COC ID:	110612APPFA	Relinquish_Date:	11/6/2012	Cooler ID:	A	Sampler(s):	Sam Elliott -
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF		
Job Number:	748350.02000	Relinquish_Time:	3:30 PM	Carrier:	FedEx		
Creation Date:	11/6/2012	Collection Team:	SE	Airbill Carrier:	801561199790		
Task Manager:	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT		

LOCID:	GT12016B	LOGDATE:	11/3/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	8:00	SACODE:	N	SMCODE:	G	ABLOT:	SW6010B	LEAD
SED:	0	FLDSAMPID	GT12016B_110312_N0800					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12016L	LOGDATE:	11/3/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	8:00	SACODE:	N	SMCODE:	G	ABLOT:	SW6010B	LEAD
SED:	0	FLDSAMPID	GT12016L_110312_N0800					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12016M	LOGDATE:	11/3/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	8:00	SACODE:	N	SMCODE:	G	ABLOT:	SW6010B	LEAD
SED:	0	FLDSAMPID	GT12016M_110312_N0800					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12018B	LOGDATE:	11/3/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	9:20	SACODE:	N	SMCODE:	G	ABLOT:	SW6010B	LEAD
SED:	0	FLDSAMPID	GT12018B_110312_N0920					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12018L	LOGDATE:	11/3/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	9:20	SACODE:	N	SMCODE:	G	ABLOT:	SW6010B	LEAD
SED:	0	FLDSAMPID	GT12018L_110312_N0920					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12018M	LOGDATE:	11/3/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	9:20	SACODE:	N	SMCODE:	G	ABLOT:	SW6010B	LEAD
SED:	0	FLDSAMPID	GT12018M_110312_N0920					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12012B	LOGDATE:	11/4/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	10:30	SACODE:	N	SMCODE:	G	ABLOT:	SW6010B	LEAD
SED:	0	FLDSAMPID	GT12012B_110412_N1030					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12012L	LOGDATE:	11/4/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	10:30	SACODE:	N	SMCODE:	G	ABLOT:	SW6010B	LEAD
SED:	0	FLDSAMPID	GT12012L_110412_N1030					EBLOT:	Containers:	1
Remarks:										

Relinquished by:		Date	11/6/12	Time	1530	Relinquished by:		Date		Time		Relinquished by:	Date		Time
Recieved by:		Date	11/7/12	Time	1115	Recieved by:		Date		Time		Recieved by	Date		Time

Camp Stanley Storage Activity Chain Of Custody

COC ID:	110612APPFA	Relinquish_Date:	11/6/2012	Cooler ID:	A	Sampler(s):	San Elliott
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF		
Job Number:	748350.02000	Relinquish_Time:	3:30 PM	Carrier:	FedEx		
Creation Date:	11/6/2012	Collection Team:	SE	Airbill Carrier:	801561199790		
Task Manager:	Steve Rembish	Sample Data Type:	Definitive	TAT:	7 Day TAT		

LOCID: GT12012M LOGDATE: 11/4/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 10:30 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12012M_110412_N1030 EBLOT:
Containers: 1
Analysis Required: SW6010B LEAD
Remarks:

LOCID: GT12014B LOGDATE: 11/4/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 17:45 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12014B_110412_N1745 EBLOT:
Containers: 1
Analysis Required: SW6010B LEAD
Remarks:

LOCID: GT12014L LOGDATE: 11/4/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 17:45 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12014L_110412_N1745 EBLOT:
Containers: 1
Analysis Required: SW6010B LEAD
Remarks:

LOCID: GT12014M LOGDATE: 11/4/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 17:45 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12014M_110412_N1745 EBLOT:
Containers: 1
Analysis Required: SW6010B LEAD
Remarks:

LOCID: GT12020B LOGDATE: 11/5/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 16:45 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12020B_110512_N1645 EBLOT:
Containers: 1
Analysis Required: SW6010B LEAD
Remarks:

LOCID: GT12020L LOGDATE: 11/5/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 16:45 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12020L_110512_N1645 EBLOT:
Containers: 1
Analysis Required: SW6010B LEAD
Remarks:

LOCID: GT12020M LOGDATE: 11/5/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 16:45 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12020M_110512_N1645 EBLOT:
Containers: 1
Analysis Required: SW6010B LEAD
Remarks:

Relinquished by: E. Elliott Date: 11/6/12 Time: 1530
Recieved by: Date: 11/7/12 Time: 1115

Relinquished by: Date: Time:
Recieved by: Date: Time:

Relinquished by: Date: Time:
Recieved by: Date: Time:

COOLER RECEIPT FORM

1) Project: 749350.02000 CSSA Date Received: 11/7/12

2) Coolers: Number of Coolers: 1

3) (YES) NO Were coolers and samples screened for radioactivity?

4) (YES) NO Were custody seals on outside of cooler? How many? 1 Date on seal? 11/6/12

5) Name on seal? See Label

6) (YES) NO NA Were custody seals unbroken and intact at the time of arrival?

7) (YES) NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex

8) Shipping slip numbers: 1) 8015 6119 9790 2) _____ 3) _____

9) (YES) NO NA Was the shipping slip scanned into the database?

10) YES (NO) NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Ziploc in wet ice

12) YES NO (NA) For hand delivered samples was sufficient ice present to start the cooling process?

13) (YES) NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: A39267 Correction factor: 0

15) Cooler temp(s): 1) 1.5°C 2) _____ 3) _____ 4) _____ 5) _____ 6) _____ 7) _____ 8) _____

Chain of custody:

16) (YES) NO Was a chain of custody received?

17) (YES) NO Were the custody papers signed in the appropriate places?

18) (YES) NO Was the project identifiable from custody papers?

19) (YES) NO Did the chain of custody include date and time of sampling?

20) (YES) NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) (YES) NO Were container labels in good condition?

22) (YES) NO Was the client ID on the label?

23) (YES) NO Was the date of sampling on the label?

24) (YES) NO Was the time of sampling on the label?

25) (YES) NO Did all container labels agree with custody papers?

Sample Containers:

26) (YES) NO Were all containers sealed in separate bags?

27) (YES) NO Did all containers arrive unbroken?

28) YES (NO) Was there any leakage from samples?

29) YES (NO) Were any of the lids cracked or broken?

30) (YES) NO Were correct containers used for the tests indicated?

31) (YES) NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO (NA) Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea: _____

Smaller than a pea: _____

Preservation & Hold time:

33) (YES) NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO (NA) Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO (NA) Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO (NA) Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO (NA) Unpreserved VOA Vials received? _____

38) YES NO (NA) Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF? _____

Lab notified if pH was not adequate: _____

Deficiencies: _____

Signature of personnel receiving samples: _____ Second reviewer: _____

Signature of project manager notified: _____ Date and Time of notification: _____

Name of client notified: _____ Date and Time of notification: _____

Information given to client: _____

_____ by whom (Initials): _____

CUSTODY SEAL

APPL, Inc. (559) 275-2175

Initials _____

Date 11/6/12

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/08/12	11/09/12	#6010B-121108B-AY71477

Metals SC-Blank-REG MDLs
Printed: 11/20/12 9:00:48 AM

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.0	10.4	104	80-120	11/08/12	11/09/12	#6010B-121108B-AY71477

Comments: _____

METALS
Sample Data

APPL, INC.

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12016M
Sample Collection Date: 11/03/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69229
APPL ID: AY71473

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/08/12	11/09/12

Printed: 11/20/12 9:00:40 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 117
Sample ID: AY71473M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.58 g
Dilution:

Autosampler Location: 28
Date Collected: 11/09/12 7:35:20 PM
Data Type: Reprocessed on 11/11/12 1:48:08 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71473M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-103.2	-0.804	ug/L	0.4223	-0.031	mg/kg	0.0164	52.54%
Al 308.215	41.7	24.35	ug/L	7.908	0.944	mg/kg	0.3065	32.48%
As 188.979	4.0	0.797	ug/L	0.7090	0.031	mg/kg	0.0275	89.01%
B	44.7	11.52	ug/L	2.693	0.447	mg/kg	0.1044	23.37%
Ba 233.527	753.3	3.893	ug/L	0.1026	0.151	mg/kg	0.0040	2.64%
Be 313.107	-1005.8	-0.158	ug/L	0.0221	-0.006	mg/kg	0.0009	13.96%
Ca 315.887	13866.1	1152	ug/L	12.5	44.66	mg/kg	0.483	1.08%
Cd 214.440	125.4	0.268	ug/L	0.0633	0.010	mg/kg	0.0025	23.64%
Co 228.616	47.5	0.607	ug/L	0.1898	0.024	mg/kg	0.0074	31.27%
Cr 267.716	412.7	2.863	ug/L	0.0558	0.111	mg/kg	0.0022	1.95%
Cu 327.393	4515.9	42.79	ug/L	0.633	1.659	mg/kg	0.0246	1.48%
Fe 273.955	17983.2	656.5	ug/L	2.32	25.45	mg/kg	0.090	0.35%
K 766.490	159103.2	83750	ug/L	1100.0	3246	mg/kg	42.6	1.31%
Mg 285.213	109224.4	5281	ug/L	71.2	204.7	mg/kg	2.76	1.35%
Mn 257.610	248.8	4.095	ug/L	0.1188	0.159	mg/kg	0.0046	2.90%
Mo 202.031	37.5	0.998	ug/L	0.2801	0.039	mg/kg	0.0109	28.05%
Na 589.592	91533.6	7347	ug/L	86.0	284.8	mg/kg	3.33	1.17%
Ni 231.604	21.3	0.254	ug/L	0.2623	0.010	mg/kg	0.0102	103.38%
P 213.617	335114.2	48270	ug/L	422.0	1871	mg/kg	16.4	0.87%
Pb 220.353	-3.2	-0.209	ug/L	0.4983	-0.008	mg/kg	0.0193	238.80%
Sb 206.836	-4.3	-0.711	ug/L	0.5459	-0.028	mg/kg	0.0212	76.72%
Se 196.026	24.9	5.047	ug/L	0.6430	0.196	mg/kg	0.0249	12.74%
Sn 189.927	-39.2	-5.459	ug/L	0.5354	-0.212	mg/kg	0.0208	9.81%
Sr 421.552	1130.6	1.417	ug/L	0.0781	0.055	mg/kg	0.0030	5.51%
Ti 337.279	97.8	1.917	ug/L	0.2005	0.074	mg/kg	0.0078	10.46%
Tl 190.801	-3.0	-0.457	ug/L	0.5791	-0.018	mg/kg	0.0224	126.73%
V 292.402	-153.6	-0.850	ug/L	0.1836	-0.033	mg/kg	0.0071	21.61%
Zn 206.200	42474.8	436.5	ug/L	1.55	16.92	mg/kg	0.060	0.35%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12018M
Sample Collection Date: 11/03/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69229
APPL ID: AY71474

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/08/12	11/09/12

Printed: 11/20/12 9:00:40 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 118
Sample ID: AY71474M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.54 g
Dilution:

Autosampler Location: 29
Date Collected: 11/09/12 7:40:11 PM
Data Type: Reprocessed on 11/11/12 1:48:09 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71474M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-147.0	-1.145	ug/L	0.3424	-0.045	mg/kg	0.0135	29.90%
Al 308.215	8.7	5.292	ug/L	3.7101	0.208	mg/kg	0.1461	70.11%
As 188.979	1.6	0.325	ug/L	0.3052	0.013	mg/kg	0.0120	94.02%
B	38.6	10.08	ug/L	1.298	0.397	mg/kg	0.0511	12.88%
Ba 233.527	280.7	1.183	ug/L	0.0619	0.047	mg/kg	0.0024	5.23%
Be 313.107	-988.7	-0.155	ug/L	0.0133	-0.006	mg/kg	0.0005	8.56%
Ca 315.887	22027.3	1834	ug/L	29.6	72.22	mg/kg	1.166	1.61%
Cd 214.440	136.3	0.289	ug/L	0.0334	0.011	mg/kg	0.0013	11.53%
Co 228.616	52.5	0.675	ug/L	0.3961	0.027	mg/kg	0.0156	58.68%
Cr 267.716	330.0	2.286	ug/L	0.2486	0.090	mg/kg	0.0098	10.88%
Cu 327.393	3686.3	34.93	ug/L	0.457	1.375	mg/kg	0.0180	1.31%
Fe 273.955	16719.2	610.5	ug/L	4.55	24.04	mg/kg	0.179	0.74%
K 766.490	139136.6	73240	ug/L	1084.0	2883	mg/kg	42.7	1.48%
Mg 285.213	92837.8	4489	ug/L	59.0	176.7	mg/kg	2.32	1.31%
Mn 257.610	163.9	2.642	ug/L	0.1562	0.104	mg/kg	0.0062	5.91%
Mo 202.031	23.6	0.777	ug/L	0.2110	0.031	mg/kg	0.0083	27.16%
Na 589.592	139327.1	11210	ug/L	131.6	441.2	mg/kg	5.18	1.17%
Ni 231.604	-69.3	-1.106	ug/L	0.0687	-0.044	mg/kg	0.0027	6.21%
P 213.617	285066.6	41060	ug/L	553.2	1617	mg/kg	21.8	1.35%
Pb 220.353	135.7	8.844	ug/L	0.1279	0.348	mg/kg	0.0050	1.45%
Sb 206.836	-1.9	-0.310	ug/L	1.0415	-0.012	mg/kg	0.0410	335.69%
Se 196.026	22.1	4.483	ug/L	1.3866	0.176	mg/kg	0.0546	30.93%
Sn 189.927	-39.5	-5.504	ug/L	0.1628	-0.217	mg/kg	0.0064	2.96%
Sr 421.552	4078.9	4.465	ug/L	0.2158	0.176	mg/kg	0.0085	4.83%
Ti 337.279	86.7	1.696	ug/L	0.1417	0.067	mg/kg	0.0056	8.35%
Tl 190.801	-6.3	-0.948	ug/L	0.6448	-0.037	mg/kg	0.0254	68.05%
V 292.402	-151.2	-0.864	ug/L	0.3548	-0.034	mg/kg	0.0140	41.08%
Zn 206.200	130252.5	1336	ug/L	2.8	52.62	mg/kg	0.111	0.21%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12012M
Sample Collection Date: 11/04/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69229
APPL ID: AY71475

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/08/12	11/09/12

Printed: 11/20/12 9:00:40 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 119
Sample ID: AY71475M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.56 g
Dilution:

Autosampler Location: 30
Date Collected: 11/09/12 7:45:01 PM
Data Type: Reprocessed on 11/11/12 1:48:10 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71475M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-191.6	-1.493	ug/L	0.9341	-0.058	mg/kg	0.0365	62.58%
Al 308.215	17.9	10.60	ug/L	14.451	0.414	mg/kg	0.5645	136.36%
As 188.979	4.7	0.936	ug/L	0.8651	0.037	mg/kg	0.0338	92.38%
B	59.5	14.38	ug/L	1.519	0.562	mg/kg	0.0594	10.56%
Ba 233.527	288.8	1.247	ug/L	0.0208	0.049	mg/kg	0.0008	1.67%
Be 313.107	-1079.9	-0.170	ug/L	0.0091	-0.007	mg/kg	0.0004	5.36%
Ca 315.887	15222.6	1266	ug/L	17.8	49.44	mg/kg	0.697	1.41%
Cd 214.440	137.4	0.297	ug/L	0.0111	0.012	mg/kg	0.0004	3.73%
Co 228.616	44.0	0.554	ug/L	0.2920	0.022	mg/kg	0.0114	52.72%
Cr 267.716	352.9	2.443	ug/L	0.2188	0.095	mg/kg	0.0085	8.95%
Cu 327.393	4148.4	39.31	ug/L	0.445	1.536	mg/kg	0.0174	1.13%
Fe 273.955	15688.9	572.5	ug/L	4.84	22.36	mg/kg	0.189	0.85%
K 766.490	151194.9	79580	ug/L	456.4	3109	mg/kg	17.8	0.57%
Mg 285.213	104058.7	5031	ug/L	49.7	196.5	mg/kg	1.94	0.99%
Mn 257.610	334.9	5.611	ug/L	0.0198	0.219	mg/kg	0.0008	0.35%
Mo 202.031	35.4	1.032	ug/L	0.0604	0.040	mg/kg	0.0024	5.85%
Na 589.592	123337.6	9913	ug/L	99.0	387.2	mg/kg	3.87	1.00%
Ni 231.604	-67.0	-1.078	ug/L	0.2889	-0.042	mg/kg	0.0113	26.80%
P 213.617	313054.0	45090	ug/L	343.4	1761	mg/kg	13.4	0.76%
Pb 220.353	-3.9	-0.254	ug/L	0.6219	-0.010	mg/kg	0.0243	244.88%
Sb 206.836	-3.7	-0.613	ug/L	1.3566	-0.024	mg/kg	0.0530	221.31%
Se 196.026	25.8	5.230	ug/L	1.2357	0.204	mg/kg	0.0483	23.63%
Sn 189.927	-45.0	-6.263	ug/L	0.7920	-0.245	mg/kg	0.0309	12.65%
Sr 421.552	5648.2	6.135	ug/L	0.0848	0.240	mg/kg	0.0033	1.38%
Ti 337.279	126.5	2.617	ug/L	0.3684	0.102	mg/kg	0.0144	14.08%
Tl 190.801	-2.3	-0.349	ug/L	0.0971	-0.014	mg/kg	0.0038	27.79%
V 292.402	-95.7	-0.622	ug/L	0.6838	-0.024	mg/kg	0.0267	109.89%
Zn 206.200	117455.7	1205	ug/L	3.3	47.08	mg/kg	0.128	0.27%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12014M
Sample Collection Date: 11/04/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69229
APPL ID: AY71476

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/08/12	11/09/12

Printed: 11/20/12 9:00:40 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 120
Sample ID: AY71476M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.48 g
Dilution:

Autosampler Location: 31
Date Collected: 11/09/12 7:49:52 PM
Data Type: Reprocessed on 11/11/12 1:48:11 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71476M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-229.9	-1.791	ug/L	0.4833	-0.072	mg/kg	0.0195	26.99%
Al 308.215	17.2	10.27	ug/L	6.653	0.414	mg/kg	0.2683	64.80%
As 188.979	0.4	0.072	ug/L	0.7958	0.003	mg/kg	0.0321	>999.9%
B	47.8	12.44	ug/L	1.821	0.502	mg/kg	0.0734	14.63%
Ba 233.527	286.7	1.132	ug/L	0.0924	0.046	mg/kg	0.0037	8.16%
Be 313.107	-984.6	-0.155	ug/L	0.0231	-0.006	mg/kg	0.0009	14.90%
Ca 315.887	11444.4	949.9	ug/L	5.73	38.30	mg/kg	0.231	0.60%
Cd 214.440	143.6	0.300	ug/L	0.0071	0.012	mg/kg	0.0003	2.36%
Co 228.616	26.8	0.306	ug/L	0.0278	0.012	mg/kg	0.0011	9.07%
Cr 267.716	308.2	2.145	ug/L	0.1115	0.086	mg/kg	0.0045	5.20%
Cu 327.393	4052.7	38.40	ug/L	0.570	1.548	mg/kg	0.0230	1.48%
Fe 273.955	20189.9	737.4	ug/L	4.77	29.73	mg/kg	0.192	0.65%
K 766.490	160159.2	84300	ug/L	457.1	3399	mg/kg	18.4	0.54%
Mg 285.213	101743.3	4919	ug/L	25.1	198.4	mg/kg	1.01	0.51%
Mn 257.610	183.1	2.964	ug/L	0.1236	0.120	mg/kg	0.0050	4.17%
Mo 202.031	30.6	0.948	ug/L	0.1854	0.038	mg/kg	0.0075	19.56%
Na 589.592	125652.7	10100	ug/L	70.0	407.2	mg/kg	2.82	0.69%
Ni 231.604	-85.3	-1.354	ug/L	0.1042	-0.055	mg/kg	0.0042	7.69%
P 213.617	306769.0	44190	ug/L	160.6	1782	mg/kg	6.5	0.36%
Pb 220.353	-11.9	-0.775	ug/L	0.9003	-0.031	mg/kg	0.0363	116.23%
Sb 206.836	-7.3	-1.218	ug/L	0.6696	-0.049	mg/kg	0.0270	54.99%
Se 196.026	9.9	2.014	ug/L	1.5150	0.081	mg/kg	0.0611	75.22%
Sn 189.927	-45.9	-6.385	ug/L	0.1597	-0.257	mg/kg	0.0064	2.50%
Sr 421.552	1818.4	2.136	ug/L	0.1152	0.086	mg/kg	0.0046	5.39%
Ti 337.279	102.4	2.024	ug/L	0.3423	0.082	mg/kg	0.0138	16.91%
Tl 190.801	-3.3	-0.499	ug/L	0.7969	-0.020	mg/kg	0.0321	159.84%
V 292.402	-7.0	-0.313	ug/L	0.3680	-0.013	mg/kg	0.0148	117.59%
Zn 206.200	122784.7	1260	ug/L	8.4	50.81	mg/kg	0.339	0.67%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12020M
Sample Collection Date: 11/05/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69229
APPL ID: AY71477

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/08/12	11/09/12

Printed: 11/20/12 9:00:40 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 121
Sample ID: AY71477M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.45 g
Dilution:

Autosampler Location: 32
Date Collected: 11/09/12 7:54:42 PM
Data Type: Reprocessed on 11/11/12 1:48:12 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71477M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-220.5	-1.717	ug/L	0.1732	-0.070	mg/kg	0.0071	10.09%
Al 308.215	28.9	16.96	ug/L	5.060	0.692	mg/kg	0.2065	29.84%
As 188.979	1.0	0.205	ug/L	0.5028	0.008	mg/kg	0.0205	245.43%
B	29.6	8.210	ug/L	0.2393	0.335	mg/kg	0.0098	2.91%
Ba 233.527	265.3	1.085	ug/L	0.0354	0.044	mg/kg	0.0014	3.26%
Be 313.107	-1115.8	-0.175	ug/L	0.0063	-0.007	mg/kg	0.0003	3.60%
Ca 315.887	12362.6	1027	ug/L	18.3	41.91	mg/kg	0.748	1.78%
Cd 214.440	114.5	0.234	ug/L	0.0486	0.010	mg/kg	0.0020	20.82%
Co 228.616	39.3	0.491	ug/L	0.1640	0.020	mg/kg	0.0067	33.41%
Cr 267.716	275.0	1.912	ug/L	0.1341	0.078	mg/kg	0.0055	7.01%
Cu 327.393	3494.6	33.11	ug/L	0.435	1.352	mg/kg	0.0178	1.31%
Fe 273.955	16731.3	610.7	ug/L	4.08	24.93	mg/kg	0.166	0.67%
K 766.490	155208.3	81700	ug/L	961.3	3335	mg/kg	39.2	1.18%
Mg 285.213	102744.3	4968	ug/L	61.8	202.8	mg/kg	2.52	1.24%
Mn 257.610	181.1	2.921	ug/L	0.0880	0.119	mg/kg	0.0036	3.01%
Mo 202.031	16.9	0.580	ug/L	0.3322	0.024	mg/kg	0.0136	57.25%
Na 589.592	95161.0	7640	ug/L	108.9	311.9	mg/kg	4.44	1.42%
Ni 231.604	-84.4	-1.341	ug/L	0.2771	-0.055	mg/kg	0.0113	20.66%
P 213.617	301161.4	43380	ug/L	446.0	1771	mg/kg	18.2	1.03%
Pb 220.353	-13.3	-0.868	ug/L	0.3119	-0.035	mg/kg	0.0127	35.94%
Sb 206.836	1.6	0.269	ug/L	0.2555	0.011	mg/kg	0.0104	95.15%
Se 196.026	12.7	2.573	ug/L	0.9481	0.105	mg/kg	0.0387	36.84%
Sn 189.927	-49.9	-6.948	ug/L	0.8378	-0.284	mg/kg	0.0342	12.06%
Sr 421.552	2201.8	2.534	ug/L	0.1092	0.103	mg/kg	0.0045	4.31%
Ti 337.279	75.7	1.397	ug/L	0.1734	0.057	mg/kg	0.0071	12.41%
Tl 190.801	-1.4	-0.209	ug/L	0.4716	-0.009	mg/kg	0.0192	225.49%
V 292.402	-188.1	-1.007	ug/L	0.3131	-0.041	mg/kg	0.0128	31.08%
Zn 206.200	91846.6	942.7	ug/L	4.81	38.48	mg/kg	0.196	0.51%

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No: 69229 SDG: 69229

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 11/09/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 10:46	%R(1)	True CCV1	Found 11:06	%R(1)	True CCV1	Found 18:43	%R(1)	
Lead (Pb)	1000	1053	105	1000	1037	104	1000	1037	104	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69229 SDG: 69229
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/09/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 10:46	%R(1)	True CCV2	Found 19:24	%R(1)	True CCV1	Found 20:22	%R(1)	
Lead (Pb)	1000	1053	105	750	805.1	107	1000	1056	106	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69229 SDG: 69229

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 11/09/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	10:49		11:09		18:49		19:31		19:12		
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U	P

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69229 SDG: 69229

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 11/09/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	10:49		20:25						19:12		
Lead (Pb)	5.00	U	5.00	U					.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69229 SDG: 69229

ICP ID Number: Phoebe ICS Source: Environmental Express

Analysis Date: 11/09/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 10:58	Sol AB 11:02	%R(1)
Aluminum (Al)	200000	200000	189900	187700	93.8
Calcium (Ca)	200000	200000	197900	195400	97.7
Iron (Fe)	200000	200000	182100	180800	90.4
Magnesium (Mg)	200000	200000	193600	191600	95.8
Lead (Pb)		1000	ND	960.3	96.0

(1) Control Limits: Metals 80-120

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

GT12020M

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69229 SDG: 69229

Analysis Date: 11/09/12 Concentration Units: mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	20.62		ND		20.408	101		

Comments:

11/09/12 19:54 AY71477M01

11/09/12 20:07 AY71477M01-A

Sequence No.: 124
Sample ID: AY71477M01-A
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.45 g
Dilution:

Autosampler Location: 35
Date Collected: 11/09/12 8:07:30 PM
Data Type: Reprocessed on 11/11/12 1:48:15 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71477M01-A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	19840.7	154.5	ug/L	4.04	6.307	mg/kg	0.1649	2.61%
Al 308.215	5935.7	3464	ug/L	62.2	141.4	mg/kg	2.54	1.79%
As 188.979	2301.4	459.5	ug/L	1.33	18.75	mg/kg	0.054	0.29%
B	2054.4	436.5	ug/L	4.23	17.82	mg/kg	0.173	0.97%
Ba 233.527	80898.8	468.9	ug/L	9.88	19.14	mg/kg	0.403	2.11%
Be 313.107	598834.6	94.10	ug/L	1.918	3.841	mg/kg	0.0783	2.04%
Ca 315.887	550241.4	45940	ug/L	467.1	1875	mg/kg	19.1	1.02%
Cd 214.440	34168.4	95.35	ug/L	2.212	3.892	mg/kg	0.0903	2.32%
Co 228.616	35941.1	509.4	ug/L	11.09	20.79	mg/kg	0.453	2.18%
Cr 267.716	71224.0	491.7	ug/L	10.16	20.07	mg/kg	0.415	2.07%
Cu 327.393	54863.1	519.9	ug/L	11.68	21.22	mg/kg	0.477	2.25%
Fe 273.955	68183.2	2455	ug/L	54.5	100.2	mg/kg	2.22	2.22%
K 766.490	163708.3	86170	ug/L	746.6	3517	mg/kg	30.5	0.87%
Mg 285.213	978524.7	47320	ug/L	450.6	1932	mg/kg	18.4	0.95%
Mn 257.610	28055.4	489.7	ug/L	5.83	19.99	mg/kg	0.238	1.19%
Mo 202.031	21725.9	497.4	ug/L	1.74	20.30	mg/kg	0.071	0.35%
Na 589.592	695879.4	56070	ug/L	479.8	2289	mg/kg	19.6	0.86%
Ni 231.604	33103.3	499.7	ug/L	11.48	20.40	mg/kg	0.469	2.30%
P 213.617	318703.8	45910	ug/L	1154.8	1874	mg/kg	47.1	2.52%
Pb 220.353	7752.2	505.1	ug/L	2.27	20.62	mg/kg	0.093	0.45%
Sb 206.836	2714.4	453.7	ug/L	2.70	18.52	mg/kg	0.110	0.59%
Se 196.026	2285.4	462.8	ug/L	0.61	18.89	mg/kg	0.025	0.13%
Sn 189.927	4147.9	577.3	ug/L	4.21	23.56	mg/kg	0.172	0.73%
Sr 421.552	453282.6	475.1	ug/L	4.40	19.39	mg/kg	0.180	0.93%
Ti 337.279	18394.0	439.0	ug/L	5.54	17.92	mg/kg	0.226	1.26%
Tl 190.801	3128.5	470.4	ug/L	1.51	19.20	mg/kg	0.061	0.32%
V 292.402	120425.0	499.6	ug/L	9.88	20.39	mg/kg	0.403	1.98%
Zn 206.200	180275.6	1855	ug/L	42.4	75.72	mg/kg	1.731	2.29%

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 121109A6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1 Autosampler Location: 1
Sample ID: CalBlk 121109EA I:PB O:EA Date Collected: 11/09/12 10:31:25 AM
Analyst: Data Type: Reprocessed on 11/11/12 1:46:06 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CalBlk 121109EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	6.8	78.74	>999.9%	[0.00]	ug/L
Al 308.215	110.1	14.92	13.55%	[0.00]	ug/L
As 188.979	1.2	0.67	53.93%	[0.00]	ug/L
B	7.9	16.52	208.07%	[0.00]	ug/L
Ba 233.527	93.5	28.39	30.36%	[0.00]	ug/L
Be 313.107	2045.3	65.27	3.19%	[0.00]	ug/L
Ca 315.887	-484.3	6.32	1.30%	[0.00]	ug/L
Cd 214.440	604.0	18.37	3.04%	[0.00]	ug/L
Co 228.616	49.5	6.74	13.60%	[0.00]	ug/L
Cr 267.716	630.3	9.39	1.49%	[0.00]	ug/L
Cu 327.393	-51.3	33.04	64.39%	[0.00]	ug/L
Fe 273.955	-85.0	33.43	39.35%	[0.00]	ug/L
K 766.490	109.4	242.00	221.20%	[0.00]	ug/L
Mg 285.213	-83.7	6.73	8.04%	[0.00]	ug/L
Mn 257.610	-88.1	6.57	7.46%	[0.00]	ug/L
Mo 202.031	179.9	12.41	6.90%	[0.00]	ug/L
Na 589.592	-1146.9	49.84	4.35%	[0.00]	ug/L
Ni 231.604	-221.9	32.56	14.68%	[0.00]	ug/L
P 213.617	73.8	2.13	2.88%	[0.00]	ug/L
Pb 220.353	-36.5	6.60	18.10%	[0.00]	ug/L
Sb 206.836	0.7	3.34	485.42%	[0.00]	ug/L
Se 196.026	30.0	4.98	16.59%	[0.00]	ug/L
Sn 189.927	-17.5	6.19	35.42%	[0.00]	ug/L
Sr 421.552	829.6	110.34	13.30%	[0.00]	ug/L
Ti 337.279	-423.6	14.91	3.52%	[0.00]	ug/L
Tl 190.801	-10.6	3.66	34.55%	[0.00]	ug/L
V 292.402	-745.1	49.42	6.63%	[0.00]	ug/L
Zn 206.200	-72.9	12.49	17.13%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121109EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/09/12 10:35:54 AM
Data Type: Reprocessed on 11/11/12 1:46:07 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121109EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	9.7	55.56	573.13%	[1.00]	ug/L
Al 308.215	165.3	14.93	9.03%	[100.00]	ug/L
As 188.979	21.6	3.90	18.05%	[3.50]	ug/L
B	267.9	11.27	4.21%	[50.00]	ug/L
Ba 233.527	916.2	25.26	2.76%	[5.00]	ug/L
Be 313.107	14072.0	257.27	1.83%	[2.00]	ug/L
Ca 315.887	1365.3	29.77	2.18%	[100.00]	ug/L
Cd 214.440	2044.1	7.61	0.37%	[5.00]	ug/L
Co 228.616	415.8	5.97	1.44%	[5.00]	ug/L
Cr 267.716	840.5	25.04	2.98%	[5.00]	ug/L
Cu 327.393	506.5	25.95	5.12%	[5.00]	ug/L
Fe 273.955	1517.6	5.89	0.39%	[50.00]	ug/L
K 766.490	1920.2	106.18	5.53%	[1000.00]	ug/L
Mg 285.213	1225.5	1.07	0.09%	[50]	ug/L
Mn 257.610	329.1	6.49	1.97%	[5.00]	ug/L
Mo 202.031	236.1	9.90	4.19%	[5.00]	ug/L
Na 589.592	13497.6	187.40	1.39%	[1000.00]	ug/L
Ni 231.604	421.8	5.96	1.41%	[5.00]	ug/L
P 213.617	178.7	4.00	2.24%	[25.00]	ug/L
Pb 220.353	45.0	9.47	21.06%	[3.00]	ug/L
Sb 206.836	27.5	3.96	14.36%	[5.00]	ug/L
Se 196.026	27.6	2.87	10.39%	[5.00]	ug/L
Sn 189.927	36.6	5.05	13.78%	[5.00]	ug/L
Sr 421.552	5295.3	79.02	1.49%	[5.00]	ug/L
Ti 337.279	233.4	13.31	5.70%	[5.00]	ug/L
Tl 190.801	38.1	5.51	14.47%	[5.00]	ug/L
V 292.402	1336.3	37.70	2.82%	[5.00]	ug/L
Zn 206.200	2331.3	3.90	0.17%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121109EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/09/12 10:40:18 AM
Data Type: Reprocessed on 11/11/12 1:46:08 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121109EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	65063.4	314.72	0.48%	[500.0]	ug/L
Al 308.215	34627.3	327.32	0.95%	[20000.00]	ug/L
As 188.979	5056.6	36.73	0.73%	[1000.00]	ug/L
B	4819.6	67.04	1.39%	[1000.00]	ug/L
Ba 233.527	177380.6	1125.18	0.63%	[1000.00]	ug/L
Be 313.107	6500755.3	43037.12	0.66%	[1000.00]	ug/L
Ca 315.887	616342.7	4085.97	0.66%	[50000]	ug/L
Cd 214.440	371308.9	2426.32	0.65%	[1000.00]	ug/L
Co 228.616	72545.1	366.08	0.50%	[1000.00]	ug/L
Cr 267.716	148731.4	931.79	0.63%	[1000.00]	ug/L
Cu 327.393	106432.7	740.81	0.70%	[1000.00]	ug/L
Fe 273.955	562573.1	3525.36	0.63%	[20000]	ug/L
K 766.490	38030.3	245.22	0.64%	[20000]	ug/L
Mg 285.213	1070923.6	5776.34	0.54%	[50000]	ug/L
Mn 257.610	58409.4	519.21	0.89%	[1000.00]	ug/L
Mo 202.031	46066.0	236.10	0.51%	[1000.00]	ug/L
Na 589.592	317608.5	1850.18	0.58%	[25000]	ug/L
Ni 231.604	68439.7	561.28	0.82%	[1000.00]	ug/L
P 213.617	35972.2	172.87	0.48%	[5000]	ug/L
Pb 220.353	15779.2	120.89	0.77%	[1000.00]	ug/L
Sb 206.836	6090.3	23.00	0.38%	[1000.00]	ug/L
Se 196.026	5021.9	53.53	1.07%	[1000.00]	ug/L
Sn 189.927	7177.2	49.69	0.69%	[1000.00]	ug/L
Sr 421.552	976489.4	5451.36	0.56%	[1000.00]	ug/L
Ti 337.279	42254.7	374.61	0.89%	[1000.00]	ug/L
Tl 190.801	6901.8	33.54	0.49%	[1000.00]	ug/L
V 292.402	251060.0	1864.81	0.74%	[1000.00]	ug/L
Zn 206.200	100850.1	556.88	0.55%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121109EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 11/09/12 10:42:59 AM
Data Type: Reprocessed on 11/11/12 1:46:10 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121109EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	127957.4	1443.61	1.13%	[1000.00]	ug/L
Al 308.215	68494.1	925.49	1.35%	[40000.00]	ug/L
As 188.979	9994.3	65.44	0.65%	[2000.00]	ug/L
B	9485.2	174.86	1.84%	[2000.00]	ug/L
Ba 233.527	341429.5	1679.80	0.49%	[2000.00]	ug/L
Be 313.107	12658613.4	109209.05	0.86%	[2000.00]	ug/L
Ca 315.887	1188658.3	19470.66	1.64%	[100000.0]	ug/L
Cd 214.440	711187.6	4291.18	0.60%	[2000.00]	ug/L
Co 228.616	139992.7	725.73	0.52%	[2000.00]	ug/L
Cr 267.716	287871.4	1804.94	0.63%	[2000.00]	ug/L
Cu 327.393	210614.2	1973.14	0.94%	[2000.00]	ug/L
Fe 273.955	1082420.1	5876.02	0.54%	[40000]	ug/L
K 766.490	75977.2	1140.24	1.50%	[40000]	ug/L
Mg 285.213	2049159.7	29101.81	1.42%	[100000]	ug/L
Mn 257.610	113434.9	1728.72	1.52%	[2000.00]	ug/L
Mo 202.031	86299.0	415.55	0.48%	[2000.00]	ug/L
Na 589.592	616227.4	9418.16	1.53%	[50000]	ug/L
Ni 231.604	131017.1	560.73	0.43%	[2000.00]	ug/L
P 213.617	68792.6	655.36	0.95%	[10000]	ug/L
Pb 220.353	30478.1	362.24	1.19%	[2000.00]	ug/L
Sb 206.836	11911.0	87.77	0.74%	[2000.00]	ug/L
Se 196.026	9833.6	67.59	0.69%	[2000.00]	ug/L
Sn 189.927	14373.9	50.17	0.35%	[2000.00]	ug/L
Sr 421.552	1896505.4	29800.41	1.57%	[2000.00]	ug/L
Ti 337.279	83368.0	1229.35	1.47%	[2000.00]	ug/L
Tl 190.801	13177.0	139.77	1.06%	[2000.00]	ug/L
V 292.402	489884.7	2730.60	0.56%	[2000.00]	ug/L
Zn 206.200	193383.7	923.61	0.48%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	128.4	0.00000	0.999977	
Al 308.215	3	Lin Thru 0	0.0	1.716	0.00000	0.999990	
As 188.979	3	Lin Thru 0	0.0	5.009	0.00000	0.999989	
B	3	Lin Thru 0	0.0	4.758	0.00000	0.999975	
Ba 233.527	3	Lin Thru 0	0.0	172.0	0.00000	0.999880	
Be 313.107	3	Lin Thru 0	0.0	6364	0.00000	0.999942	
Ca 315.887	3	Lin Thru 0	0.0	11.97	0.00000	0.999892	
Cd 214.440	3	Lin Thru 0	0.0	358.7	0.00000	0.999846	
Co 228.616	3	Lin Thru 0	0.0	70.51	0.00000	0.999895	
Cr 267.716	3	Lin Thru 0	0.0	144.9	0.00000	0.999912	
Cu 327.393	3	Lin Thru 0	0.0	105.5	0.00000	0.999991	
Fe 273.955	3	Lin Thru 0	0.0	27.27	0.00000	0.999877	
K 766.490	3	Lin Thru 0	0.0	1.900	0.00000	1.000000	
Mg 285.213	3	Lin Thru 0	0.0	20.68	0.00000	0.999839	
Mn 257.610	3	Lin Thru 0	0.0	57.06	0.00000	0.999930	
Mo 202.031	3	Lin Thru 0	0.0	43.73	0.00000	0.999644	
Na 589.592	3	Lin Thru 0	0.0	12.40	0.00000	0.999924	
Ni 231.604	3	Lin Thru 0	0.0	66.09	0.00000	0.999843	
P 213.617	3	Lin Thru 0	0.0	6.942	0.00000	0.999835	
Pb 220.353	3	Lin Thru 0	0.0	15.35	0.00000	0.999901	
Sb 206.836	3	Lin Thru 0	0.0	5.982	0.00000	0.999959	
Se 196.026	3	Lin Thru 0	0.0	4.938	0.00000	0.999964	
Sn 189.927	3	Lin Thru 0	0.0	7.185	0.00000	1.000000	
Sr 421.552	3	Lin Thru 0	0.0	953.9	0.00000	0.999930	
Ti 337.279	3	Lin Thru 0	0.0	41.80	0.00000	0.999985	
Tl 190.801	3	Lin Thru 0	0.0	6.651	0.00000	0.999823	

V 292.402	3	Lin Thru 0	0.0	246.2	0.00000	0.999951
Zn 206.200	3	Lin Thru 0	0.0	97.53	0.00000	0.999853

Sequence No.: 5
Sample ID: ICV 121109EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 11/09/12 10:46:14 AM
Data Type: Reprocessed on 11/11/12 1:46:11 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121109EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	66924.2	521.3	ug/L	2.10	521.3	ug/L	2.10	0.40%
QC value within limits for Ag 338.289 Recovery = 104.25%								
Al 308.215	42194.4	24600	ug/L	133.6	24600	ug/L	133.6	0.54%
QC value within limits for Al 308.215 Recovery = 98.39%								
As 188.979	5033.4	1005	ug/L	11.3	1005	ug/L	11.3	1.12%
QC value within limits for As 188.979 Recovery = 100.49%								
B	4689.1	1055	ug/L	3.9	1055	ug/L	3.9	0.37%
QC value within limits for B Recovery = 105.53%								
Ba 233.527	175138.8	1004	ug/L	5.8	1004	ug/L	5.8	0.58%
QC value within limits for Ba 233.527 Recovery = 100.36%								
Be 313.107	6506803.4	1023	ug/L	6.7	1023	ug/L	6.7	0.65%
QC value within limits for Be 313.107 Recovery = 102.25%								
Ca 315.887	305888.0	25530	ug/L	87.1	25530	ug/L	87.1	0.34%
QC value within limits for Ca 315.887 Recovery = 102.14%								
Cd 214.440	379940.7	1058	ug/L	4.7	1058	ug/L	4.7	0.45%
QC value within limits for Cd 214.440 Recovery = 105.83%								
Co 228.616	74008.4	1049	ug/L	5.7	1049	ug/L	5.7	0.54%
QC value within limits for Co 228.616 Recovery = 104.89%								
Cr 267.716	152212.8	1052	ug/L	6.6	1052	ug/L	6.6	0.62%
QC value within limits for Cr 267.716 Recovery = 105.17%								
Cu 327.393	104643.2	991.6	ug/L	0.19	991.6	ug/L	0.19	0.02%
QC value within limits for Cu 327.393 Recovery = 99.16%								
Fe 273.955	690842.8	25240	ug/L	142.3	25240	ug/L	142.3	0.56%
QC value within limits for Fe 273.955 Recovery = 100.98%								
K 766.490	46739.4	24590	ug/L	152.0	24590	ug/L	152.0	0.62%
QC value within limits for K 766.490 Recovery = 98.36%								
Mg 285.213	530574.9	25690	ug/L	62.6	25690	ug/L	62.6	0.24%
QC value within limits for Mg 285.213 Recovery = 102.75%								
Mn 257.610	59612.7	1046	ug/L	6.6	1046	ug/L	6.6	0.63%
QC value within limits for Mn 257.610 Recovery = 104.55%								
Mo 202.031	46523.1	1066	ug/L	5.6	1066	ug/L	5.6	0.53%
QC value within limits for Mo 202.031 Recovery = 106.65%								
Na 589.592	308658.8	24870	ug/L	43.0	24870	ug/L	43.0	0.17%
QC value within limits for Na 589.592 Recovery = 99.48%								
Ni 231.604	71505.2	1080	ug/L	6.3	1080	ug/L	6.3	0.59%
QC value within limits for Ni 231.604 Recovery = 108.01%								
P 213.617	34701.4	4999	ug/L	19.4	4999	ug/L	19.4	0.39%
QC value within limits for P 213.617 Recovery = 99.97%								
Pb 220.353	16159.9	1053	ug/L	3.2	1053	ug/L	3.2	0.31%
QC value within limits for Pb 220.353 Recovery = 105.30%								
Sb 206.836	6464.6	1081	ug/L	7.0	1081	ug/L	7.0	0.65%
QC value within limits for Sb 206.836 Recovery = 108.06%								
Se 196.026	5138.8	1041	ug/L	6.3	1041	ug/L	6.3	0.60%
QC value within limits for Se 196.026 Recovery = 104.07%								
Sn 189.927	3372.0	469.3	ug/L	4.48	469.3	ug/L	4.48	0.95%
QC value within limits for Sn 189.927 Recovery = 93.86%								
Sr 421.552	961814.7	1008	ug/L	3.1	1008	ug/L	3.1	0.31%
QC value within limits for Sr 421.552 Recovery = 100.81%								
Ti 337.279	39180.0	936.9	ug/L	7.29	936.9	ug/L	7.29	0.78%
QC value within limits for Ti 337.279 Recovery = 93.69%								
Tl 190.801	6724.2	1011	ug/L	5.6	1011	ug/L	5.6	0.56%
QC value within limits for Tl 190.801 Recovery = 101.10%								
V 292.402	253806.7	1049	ug/L	5.2	1049	ug/L	5.2	0.50%
QC value within limits for V 292.402 Recovery = 104.87%								
Zn 206.200	106178.9	1098	ug/L	7.8	1098	ug/L	7.8	0.71%
QC value within limits for Zn 206.200 Recovery = 109.85%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICB 121109EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/09/12 10:49:26 AM
Data Type: Reprocessed on 11/11/12 1:46:12 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121109EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Ag 338.289	60.7	0.473	ug/L	0.2378	0.473	ug/L	0.2378	50.32%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-6.9	-4.079	ug/L	4.5069	-4.079	ug/L	4.5069	110.49%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	-3.0	-0.597	ug/L	1.4317	-0.597	ug/L	1.4317	239.80%
QC value within limits for As 188.979 Recovery = Not calculated								
B	52.2	10.97	ug/L	1.052	10.97	ug/L	1.052	9.58%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	22.7	0.131	ug/L	0.0582	0.131	ug/L	0.0582	44.61%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	237.8	0.037	ug/L	0.0041	0.037	ug/L	0.0041	10.97%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	8.0	0.668	ug/L	0.9021	0.668	ug/L	0.9021	135.09%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	62.3	0.174	ug/L	0.0697	0.174	ug/L	0.0697	40.08%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	12.9	0.183	ug/L	0.2649	0.183	ug/L	0.2649	145.13%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	27.2	0.186	ug/L	0.0181	0.186	ug/L	0.0181	9.70%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	116.8	1.107	ug/L	0.3999	1.107	ug/L	0.3999	36.13%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	41.4	1.550	ug/L	0.4001	1.550	ug/L	0.4001	25.81%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	20.4	10.76	ug/L	86.242	10.76	ug/L	86.242	801.82%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	23.4	1.134	ug/L	0.2461	1.134	ug/L	0.2461	21.71%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	15.5	0.271	ug/L	0.1815	0.271	ug/L	0.1815	66.93%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	21.1	0.481	ug/L	0.2098	0.481	ug/L	0.2098	43.59%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	216.3	17.44	ug/L	19.656	17.44	ug/L	19.656	112.73%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	9.7	0.145	ug/L	0.0369	0.145	ug/L	0.0369	25.39%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-3.8	-0.552	ug/L	0.2449	-0.552	ug/L	0.2449	44.41%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	15.1	0.981	ug/L	0.4363	0.981	ug/L	0.4363	44.47%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	5.2	0.864	ug/L	0.1549	0.864	ug/L	0.1549	17.92%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-8.2	-1.669	ug/L	1.5774	-1.669	ug/L	1.5774	94.52%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	15.6	2.174	ug/L	0.6783	2.174	ug/L	0.6783	31.20%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	64.4	0.067	ug/L	0.1182	0.067	ug/L	0.1182	175.15%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	26.8	0.641	ug/L	0.2568	0.641	ug/L	0.2568	40.04%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	13.7	2.064	ug/L	0.1067	2.064	ug/L	0.1067	5.17%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-97.4	-0.388	ug/L	0.3949	-0.388	ug/L	0.3949	101.76%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-7.1	-0.071	ug/L	0.0410	-0.071	ug/L	0.0410	57.78%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121109EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 11/09/12 10:58:09 AM
Data Type: Reprocessed on 11/11/12 1:46:14 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121109EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-3.3	-0.026	ug/L	0.1907	-0.026	ug/L	0.1907	742.19%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	325838.7	189900	ug/L	757.6	189900	ug/L	757.6	0.40%
QC value within limits for Al 308.215 Recovery = 94.94%								
As 188.979	-14.7	-2.941	ug/L	1.5610	-2.941	ug/L	1.5610	53.07%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2432.1	-0.130	ug/L	22.9980	-0.130	ug/L	22.9980	>999.9%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	18746.5	0.160	ug/L	2.1601	0.160	ug/L	2.1601	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	656.2	0.103	ug/L	0.0146	0.103	ug/L	0.0146	14.18%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2370545.4	197900	ug/L	735.4	197900	ug/L	735.4	0.37%
QC value within limits for Ca 315.887 Recovery = 98.96%								
Cd 214.440	3648.9	-0.969	ug/L	0.1970	-0.969	ug/L	0.1970	20.34%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	364.0	-0.377	ug/L	0.4542	-0.377	ug/L	0.4542	120.57%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-174.6	-0.113	ug/L	0.1603	-0.113	ug/L	0.1603	142.35%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	152.2	1.442	ug/L	0.0617	1.442	ug/L	0.0617	4.28%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4968209.6	182100	ug/L	1988.9	182100	ug/L	1988.9	1.09%
QC value within limits for Fe 273.955 Recovery = 91.07%								
K 766.490	142.6	-42.67	ug/L	141.483	-42.67	ug/L	141.483	331.59%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3998824.7	193600	ug/L	818.5	193600	ug/L	818.5	0.42%
QC value within limits for Mg 285.213 Recovery = 96.80%								
Mn 257.610	-81.6	2.209	ug/L	0.9586	2.209	ug/L	0.9586	43.41%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-635.4	-0.714	ug/L	0.0989	-0.714	ug/L	0.0989	13.86%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	387.6	-14.53	ug/L	10.727	-14.53	ug/L	10.727	73.83%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-125.4	0.016	ug/L	0.3156	0.016	ug/L	0.3156	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-59.2	-8.526	ug/L	1.0573	-8.526	ug/L	1.0573	12.40%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-19.8	-1.291	ug/L	0.2310	-1.291	ug/L	0.2310	17.89%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-4.0	-0.673	ug/L	1.6302	-0.673	ug/L	1.6302	242.30%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-12.3	-2.481	ug/L	1.0785	-2.481	ug/L	1.0785	43.47%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-13.5	-1.874	ug/L	1.0134	-1.874	ug/L	1.0134	54.08%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2121.6	0.817	ug/L	0.3267	0.817	ug/L	0.3267	40.00%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	185.2	0.969	ug/L	0.1606	0.969	ug/L	0.1606	16.58%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-5.4	-0.812	ug/L	0.8964	-0.812	ug/L	0.8964	110.36%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	11004.6	-1.806	ug/L	1.2486	-1.806	ug/L	1.2486	69.12%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	1189.6	2.842	ug/L	0.1051	2.842	ug/L	0.1051	3.70%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121109EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 11/09/12 11:02:17 AM
Data Type: Reprocessed on 11/11/12 1:46:15 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121109EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	131390.9	1023	ug/L	12.7	1023	ug/L	12.7	1.25%
QC value within limits for Ag 338.289 Recovery = 102.34%								
Al 308.215	322010.3	187700	ug/L	636.8	187700	ug/L	636.8	0.34%
QC value within limits for Al 308.215 Recovery = 93.83%								
As 188.979	2433.8	485.9	ug/L	1.44	485.9	ug/L	1.44	0.30%
QC value within limits for As 188.979 Recovery = 97.17%								
B	-2362.2	10.39	ug/L	1.827	10.39	ug/L	1.827	17.59%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	99476.1	470.6	ug/L	7.92	470.6	ug/L	7.92	1.68%
QC value within limits for Ba 233.527 Recovery = 94.11%								
Be 313.107	3043130.2	478.2	ug/L	2.51	478.2	ug/L	2.51	0.52%
QC value within limits for Be 313.107 Recovery = 95.64%								
Ca 315.887	2340419.8	195400	ug/L	838.3	195400	ug/L	838.3	0.43%
QC value within limits for Ca 315.887 Recovery = 97.70%								
Cd 214.440	340476.5	938.2	ug/L	13.31	938.2	ug/L	13.31	1.42%
QC value within limits for Cd 214.440 Recovery = 93.82%								
Co 228.616	33211.1	466.5	ug/L	5.74	466.5	ug/L	5.74	1.23%
QC value within limits for Co 228.616 Recovery = 93.30%								
Cr 267.716	68822.8	476.6	ug/L	7.27	476.6	ug/L	7.27	1.53%
QC value within limits for Cr 267.716 Recovery = 95.32%								
Cu 327.393	51643.9	489.4	ug/L	7.07	489.4	ug/L	7.07	1.44%
QC value within limits for Cu 327.393 Recovery = 97.87%								
Fe 273.955	4931705.4	180800	ug/L	581.3	180800	ug/L	581.3	0.32%
QC value within limits for Fe 273.955 Recovery = 90.38%								
K 766.490	83.1	-74.37	ug/L	132.460	-74.37	ug/L	132.460	178.11%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3957634.2	191600	ug/L	884.9	191600	ug/L	884.9	0.46%
QC value within limits for Mg 285.213 Recovery = 95.80%								
Mn 257.610	27248.1	481.3	ug/L	6.57	481.3	ug/L	6.57	1.36%
QC value within limits for Mn 257.610 Recovery = 96.26%								
Mo 202.031	20966.1	493.5	ug/L	0.91	493.5	ug/L	0.91	0.18%
QC value within limits for Mo 202.031 Recovery = 98.70%								
Na 589.592	373.8	-16.97	ug/L	17.618	-16.97	ug/L	17.618	103.80%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	62441.3	945.7	ug/L	12.85	945.7	ug/L	12.85	1.36%
QC value within limits for Ni 231.604 Recovery = 94.57%								
P 213.617	-24.7	-3.561	ug/L	1.8479	-3.561	ug/L	1.8479	51.90%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	14737.2	960.3	ug/L	3.50	960.3	ug/L	3.50	0.36%
QC value within limits for Pb 220.353 Recovery = 96.03%								
Sb 206.836	3001.1	501.6	ug/L	0.96	501.6	ug/L	0.96	0.19%
QC value within limits for Sb 206.836 Recovery = 100.33%								
Se 196.026	2384.4	482.9	ug/L	1.37	482.9	ug/L	1.37	0.28%
QC value within limits for Se 196.026 Recovery = 96.58%								
Sn 189.927	-18.5	-2.581	ug/L	0.2418	-2.581	ug/L	0.2418	9.37%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2167.0	0.883	ug/L	0.0827	0.883	ug/L	0.0827	9.37%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	147.3	0.148	ug/L	1.1056	0.148	ug/L	1.1056	749.35%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3110.5	467.7	ug/L	0.80	467.7	ug/L	0.80	0.17%
QC value within limits for Tl 190.801 Recovery = 93.53%								
V 292.402	130123.8	493.9	ug/L	7.78	493.9	ug/L	7.78	1.57%
QC value within limits for V 292.402 Recovery = 98.78%								
Zn 206.200	93379.6	953.0	ug/L	12.93	953.0	ug/L	12.93	1.36%
QC value within limits for Zn 206.200 Recovery = 95.30%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121109EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/09/12 11:06:29 AM
Data Type: Reprocessed on 11/11/12 1:46:16 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121109EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	64452.8	502.0	ug/L	5.09	502.0	ug/L	5.09	1.01%
QC value within limits for Ag 338.289 Recovery = 100.40%								
Al 308.215	35254.1	20550	ug/L	249.0	20550	ug/L	249.0	1.21%
QC value within limits for Al 308.215 Recovery = 102.76%								
As 188.979	5187.1	1036	ug/L	18.4	1036	ug/L	18.4	1.78%
QC value within limits for As 188.979 Recovery = 103.55%								
B	4786.4	1061	ug/L	12.9	1061	ug/L	12.9	1.22%
QC value within limits for B Recovery = 106.08%								
Ba 233.527	175042.1	1006	ug/L	12.0	1006	ug/L	12.0	1.20%
QC value within limits for Ba 233.527 Recovery = 100.59%								
Be 313.107	6602077.3	1037	ug/L	6.0	1037	ug/L	6.0	0.58%
QC value within limits for Be 313.107 Recovery = 103.75%								
Ca 315.887	624116.8	52110	ug/L	887.3	52110	ug/L	887.3	1.70%
QC value within limits for Ca 315.887 Recovery = 104.22%								
Cd 214.440	373384.0	1040	ug/L	13.4	1040	ug/L	13.4	1.29%
QC value within limits for Cd 214.440 Recovery = 104.03%								
Co 228.616	72420.1	1026	ug/L	13.1	1026	ug/L	13.1	1.28%
QC value within limits for Co 228.616 Recovery = 102.62%								
Cr 267.716	148423.1	1025	ug/L	12.7	1025	ug/L	12.7	1.24%
QC value within limits for Cr 267.716 Recovery = 102.52%								
Cu 327.393	104626.5	991.4	ug/L	12.29	991.4	ug/L	12.29	1.24%
QC value within limits for Cu 327.393 Recovery = 99.14%								
Fe 273.955	559863.3	20440	ug/L	253.3	20440	ug/L	253.3	1.24%
QC value within limits for Fe 273.955 Recovery = 102.21%								
K 766.490	38775.0	20390	ug/L	147.3	20390	ug/L	147.3	0.72%
QC value within limits for K 766.490 Recovery = 101.96%								
Mg 285.213	1082051.3	52350	ug/L	818.9	52350	ug/L	818.9	1.56%
QC value within limits for Mg 285.213 Recovery = 104.71%								
Mn 257.610	59303.8	1039	ug/L	11.5	1039	ug/L	11.5	1.11%
QC value within limits for Mn 257.610 Recovery = 103.85%								
Mo 202.031	45970.9	1053	ug/L	7.5	1053	ug/L	7.5	0.71%
QC value within limits for Mo 202.031 Recovery = 105.33%								
Na 589.592	319779.5	25760	ug/L	444.1	25760	ug/L	444.1	1.72%
QC value within limits for Na 589.592 Recovery = 103.06%								
Ni 231.604	68496.8	1034	ug/L	11.5	1034	ug/L	11.5	1.11%
QC value within limits for Ni 231.604 Recovery = 103.45%								
P 213.617	36572.3	5268	ug/L	66.0	5268	ug/L	66.0	1.25%
QC value within limits for P 213.617 Recovery = 105.36%								
Pb 220.353	15916.5	1037	ug/L	10.9	1037	ug/L	10.9	1.05%
QC value within limits for Pb 220.353 Recovery = 103.71%								
Sb 206.836	6070.2	1015	ug/L	16.3	1015	ug/L	16.3	1.61%
QC value within limits for Sb 206.836 Recovery = 101.47%								
Se 196.026	5150.8	1043	ug/L	13.9	1043	ug/L	13.9	1.33%
QC value within limits for Se 196.026 Recovery = 104.31%								
Sn 189.927	7442.0	1036	ug/L	20.7	1036	ug/L	20.7	2.00%
QC value within limits for Sn 189.927 Recovery = 103.58%								
Sr 421.552	981014.1	1028	ug/L	18.2	1028	ug/L	18.2	1.77%
QC value within limits for Sr 421.552 Recovery = 102.81%								
Ti 337.279	42810.6	1023	ug/L	12.3	1023	ug/L	12.3	1.20%
QC value within limits for Ti 337.279 Recovery = 102.34%								
Tl 190.801	6824.7	1026	ug/L	10.7	1026	ug/L	10.7	1.04%
QC value within limits for Tl 190.801 Recovery = 102.61%								
V 292.402	249694.1	1033	ug/L	12.6	1033	ug/L	12.6	1.22%
QC value within limits for V 292.402 Recovery = 103.27%								
Zn 206.200	102052.7	1056	ug/L	12.7	1056	ug/L	12.7	1.20%
QC value within limits for Zn 206.200 Recovery = 105.63%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 121109EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/09/12 11:09:43 AM
Data Type: Reprocessed on 11/11/12 1:46:17 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121109EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	72.2	0.562	ug/L	0.3936	0.562	ug/L	0.3936	70.02%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	6.7	3.883	ug/L	7.9078	3.883	ug/L	7.9078	203.65%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	-2.7	-0.531	ug/L	1.0349	-0.531	ug/L	1.0349	195.03%
QC value within limits for As 188.979 Recovery = Not calculated								
B	34.0	7.164	ug/L	1.3777	7.164	ug/L	1.3777	19.23%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	32.2	0.184	ug/L	0.0262	0.184	ug/L	0.0262	14.24%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	121.2	0.019	ug/L	0.0102	0.019	ug/L	0.0102	53.73%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	28.6	2.384	ug/L	1.2174	2.384	ug/L	1.2174	51.06%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	109.0	0.304	ug/L	0.0439	0.304	ug/L	0.0439	14.43%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	7.9	0.113	ug/L	0.1787	0.113	ug/L	0.1787	157.72%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	39.2	0.270	ug/L	0.1693	0.270	ug/L	0.1693	62.79%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	90.3	0.856	ug/L	0.1603	0.856	ug/L	0.1603	18.73%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	103.5	3.840	ug/L	0.5826	3.840	ug/L	0.5826	15.17%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-74.7	-39.29	ug/L	47.525	-39.29	ug/L	47.525	120.95%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	78.2	3.788	ug/L	0.5682	3.788	ug/L	0.5682	15.00%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	9.0	0.158	ug/L	0.0646	0.158	ug/L	0.0646	41.02%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	30.1	0.688	ug/L	0.3072	0.688	ug/L	0.3072	44.68%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	244.6	19.74	ug/L	5.221	19.74	ug/L	5.221	26.45%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	2.7	0.041	ug/L	0.1629	0.041	ug/L	0.1629	395.67%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	2.3	0.338	ug/L	0.4233	0.338	ug/L	0.4233	125.38%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	7.7	0.504	ug/L	0.0530	0.504	ug/L	0.0530	10.51%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	7.2	1.209	ug/L	1.1031	1.209	ug/L	1.1031	91.23%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-10.8	-2.187	ug/L	0.7884	-2.187	ug/L	0.7884	36.05%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	18.2	2.535	ug/L	0.5236	2.535	ug/L	0.5236	20.66%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	92.3	0.097	ug/L	0.1940	0.097	ug/L	0.1940	200.75%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	5.3	0.127	ug/L	0.6456	0.127	ug/L	0.6456	508.56%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	4.3	0.648	ug/L	0.2717	0.648	ug/L	0.2717	41.91%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-136.6	-0.544	ug/L	0.3836	-0.544	ug/L	0.3836	70.55%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-17.2	-0.174	ug/L	0.0759	-0.174	ug/L	0.0759	43.61%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 107
Sample ID: CCV1 121109EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/09/12 6:43:54 PM
Data Type: Reprocessed on 11/11/12 1:47:57 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121109EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 338.289	63273.8	492.8 ug/L	6.57	492.8 ug/L	6.57	1.33%
QC value within limits for Ag 338.289 Recovery = 98.56%						
Al 308.215	32369.0	18870 ug/L	139.7	18870 ug/L	139.7	0.74%
QC value within limits for Al 308.215 Recovery = 94.36%						
As 188.979	5082.6	1015 ug/L	6.8	1015 ug/L	6.8	0.67%
QC value within limits for As 188.979 Recovery = 101.47%						
B	3908.1	876.1 ug/L	7.35	876.1 ug/L	7.35	0.84%
QC value less than the lower limit for B Recovery = 87.61%						
Ba 233.527	173560.8	997.4 ug/L	5.90	997.4 ug/L	5.90	0.59%
QC value within limits for Ba 233.527 Recovery = 99.74%						
Be 313.107	6468549.6	1016 ug/L	2.8	1016 ug/L	2.8	0.28%
QC value within limits for Be 313.107 Recovery = 101.65%						
Ca 315.887	582752.3	48660 ug/L	300.7	48660 ug/L	300.7	0.62%
QC value within limits for Ca 315.887 Recovery = 97.31%						
Cd 214.440	371276.9	1034 ug/L	6.0	1034 ug/L	6.0	0.58%
QC value within limits for Cd 214.440 Recovery = 103.44%						
Co 228.616	71935.6	1020 ug/L	7.6	1020 ug/L	7.6	0.74%
QC value within limits for Co 228.616 Recovery = 101.95%						
Cr 267.716	147394.4	1018 ug/L	6.6	1018 ug/L	6.6	0.64%
QC value within limits for Cr 267.716 Recovery = 101.82%						
Cu 327.393	103181.9	977.7 ug/L	11.39	977.7 ug/L	11.39	1.16%
QC value within limits for Cu 327.393 Recovery = 97.77%						
Fe 273.955	554832.2	20260 ug/L	116.2	20260 ug/L	116.2	0.57%
QC value within limits for Fe 273.955 Recovery = 101.29%						
K 766.490	41084.1	21610 ug/L	96.1	21610 ug/L	96.1	0.44%
QC value within limits for K 766.490 Recovery = 108.04%						
Mg 285.213	954876.7	46200 ug/L	244.3	46200 ug/L	244.3	0.53%
QC value within limits for Mg 285.213 Recovery = 92.41%						
Mn 257.610	55687.9	975.4 ug/L	7.52	975.4 ug/L	7.52	0.77%
QC value within limits for Mn 257.610 Recovery = 97.54%						
Mo 202.031	45038.9	1032 ug/L	5.7	1032 ug/L	5.7	0.55%
QC value within limits for Mo 202.031 Recovery = 103.20%						
Na 589.592	331474.9	26710 ug/L	150.3	26710 ug/L	150.3	0.56%
QC value within limits for Na 589.592 Recovery = 106.83%						
Ni 231.604	67889.8	1025 ug/L	7.5	1025 ug/L	7.5	0.73%
QC value within limits for Ni 231.604 Recovery = 102.54%						
P 213.617	35735.1	5147 ug/L	49.4	5147 ug/L	49.4	0.96%
QC value within limits for P 213.617 Recovery = 102.95%						
Pb 220.353	15913.7	1037 ug/L	8.5	1037 ug/L	8.5	0.82%
QC value within limits for Pb 220.353 Recovery = 103.69%						
Sb 206.836	6063.9	1014 ug/L	7.1	1014 ug/L	7.1	0.70%
QC value within limits for Sb 206.836 Recovery = 101.36%						
Se 196.026	5015.2	1016 ug/L	11.5	1016 ug/L	11.5	1.13%
QC value within limits for Se 196.026 Recovery = 101.57%						
Sn 189.927	7801.7	1086 ug/L	2.0	1086 ug/L	2.0	0.18%
QC value within limits for Sn 189.927 Recovery = 108.58%						
Sr 421.552	988247.3	1036 ug/L	6.5	1036 ug/L	6.5	0.63%
QC value within limits for Sr 421.552 Recovery = 103.57%						
Ti 337.279	38228.3	913.8 ug/L	4.98	913.8 ug/L	4.98	0.54%
QC value within limits for Ti 337.279 Recovery = 91.38%						
Tl 190.801	6553.3	985.3 ug/L	5.78	985.3 ug/L	5.78	0.59%
QC value within limits for Tl 190.801 Recovery = 98.53%						
V 292.402	248866.8	1029 ug/L	7.1	1029 ug/L	7.1	0.69%
QC value within limits for V 292.402 Recovery = 102.91%						
Zn 206.200	101569.6	1051 ug/L	4.5	1051 ug/L	4.5	0.43%
QC value within limits for Zn 206.200 Recovery = 105.13%						

QC Failed. Continue with analysis.

Sequence No.: 108
Sample ID: CCB 121109EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/09/12 6:49:08 PM
Data Type: Reprocessed on 11/11/12 1:47:59 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121109EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-119.5	-0.930	ug/L	0.8200	-0.930	ug/L	0.8200	88.14%
QC value less than the lower limit for Ag 338.289 Recovery = Not calculated								
Al 308.215	-18.0	-10.52	ug/L	1.604	-10.52	ug/L	1.604	15.25%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	-0.4	-0.081	ug/L	0.9631	-0.081	ug/L	0.9631	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B	34.6	7.276	ug/L	2.2217	7.276	ug/L	2.2217	30.53%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	24.5	0.140	ug/L	0.0280	0.140	ug/L	0.0280	19.97%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-738.3	-0.116	ug/L	0.0132	-0.116	ug/L	0.0132	11.35%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	1600.2	133.6	ug/L	9.32	133.6	ug/L	9.32	6.98%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	22.8	0.063	ug/L	0.0099	0.063	ug/L	0.0099	15.64%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	28.2	0.397	ug/L	0.1675	0.397	ug/L	0.1675	42.22%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	26.8	0.182	ug/L	0.1718	0.182	ug/L	0.1718	94.23%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	169.8	1.609	ug/L	0.2629	1.609	ug/L	0.2629	16.34%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	60.4	2.284	ug/L	1.0574	2.284	ug/L	1.0574	46.30%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-3.0	-1.596	ug/L	105.9292	-1.596	ug/L	105.9292	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	87.9	4.250	ug/L	0.8325	4.250	ug/L	0.8325	19.59%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	13.6	0.238	ug/L	0.2006	0.238	ug/L	0.2006	84.18%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-0.3	-0.007	ug/L	0.1110	-0.007	ug/L	0.1110	>999.9%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	2561.2	206.5	ug/L	8.87	206.5	ug/L	8.87	4.29%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-32.1	-0.487	ug/L	0.2954	-0.487	ug/L	0.2954	60.69%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-25.9	-3.726	ug/L	0.7170	-3.726	ug/L	0.7170	19.24%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	6.0	0.390	ug/L	0.2697	0.390	ug/L	0.2697	69.16%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-9.2	-1.536	ug/L	1.1685	-1.536	ug/L	1.1685	76.06%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-17.3	-3.497	ug/L	0.6999	-3.497	ug/L	0.6999	20.01%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	11.5	1.598	ug/L	0.1272	1.598	ug/L	0.1272	7.96%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-7.1	-0.009	ug/L	0.1597	-0.009	ug/L	0.1597	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	52.2	1.250	ug/L	0.5238	1.250	ug/L	0.5238	41.92%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	12.8	1.927	ug/L	0.4811	1.927	ug/L	0.4811	24.96%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-211.1	-0.858	ug/L	0.7516	-0.858	ug/L	0.7516	87.61%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-193.5	-1.980	ug/L	0.0874	-1.980	ug/L	0.0874	4.42%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 115
Sample ID: CCV2 121109EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 11/09/12 7:24:23 PM
Data Type: Reprocessed on 11/11/12 1:48:06 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121109EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	48003.8	373.9	ug/L	6.04	373.9	ug/L	6.04	1.62%
QC value within limits for Ag 338.289 Recovery = 99.70%								
Al 308.215	25086.5	14630	ug/L	7.5	14630	ug/L	7.5	0.05%
QC value within limits for Al 308.215 Recovery = 97.51%								
As 188.979	3901.1	778.8	ug/L	2.36	778.8	ug/L	2.36	0.30%
QC value within limits for As 188.979 Recovery = 103.84%								
B	3084.6	690.1	ug/L	1.86	690.1	ug/L	1.86	0.27%
QC value within limits for B Recovery = 92.01%								
Ba 233.527	132237.5	759.9	ug/L	10.71	759.9	ug/L	10.71	1.41%
QC value within limits for Ba 233.527 Recovery = 101.32%								
Be 313.107	4929224.6	774.6	ug/L	4.22	774.6	ug/L	4.22	0.54%
QC value within limits for Be 313.107 Recovery = 103.28%								
Ca 315.887	434478.8	36280	ug/L	302.1	36280	ug/L	302.1	0.83%
QC value within limits for Ca 315.887 Recovery = 96.73%								
Cd 214.440	285930.9	796.6	ug/L	11.23	796.6	ug/L	11.23	1.41%
QC value within limits for Cd 214.440 Recovery = 106.21%								
Co 228.616	54969.8	779.0	ug/L	12.94	779.0	ug/L	12.94	1.66%
QC value within limits for Co 228.616 Recovery = 103.87%								
Cr 267.716	112448.4	776.8	ug/L	8.28	776.8	ug/L	8.28	1.07%
QC value within limits for Cr 267.716 Recovery = 103.57%								
Cu 327.393	78062.9	739.7	ug/L	13.46	739.7	ug/L	13.46	1.82%
QC value within limits for Cu 327.393 Recovery = 98.63%								
Fe 273.955	424045.0	15480	ug/L	221.5	15480	ug/L	221.5	1.43%
QC value within limits for Fe 273.955 Recovery = 103.22%								
K 766.490	29970.0	15760	ug/L	107.5	15760	ug/L	107.5	0.68%
QC value within limits for K 766.490 Recovery = 105.08%								
Mg 285.213	714627.7	34580	ug/L	295.5	34580	ug/L	295.5	0.85%
QC value within limits for Mg 285.213 Recovery = 92.21%								
Mn 257.610	44045.7	771.5	ug/L	0.95	771.5	ug/L	0.95	0.12%
QC value within limits for Mn 257.610 Recovery = 102.87%								
Mo 202.031	33677.5	771.7	ug/L	13.16	771.7	ug/L	13.16	1.71%
QC value within limits for Mo 202.031 Recovery = 102.89%								
Na 589.592	247731.0	19960	ug/L	139.2	19960	ug/L	139.2	0.70%
QC value within limits for Na 589.592 Recovery = 106.46%								
Ni 231.604	52269.8	789.4	ug/L	11.03	789.4	ug/L	11.03	1.40%
QC value within limits for Ni 231.604 Recovery = 105.26%								
P 213.617	26809.1	3862	ug/L	64.5	3862	ug/L	64.5	1.67%
QC value within limits for P 213.617 Recovery = 102.98%								
Pb 220.353	12355.7	805.1	ug/L	0.71	805.1	ug/L	0.71	0.09%
QC value within limits for Pb 220.353 Recovery = 107.34%								
Sb 206.836	4616.3	771.6	ug/L	3.26	771.6	ug/L	3.26	0.42%
QC value within limits for Sb 206.836 Recovery = 102.89%								
Se 196.026	3847.9	779.3	ug/L	2.19	779.3	ug/L	2.19	0.28%
QC value within limits for Se 196.026 Recovery = 103.90%								
Sn 189.927	6128.1	852.9	ug/L	2.85	852.9	ug/L	2.85	0.33%
QC value greater than the upper limit for Sn 189.927 Recovery = 113.72%								
Sr 421.552	729337.0	764.4	ug/L	5.99	764.4	ug/L	5.99	0.78%
QC value within limits for Sr 421.552 Recovery = 101.92%								
Ti 337.279	29143.5	696.7	ug/L	1.99	696.7	ug/L	1.99	0.29%
QC value within limits for Ti 337.279 Recovery = 92.89%								
Tl 190.801	5081.5	764.0	ug/L	3.82	764.0	ug/L	3.82	0.50%
QC value within limits for Tl 190.801 Recovery = 101.87%								
V 292.402	188943.9	781.2	ug/L	10.65	781.2	ug/L	10.65	1.36%
QC value within limits for V 292.402 Recovery = 104.16%								
Zn 206.200	78427.5	811.6	ug/L	11.93	811.6	ug/L	11.93	1.47%
QC value within limits for Zn 206.200 Recovery = 108.22%								

QC Failed. Continue with analysis.

Sequence No.: 116
Sample ID: CCB 121109EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/09/12 7:31:05 PM
Data Type: Reprocessed on 11/11/12 1:48:07 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121109EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-87.3	-0.680	ug/L	0.3901	-0.680	ug/L	0.3901	57.37%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-24.6	-14.32	ug/L	6.986	-14.32	ug/L	6.986	48.79%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	1.5	0.305	ug/L	0.4015	0.305	ug/L	0.4015	131.62%
QC value within limits for As 188.979 Recovery = Not calculated								
B	25.6	5.372	ug/L	2.0804	5.372	ug/L	2.0804	38.73%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	38.5	0.223	ug/L	0.0156	0.223	ug/L	0.0156	7.01%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-926.3	-0.146	ug/L	0.0098	-0.146	ug/L	0.0098	6.72%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	1294.4	108.1	ug/L	6.53	108.1	ug/L	6.53	6.04%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	12.6	0.035	ug/L	0.0317	0.035	ug/L	0.0317	90.85%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	25.1	0.353	ug/L	0.1435	0.353	ug/L	0.1435	40.66%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	2.8	0.018	ug/L	0.1349	0.018	ug/L	0.1349	766.93%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	177.0	1.677	ug/L	0.4208	1.677	ug/L	0.4208	25.10%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	8.3	0.350	ug/L	0.5955	0.350	ug/L	0.5955	170.04%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-6.6	-3.485	ug/L	3.3009	-3.485	ug/L	3.3009	94.71%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	63.2	3.053	ug/L	0.3947	3.053	ug/L	0.3947	12.93%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	0.0	0.000	ug/L	0.0320	0.000	ug/L	0.0320	>999.9%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-18.5	-0.424	ug/L	0.2902	-0.424	ug/L	0.2902	68.39%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	2601.2	209.8	ug/L	6.56	209.8	ug/L	6.56	3.13%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-16.8	-0.255	ug/L	0.1515	-0.255	ug/L	0.1515	59.36%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-30.0	-4.326	ug/L	0.4303	-4.326	ug/L	0.4303	9.95%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	1.3	0.087	ug/L	0.8062	0.087	ug/L	0.8062	927.66%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-4.7	-0.787	ug/L	0.5966	-0.787	ug/L	0.5966	75.77%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-17.0	-3.452	ug/L	0.4333	-3.452	ug/L	0.4333	12.55%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	5.6	0.777	ug/L	0.7868	0.777	ug/L	0.7868	101.21%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	63.1	0.065	ug/L	0.1201	0.065	ug/L	0.1201	184.47%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	27.6	0.660	ug/L	0.3544	0.660	ug/L	0.3544	53.73%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.0	1.198	ug/L	0.1341	1.198	ug/L	0.1341	11.20%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-140.6	-0.578	ug/L	0.0877	-0.578	ug/L	0.0877	15.17%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-206.4	-2.114	ug/L	0.0865	-2.114	ug/L	0.0865	4.09%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 127
Sample ID: CCV1 121109EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/09/12 8:22:25 PM
Data Type: Reprocessed on 11/11/12 1:48:18 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121109EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	62292.3	485.2	ug/L	3.82	485.2	ug/L	3.82	0.79%
QC value within limits for Ag 338.289 Recovery = 97.04%								
Al 308.215	32381.4	18880	ug/L	166.5	18880	ug/L	166.5	0.88%
QC value within limits for Al 308.215 Recovery = 94.39%								
As 188.979	5155.9	1029	ug/L	11.8	1029	ug/L	11.8	1.15%
QC value within limits for As 188.979 Recovery = 102.93%								
B	4036.1	901.8	ug/L	4.28	901.8	ug/L	4.28	0.47%
QC value within limits for B Recovery = 90.18%								
Ba 233.527	170082.0	977.4	ug/L	4.27	977.4	ug/L	4.27	0.44%
QC value within limits for Ba 233.527 Recovery = 97.74%								
Be 313.107	6338346.8	996.0	ug/L	7.71	996.0	ug/L	7.71	0.77%
QC value within limits for Be 313.107 Recovery = 99.60%								
Ca 315.887	554901.6	46330	ug/L	419.3	46330	ug/L	419.3	0.90%
QC value within limits for Ca 315.887 Recovery = 92.66%								
Cd 214.440	365829.4	1019	ug/L	6.5	1019	ug/L	6.5	0.64%
QC value within limits for Cd 214.440 Recovery = 101.92%								
Co 228.616	70610.0	1001	ug/L	4.9	1001	ug/L	4.9	0.49%
QC value within limits for Co 228.616 Recovery = 100.08%								
Cr 267.716	145131.6	1003	ug/L	4.7	1003	ug/L	4.7	0.46%
QC value within limits for Cr 267.716 Recovery = 100.26%								
Cu 327.393	101693.5	963.6	ug/L	7.97	963.6	ug/L	7.97	0.83%
QC value within limits for Cu 327.393 Recovery = 96.36%								
Fe 273.955	543426.2	19840	ug/L	91.6	19840	ug/L	91.6	0.46%
QC value within limits for Fe 273.955 Recovery = 99.21%								
K 766.490	42238.1	22220	ug/L	266.4	22220	ug/L	266.4	1.20%
QC value greater than the upper limit for K 766.490 Recovery = 111.08%								
Mg 285.213	925502.3	44780	ug/L	412.8	44780	ug/L	412.8	0.92%
QC value less than the lower limit for Mg 285.213 Recovery = 89.56%								
Mn 257.610	56760.5	994.3	ug/L	7.29	994.3	ug/L	7.29	0.73%
QC value within limits for Mn 257.610 Recovery = 99.43%								
Mo 202.031	44920.6	1029	ug/L	9.6	1029	ug/L	9.6	0.93%
QC value within limits for Mo 202.031 Recovery = 102.93%								
Na 589.592	318970.9	25700	ug/L	266.8	25700	ug/L	266.8	1.04%
QC value within limits for Na 589.592 Recovery = 102.80%								
Ni 231.604	66929.1	1011	ug/L	5.2	1011	ug/L	5.2	0.51%
QC value within limits for Ni 231.604 Recovery = 101.08%								
P 213.617	36144.0	5206	ug/L	60.0	5206	ug/L	60.0	1.15%
QC value within limits for P 213.617 Recovery = 104.13%								
Pb 220.353	16205.2	1056	ug/L	18.2	1056	ug/L	18.2	1.72%
QC value within limits for Pb 220.353 Recovery = 105.59%								
Sb 206.836	5929.0	991.1	ug/L	9.36	991.1	ug/L	9.36	0.94%
QC value within limits for Sb 206.836 Recovery = 99.11%								
Se 196.026	5087.0	1030	ug/L	8.4	1030	ug/L	8.4	0.81%
QC value within limits for Se 196.026 Recovery = 103.02%								
Sn 189.927	8349.8	1162	ug/L	17.8	1162	ug/L	17.8	1.53%
QC value greater than the upper limit for Sn 189.927 Recovery = 116.21%								
Sr 421.552	936672.7	981.7	ug/L	9.98	981.7	ug/L	9.98	1.02%
QC value within limits for Sr 421.552 Recovery = 98.17%								
Ti 337.279	37706.9	901.4	ug/L	7.15	901.4	ug/L	7.15	0.79%
QC value within limits for Ti 337.279 Recovery = 90.14%								
Tl 190.801	6489.0	975.6	ug/L	8.95	975.6	ug/L	8.95	0.92%
QC value within limits for Tl 190.801 Recovery = 97.56%								
V 292.402	245558.1	1016	ug/L	4.3	1016	ug/L	4.3	0.43%
QC value within limits for V 292.402 Recovery = 101.56%								
Zn 206.200	100659.7	1042	ug/L	5.1	1042	ug/L	5.1	0.49%
QC value within limits for Zn 206.200 Recovery = 104.18%								

QC Failed. Continue with analysis.

Sequence No.: 128
Sample ID: CCB 121109EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/09/12 8:25:30 PM
Data Type: Reprocessed on 11/11/12 1:48:19 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121109EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-102.3	-0.797	ug/L	0.5408	-0.797	ug/L	0.5408	67.86%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-11.7	-6.891	ug/L	0.8029	-6.891	ug/L	0.8029	11.65%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	-6.8	-1.349	ug/L	0.7895	-1.349	ug/L	0.7895	58.51%
QC value within limits for As 188.979 Recovery = Not calculated								
B	32.4	6.815	ug/L	1.2770	6.815	ug/L	1.2770	18.74%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	56.3	0.325	ug/L	0.1372	0.325	ug/L	0.1372	42.24%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-1165.5	-0.183	ug/L	0.0211	-0.183	ug/L	0.0211	11.52%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	808.8	67.53	ug/L	9.791	67.53	ug/L	9.791	14.50%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	50.7	0.141	ug/L	0.0256	0.141	ug/L	0.0256	18.12%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	39.9	0.564	ug/L	0.2032	0.564	ug/L	0.2032	36.04%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	30.2	0.206	ug/L	0.1408	0.206	ug/L	0.1408	68.46%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	159.1	1.508	ug/L	0.2903	1.508	ug/L	0.2903	19.26%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	41.8	1.612	ug/L	0.9960	1.612	ug/L	0.9960	61.80%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	253.7	133.5	ug/L	59.44	133.5	ug/L	59.44	44.51%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	125.6	6.071	ug/L	1.0174	6.071	ug/L	1.0174	16.76%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	11.4	0.200	ug/L	0.1165	0.200	ug/L	0.1165	58.29%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	1.7	0.039	ug/L	0.2062	0.039	ug/L	0.2062	535.43%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	1722.8	138.9	ug/L	4.54	138.9	ug/L	4.54	3.27%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-47.2	-0.717	ug/L	0.1783	-0.717	ug/L	0.1783	24.86%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-34.5	-4.964	ug/L	0.7234	-4.964	ug/L	0.7234	14.57%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	13.7	0.894	ug/L	0.0551	0.894	ug/L	0.0551	6.17%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-11.9	-1.982	ug/L	0.6894	-1.982	ug/L	0.6894	34.79%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-15.5	-3.145	ug/L	1.6177	-3.145	ug/L	1.6177	51.44%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	8.6	1.196	ug/L	0.6584	1.196	ug/L	0.6584	55.04%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	128.1	0.134	ug/L	0.0223	0.134	ug/L	0.0223	16.66%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	26.2	0.626	ug/L	0.2741	0.626	ug/L	0.2741	43.81%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	20.8	3.133	ug/L	0.6188	3.133	ug/L	0.6188	19.75%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-255.7	-1.037	ug/L	0.2073	-1.037	ug/L	0.2073	19.99%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-193.2	-1.976	ug/L	0.1475	-1.976	ug/L	0.1475	7.47%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/08/12	11/09/12	#6010B-121108B-AY71477

Sequence No.: 113
Sample ID: 121108B-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 26
Date Collected: 11/09/12 7:12:44 PM
Data Type: Reprocessed on 11/11/12 1:48:04 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121108B-3050-BLK

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-215.6	-1.679	ug/L	0.4535	-0.067	mg/kg	0.0181	27.01%
Al 308.215	-16.9	-9.896	ug/L	1.8146	-0.396	mg/kg	0.0726	18.34%
As 188.979	-0.9	-0.174	ug/L	1.0062	-0.007	mg/kg	0.0402	576.96%
B	25.9	5.449	ug/L	0.9210	0.218	mg/kg	0.0368	16.90%
Ba 233.527	36.9	0.211	ug/L	0.0998	0.008	mg/kg	0.0040	47.25%
Be 313.107	-804.3	-0.126	ug/L	0.0053	-0.005	mg/kg	0.0002	4.23%
Ca 315.887	854.0	71.30	ug/L	5.668	2.852	mg/kg	0.2267	7.95%
Cd 214.440	145.4	0.406	ug/L	0.0596	0.016	mg/kg	0.0024	14.68%
Co 228.616	28.5	0.402	ug/L	0.2865	0.016	mg/kg	0.0115	71.26%
Cr 267.716	76.1	0.524	ug/L	0.0796	0.021	mg/kg	0.0032	15.18%
Cu 327.393	277.2	2.626	ug/L	0.1067	0.105	mg/kg	0.0043	4.06%
Fe 273.955	100.5	3.726	ug/L	0.9219	0.149	mg/kg	0.0369	24.74%
K 766.490	242.5	127.7	ug/L	97.61	5.107	mg/kg	3.9043	76.45%
Mg 285.213	101.3	4.895	ug/L	0.4053	0.196	mg/kg	0.0162	8.28%
Mn 257.610	4.0	0.069	ug/L	0.1516	0.003	mg/kg	0.0061	218.99%
Mo 202.031	39.6	0.905	ug/L	0.1584	0.036	mg/kg	0.0063	17.51%
Na 589.592	2358.1	190.1	ug/L	16.87	7.604	mg/kg	0.6748	8.87%
Ni 231.604	-110.5	-1.671	ug/L	0.3170	-0.067	mg/kg	0.0127	18.97%
P 213.617	269.8	38.86	ug/L	0.605	1.554	mg/kg	0.0242	1.56%
Pb 220.353	-34.5	-2.247	ug/L	0.2873	-0.090	mg/kg	0.0115	12.79%
Sb 206.836	0.1	0.010	ug/L	0.6194	0.000	mg/kg	0.0248	>999.9%
Se 196.026	-30.3	-6.130	ug/L	1.5357	-0.245	mg/kg	0.0614	25.05%
Sn 189.927	-20.7	-2.886	ug/L	0.3196	-0.115	mg/kg	0.0128	11.08%
Sr 421.552	79.6	0.083	ug/L	0.0754	0.003	mg/kg	0.0030	90.83%
Ti 337.279	68.5	1.638	ug/L	0.1317	0.066	mg/kg	0.0053	8.04%
Tl 190.801	-7.4	-1.110	ug/L	0.2089	-0.044	mg/kg	0.0084	18.82%
V 292.402	-132.4	-0.523	ug/L	0.1064	-0.021	mg/kg	0.0043	20.35%
Zn 206.200	40.9	0.428	ug/L	0.0329	0.017	mg/kg	0.0013	7.68%

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.0	10.4	104	80-120	11/08/12	11/09/12	#6010B-121108B-AY71477

Comments: _____

Sequence No.: 114
Sample ID: 121108B-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 27
Date Collected: 11/09/12 7:17:05 PM
Data Type: Reprocessed on 11/11/12 1:48:05 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121108B-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	10474.1	81.58	ug/L	1.503	3.263	mg/kg	0.0601	1.84%
Al 308.215	3049.0	1779	ug/L	11.7	71.17	mg/kg	0.470	0.66%
As 188.979	1206.2	240.8	ug/L	0.60	9.633	mg/kg	0.0239	0.25%
B	1040.1	220.1	ug/L	0.18	8.804	mg/kg	0.0072	0.08%
Ba 233.527	41475.4	240.6	ug/L	4.15	9.625	mg/kg	0.1660	1.72%
Be 313.107	313339.8	49.24	ug/L	1.032	1.970	mg/kg	0.0413	2.10%
Ca 315.887	279582.5	23340	ug/L	326.1	933.8	mg/kg	13.04	1.40%
Cd 214.440	18281.0	51.06	ug/L	0.068	2.042	mg/kg	0.0027	0.13%
Co 228.616	18454.2	261.6	ug/L	0.43	10.46	mg/kg	0.017	0.16%
Cr 267.716	37755.2	260.6	ug/L	4.51	10.43	mg/kg	0.180	1.73%
Cu 327.393	25389.9	240.6	ug/L	5.33	9.624	mg/kg	0.2133	2.22%
Fe 273.955	27185.3	974.6	ug/L	17.24	38.98	mg/kg	0.689	1.77%
K 766.490	9409.2	4951	ug/L	126.5	198.0	mg/kg	5.06	2.55%
Mg 285.213	447071.8	21620	ug/L	259.8	864.9	mg/kg	10.39	1.20%
Mn 257.610	14274.8	249.3	ug/L	0.83	9.971	mg/kg	0.0334	0.33%
Mo 202.031	11532.9	263.9	ug/L	0.55	10.56	mg/kg	0.022	0.21%
Na 589.592	311268.8	25090	ug/L	317.1	1004	mg/kg	12.7	1.26%
Ni 231.604	17214.6	259.9	ug/L	0.09	10.40	mg/kg	0.004	0.04%
P 213.617	13744.7	1980	ug/L	6.0	79.19	mg/kg	0.239	0.30%
Pb 220.353	3996.1	260.4	ug/L	1.12	10.42	mg/kg	0.045	0.43%
Sb 206.836	1430.4	239.1	ug/L	0.55	9.564	mg/kg	0.0219	0.23%
Se 196.026	1097.9	222.3	ug/L	0.70	8.893	mg/kg	0.0279	0.31%
Sn 189.927	2105.5	293.0	ug/L	1.83	11.72	mg/kg	0.073	0.63%
Sr 421.552	231686.2	242.7	ug/L	3.19	9.709	mg/kg	0.1278	1.32%
Ti 337.279	9589.2	229.1	ug/L	0.74	9.163	mg/kg	0.0296	0.32%
Tl 190.801	1598.7	240.4	ug/L	1.58	9.615	mg/kg	0.0631	0.66%
V 292.402	62723.7	260.5	ug/L	4.36	10.42	mg/kg	0.174	1.67%
Zn 206.200	51116.3	527.2	ug/L	9.63	21.09	mg/kg	0.385	1.83%

Metals Standards Log Book # 36 Page # 035

BC 11/9/12

6010 B-C

(A)

1%HNO3 / 5%HCl BLK				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	EMD	UN1789-265	10/22/12
20 mL	HNO3	JT BAKER	L10023-266	10/24/12
Prepared in 2000 ml DI Water				
STD 1 / LDL 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
STD 3 / HDL 6010B/6010C				
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15
Prepared in 100 ml 1%HNO3 / 5%HCl				
STD 2 / CCV1 6010B/6010C/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
25mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	
CCV2 6010B/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
15mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	

BC 11/9/12

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICSAB				
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICV				
0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 1%HNO3/5%HCl				

BC 11/11/12

6010 B-C

(A)

1%HNO3 / 5%HCl BLK				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	EMD	UN1789-265	10/22/12
20 mL	HNO3	JT BAKER	L10023-266	10/24/12
Prepared in 2000 ml DI Water				
STD 1 / LDL 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.5 mL	6010 LDL	O2SI	1039165-31300	10/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
STD 3 / HDL 6010B/6010C				
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15
Prepared in 100 ml 1%HNO3 / 5%HCl				
STD 2 / CCV1 6010B/6010C/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
25mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	
CCV2 6010B/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
15mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	

BC 11/11/12

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICSAB				
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICV				
0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 1%HNO3/5%HCl				

BC 11/12/12

6020 /6020A

(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A

Today's Date: 11/12/12
Expires: 11/19/12

Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL Di Water
Lot #L12065
20 mL HCL / 2000mL Di Water
Lot #51358
Expires 11/19/12

Internal Standard Mix: Prep 11/09/2012

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1.0% HCL 11/12/12

Standard 3 11/19/12

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	ABS STDS	012512-30926
25 uL	CCV-B	ABS STDS	021312-30928
25 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1 0% HCL 11/12/12

Intermediate-Sb 11/19/12
100 uL of Sb STD (CPI 12A011-30298) in 10 mL of 1% HNO3/1 0% HCL

ICV-Sb 11/19/12
100 uL of Intermediate-Sb in 10 mL of 1% HNO3/1.0% HCL

BC 11/12/12

Standard 2 11/19/12

Amount	STD		
500 uL	Standard 4		11/12/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/12/12

Standard 1 11/19/12

Amount	STD	
50 uL	Standard 4	11/12/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/12/12

ICP-MS ICV 11/19/12

Amount	STD		
50 uL	QCS ICV A	CPI	11C184-30611
50 uL	QCS ICV B	CPI	11C184-30612

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/12/12

ICSA Prep: 11/19/12

1 mL	ICSA	CPI	12I082-31307

Prepared in 5 mL of 1% HNO3/1 0% HCL 11/12/12

ICSAB Prep: 11/19/12

1mL	ICSA	CPI	12I082-31307
0.025mL	INT	O2Si	1032370-30265

Prepared in 5 mL of 1% HNO3/1 0% HCL 11/12/12

ICP-LDR 11/19/12

Amount	STD		
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 10 mL of 1% HNO3/1.0% HCL 11/12/12

_M3050

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121108B **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 1037547-31170		
Spiked ID 2	LCSW LOT# 1037545-31167		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	11/08/12 9:30:00 AM
Witnessed By	LO	Date:	11/08/12 9:30:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	11/08/12 14:30

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121108B Blk				2.50g	100mL	11/08/12 9:30	equip: Modblock4
2	121108B LCS		1mL	1+2	2.50g	100mL	11/08/12 9:30	equip: Modblock4
3	AY71473	AY71473M01			2.58g	100mL	11/08/12 9:30	equip: Modblock4
4	AY71474	AY71474M01			2.54g	100mL	11/08/12 9:30	equip: Modblock4
5	AY71475	AY71475M01			2.56g	100mL	11/08/12 9:30	equip: Modblock4
6	AY71476	AY71476M01			2.48g	100mL	11/08/12 9:30	equip: Modblock4
7	AY71477	AY71477M01			2.45g	100mL	11/08/12 9:30	equip: Modblock4
8	AY71477 MS	AY71477M01	2mL	1+2	2.45g	100mL	11/08/12 9:30	equip: Modblock4
9	AY71477 MSD	AY71477M01	2mL	1+2	2.45g	100mL	11/08/12 9:30	equip: Modblock4

Solvent and Lot#
:1 HNO3 11-8-12
HNO3 J.T.B. L10023 0271
H2O2 J.T.B K20J00 0254
HCL EMD Lot# 4112032 0270

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	EA
Date	11-8-12
Time	14:30
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	11/08/12 9:51:56 AM

Reviewed By: EA **Date:** 11-8-12

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	09 Nov 2012	10:31	CalBlk 121109EA I:PB O:EA		121109A6010	1.
2	09 Nov 2012	10:35	STD 1 121109EA I:PB O:EA		121109A6010	1.
3	09 Nov 2012	10:40	STD 2 121109EA I:PB O:EA		121109A6010	1.
4	09 Nov 2012	10:42	STD 3 121109EA I:PB O:EA		121109A6010	1.
5	09 Nov 2012	10:46	ICV 121109EA I:PB O:EA		121109A6010	1.
6	09 Nov 2012	10:49	ICB 121109EA I:PB O:EA		121109A6010	1.
8	09 Nov 2012	10:58	ICSA 121109EA I:PB O:EA		121109A6010	1.
9	09 Nov 2012	11:02	ICSAB 121109EA I:PB O:EA		121109A6010	1.
10	09 Nov 2012	11:06	CCV1 121109EA I:PB O:EA		121109A6010	1.
11	09 Nov 2012	11:09	CCB 121109EA I:PB O:EA		121109A6010	1.
107	09 Nov 2012	18:43	CCV1 121109EA I:PB O:EA		121109A6010	1.
108	09 Nov 2012	18:49	CCB 121109EA I:PB O:EA		121109A6010	1.
113	09 Nov 2012	19:12	121108B-3050-BLK		121109A6010	1.
114	09 Nov 2012	19:17	121108B-3050-LCS		121109A6010	1.
115	09 Nov 2012	19:24	CCV2 121109EA I:PB O:EA		121109A6010	1.
116	09 Nov 2012	19:31	CCB 121109EA I:PB O:EA		121109A6010	1.
117	09 Nov 2012	19:35	AY71473M01		121109A6010	1.
118	09 Nov 2012	19:40	AY71474M01		121109A6010	1.
119	09 Nov 2012	19:45	AY71475M01		121109A6010	1.
120	09 Nov 2012	19:49	AY71476M01		121109A6010	1.
121	09 Nov 2012	19:54	AY71477M01		121109A6010	1.
124	09 Nov 2012	20:07	AY71477M01-A		121109A6010	1.
127	09 Nov 2012	20:22	CCV1 121109EA I:PB O:EA		121109A6010	1.
128	09 Nov 2012	20:25	CCB 121109EA I:PB O:EA		121109A6010	1.

Wetlab Results

ARF: 69229

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
APPL ID: AY71473 -Client Sample ID: GT12016M			-Sample Collection Date: 11/03/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	74.4	2.0	%	11/12/12	11/13/12
APPL ID: AY71474 -Client Sample ID: GT12018M			-Sample Collection Date: 11/03/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	74.9	2.0	%	11/12/12	11/13/12
APPL ID: AY71475 -Client Sample ID: GT12012M			-Sample Collection Date: 11/04/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	76.8	2.0	%	11/12/12	11/13/12
APPL ID: AY71476 -Client Sample ID: GT12014M			-Sample Collection Date: 11/04/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	76.6	2.0	%	11/12/12	11/13/12
APPL ID: AY71477 -Client Sample ID: GT12020M			-Sample Collection Date: 11/05/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	76.2	2.0	%	11/12/12	11/13/12

Printed: 11/16/12 3:14:40 PM

% Moisture

Batch: QCG 121112-M004544

Method: CLP 4.0

Date: 11/12/12 16:30

Sample	Container	Pan (g)	Pan+Wet (g)	Pan+Dry 1 (g)	Pan+Dry 2 (g)	Moisture (%)	Comments
AY71487	m01	0.8313 11/12/12 16:30	6.3056 11/12/12 16:31	2.4908 11/13/12 07:37	2.4908 11/13/12 07:37	69.686	AY71487M01
AY71485	m01	0.8400 11/12/12 16:28	5.9705 11/12/12 16:30	2.4098 11/13/12 07:36	2.4098 11/13/12 07:36	69.403	AY71485M01
AY71483	m01	0.8374 11/12/12 16:27	6.8427 11/12/12 16:28	2.6203 11/13/12 07:36	2.6206 11/13/12 07:36	70.306	AY71483M01
AY71481	m01	0.8320 11/12/12 16:26	7.5693 11/12/12 16:27	2.7322 11/13/12 07:36	2.7321 11/13/12 07:36	71.797	AY71481M01
AY71479	m01	0.8358 11/12/12 16:25	6.7191 11/12/12 16:26	2.4954 11/13/12 07:36	2.4953 11/13/12 07:36	71.793	AY71479M01
AY71477	m01	0.8390 11/12/12 16:24	6.2456 11/12/12 16:25	2.1237 11/13/12 07:36	2.1237 11/13/12 07:36	76.238	AY71477M01
AY71476	m01	0.8482 11/12/12 16:22	6.3242 11/12/12 16:23	2.1303 11/13/12 07:35	2.1303 11/13/12 07:35	76.587	AY71476M01
AY71475	m01	0.8408 11/12/12 16:20	6.6633 11/12/12 16:21	2.1926 11/13/12 07:35	2.1926 11/13/12 07:35	76.783	AY71475M01
AY71474	m01	0.8344 11/12/12 16:16	7.0596 11/12/12 16:19	2.3955 11/13/12 07:35	2.3956 11/13/12 07:35	74.921	AY71474M01
AY71473D	m01	0.8361 11/12/12 16:15	6.6488 11/12/12 16:16	2.3239 11/13/12 07:35	2.3240 11/13/12 07:35	74.403	AY71473M01
AY71473	m01	0.8404 11/12/12 16:12	6.6820 11/12/12 16:15	2.3334 11/13/12 07:35	2.3333 11/13/12 07:35	74.444	AY71473M01

Date/Time InOven@104°C	Date/Time OutOven@104°C	Date/Time InOven@104°C	Date/Time OutOven@104°C
11/12/12 4:32:00 PM			11/13/12 7:35:00 AM

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
11/9/12	BB	Mettler AT200	0.5g	0.5001 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0001 g	0.9990	1.0010	
		Mettler AT200	20g	20.0004 g	19.9800	20.0200	
		Mettler AT200	50g	50.0011 g	49.9500	50.0500	
		Mettler AT200	100g	100.0028 g	99.9000	100.1000	
		Mettler AT200	150g	150.0032 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
11/12/12	BB						Yes
		Mettler AT200	0.5g	0.5002 g	0.4995	0.5005	
		Mettler AT200	1g	1.0002 g	0.9990	1.0010	
		Mettler AT200	20g	20.0006 g	19.9800	20.0200	
		Mettler AT200	50g	50.0015 g	49.9500	50.0500	
		Mettler AT200	100g	100.0028 g	99.9000	100.1000	
		Mettler AT200	150g	150.0040 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
11/13/12	BB						Yes
		Mettler AT200	0.5g	0.5001 g	0.4995	0.5005	
		Mettler AT200	1g	1.0001 g	0.9990	1.0010	
		Mettler AT200	20g	20.0006 g	19.9800	20.0200	
		Mettler AT200	50g	50.0014 g	49.9500	50.0500	
		Mettler AT200	100g	100.0027 g	99.9000	100.1000	
		Mettler AT200	150g	150.0041 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
11/14/12	AP	Mettler AT200	0.5g	0.5001 g	0.4995	0.5005	yes
		Mettler AT200	1g	1.0002 g	0.9990	1.0010	
		Mettler AT200	20g	20.0006 g	19.9800	20.0200	
		Mettler AT200	50g	50.0013 g	49.9500	50.0500	
		Mettler AT200	100g	100.0023 g	99.9000	100.1000	
		Mettler AT200	150g	150.0034 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.99 g	1960.00	2040.00	

Laboratory Report

Parsons

Project #: 748350.02000 CSSA

ARF: 69230

Samples collected: November 3-5, 2012

APPL, Inc.

Data Validatable Package

for

Project #: 748350.02000 CSSA

ARF 69230

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Raw Data	80

CASE NARRATIVE

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

EPA Method 6010B - Lead
Case Narrative

ARF: 69230

Project: 748350.02000 CSSA

California State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Texas Certificate Number: T104704242-10-3

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

The samples were received November 7, 2012, at 1.5°C. The samples were assigned Analytical Request Form (ARF) number 69230. The sample numbers and requested analyses were compared to the chains of custody and email communications. No exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
GT12016B	AY71478	MISC	11/03/12	11/07/12
GT12016L	AY71479	MISC	11/03/12	11/07/12
GT12018B	AY71480	MISC	11/03/12	11/07/12
GT12018L	AY71481	MISC	11/03/12	11/07/12
GT12012B	AY71482	MISC	11/04/12	11/07/12
GT12012L	AY71483	MISC	11/04/12	11/07/12
GT12014B	AY71484	MISC	11/04/12	11/07/12
GT12014L	AY71485	MISC	11/04/12	11/07/12
GT12020B	AY71486	MISC	11/05/12	11/07/12
GT12020L	AY71487	MISC	11/05/12	11/07/12

Percent moisture was determined using CLP 4.0 for the liver samples. Percent moisture was not determined on the bone samples.

Digestion Information:

The liver samples were frozen and homogenized according to APPL's SOP PRE003. The bone samples were dried in the oven at 104°C; once dried, a drill was used to "shave" the bone and obtain a representative sample. For samples GT12012B, GT12014B and GT12020B, less than 2.5grams was digested because of the difficulty in shaving the bones. An aliquot of the homogenized liver sample and bone was digested according to EPA method 3050B. Since the laboratory was unable to obtain a similar clean matrix, the blank and the LCS were digested according to APPL's SOP PRE3050B. No other exception was encountered. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed according to EPA method 6010B using a Perkin Elmer Optima 5300DV ICP.

Calibrations:

Calibrations were performed according to the method for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard. All other calibration acceptance criteria were met.

Blanks:

No target metal was detected above the reporting limit (RL) in the method blanks.

Spikes:

Laboratory Control Spikes (LCS), post-digestion spike (PDS), and dilution test were used for quality assurance. All LCS acceptance criteria were met.

For the 121113A analytical batch, sample GT12021M (APPL SDG#69255) was selected as the QC sample. All PDS and dilution test recoveries are reported in APPL report 69255.

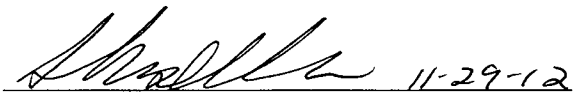
For the 121127A analytical batch, sample GT12029M (APPL SDG#69341) was selected as the QC sample. All PDS and dilution test recoveries are reported in APPL report 69341.

Summary:

No other analytical exception is noted.

CERTIFICATION

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. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.



11-29-12

Sharon Dehmlow, Laboratory Director / Date

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 69230

Client: **Parsons**
Address: **8000 Centre Park Drive Ste 200**
Austin, TX 78754
Attn: **Tammy Chang**
Phone: **512-719-6092** Fax: **512-719-6099**
Job: **748350.02000 CSSA**
PO #: **748350.30002 (prime *G012)**
Chain of Custody (Y/N): **Y** # **110612APPFA**
RAD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **STD**

Received by: **WLA**
Date Received: **11/07/12** Time: **11:15**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-6**
Chest Temp(s): **1.5°C**
Color: **A_FREZ**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Diane Anderson**
QC Report Type: **DVP4/AFCEE/ERPIMS/TX**
Due Date: **11/28/12**

Comments:
Prelim muscle (meat) data due in 7 calendar days; final report due in 21 calendar days.
pdf ARF to Tammy & Pam; send 1 DVP3 HC & send DVP3 & DVP4 on CD to Tammy.

Case Narrative. CSSA QAPP. Only report MS/MSD when requested.
Report results on APPL forms: U to the RL; report results in wet weight (without moisture correction)
Wait to do moisture analysis after metals analysis.
EDD: ERPIMS 4 Lab PC4 checked TXF to Pam.Ford@parsons.com

11-28-12

Sample Distribution:
Metals: 10-$6010BDODS(Pb)
Wetlab: 10-MOIST
Other: 10-_M3050

Charges:

Invoice To:
PARSONS GOV'T SERV.
8000 Centre Park Drive Ste 200
Austin, TX 78754-5140
Attn: Ellen Felfe

	Client ID	APPL ID	Sampled	Analyses Requested
1.	GT12016B	AY71478M	11/03/12 08:00	$6010BDODS(Pb), ~~MOIST~~
2.	GT12016L	AY71479M	11/03/12 08:00	$6010BDODS(Pb), MOIST
3.	GT12018B	AY71480M	11/03/12 09:20	$6010BDODS(Pb), ~~MOIST~~
4.	GT12018L	AY71481M	11/03/12 09:20	$6010BDODS(Pb), MOIST
5.	GT12012B	AY71482M	11/04/12 10:30	$6010BDODS(Pb), ~~MOIST~~
6.	GT12012L	AY71483M	11/04/12 10:30	$6010BDODS(Pb), MOIST
7.	GT12014B	AY71484M	11/04/12 17:45	$6010BDODS(Pb), ~~MOIST~~

Note: All times, excluding sample collection times, are Pacific Time Zone unless noted otherwise. Collection times are in: -6 UTC

8. GT12014L	AY71485M	11/04/12	17:45	$6010BDODS(Pb), MOIST
9. GT12020B	AY71486M	11/05/12	16:45	$6010BDODS(Pb), ~~MOIST~~
10. GT12020L	AY71487M	11/05/12	16:45	$6010BDODS(Pb), MOIST

APPL Sample Receipt Form

ARF# **69230**

Sample	Container Type	Count	pH
AY71478	35 Plastic Bag	1	NA
AY71479	35 Plastic Bag	1	NA
AY71480	35 Plastic Bag	1	NA
AY71481	35 Plastic Bag	1	NA
AY71482	35 Plastic Bag	1	NA
AY71483	35 Plastic Bag	1	NA
AY71484	35 Plastic Bag	1	NA
AY71485	35 Plastic Bag	1	NA
AY71486	35 Plastic Bag	1	NA
AY71487	35 Plastic Bag	1	NA

Sample	Container Type	Count	pH

APPL - Receiving

From: Renee Patterson [rpatterson@applinc.com]
Sent: Wednesday, November 07, 2012 7:43 AM
To: receiving@applinc.com; 'Leonard Fong'
Subject: FW: animal tissue samples. to APPL
Attachments: 110612APPFA_SAMPLES.TXT; 110612_APPL.pdf

Follow Up Flag: Follow up
Flag Status: Completed

From: Chang, Tammy [mailto:Tammy.Chang@parsons.com]
Sent: Tuesday, November 06, 2012 7:03 PM
To: Renee Patterson; Diane Anderson; rwise; Jeremy Hale; Sharon Dehmlow
Cc: Ford, Pamela; de las Fuentes, Sandra; Burdey, Julie; Rembish, Steve J
Subject: FW: animal tissue samps. to APPL

APPL Staff:
You will receive these animal samples on Wed morning via FedEx. The field ID ending with "L" means liver, "M" means muscle, and "B" means bone. Only muscle samples need to be rushed, preferable with **7 calendar days**. Liver and bone samples have 21 calendar days TAT.
No need to determine %moisture for these samples, just report as is, down to RL.

I will be out of office tomorrow, but may be reached at 512-590-1126 (cell). Sandra will be in the office. Feel free to contact us if you have any question. Warning: samples may smell bad. Cooler should be open under the hood, just in case it smells.

Tammy

From: Elliott, Samantha
Sent: Tuesday, November 06, 2012 4:18 PM
To: Chang, Tammy; de las Fuentes, Sandra
Subject: RE: animal tissue samps. to APPL

Everything on these should be correct, see attached.

From: Chang, Tammy
Sent: Tuesday, November 06, 2012 3:54 PM
To: Elliott, Samantha; de las Fuentes, Sandra
Subject: RE: animal tissue samps. to APPL

Yes, I will.

Another reason to give different sample ID for different parts of boy is lab will run muscle with fast TAT, bone and liver with normal TAT.

Tammy

From: Elliott, Samantha
Sent: Tuesday, November 06, 2012 3:52 PM

Camp Stanley Storage Activity Chain Of Custody

64229 1.5°C
64230

COC ID:	110612APPFA	Relinquish_Date:	11/6/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF
Job Number:	748350.02	Relinquish_Time:	3:30 PM	Carrier:	FedEx
Creation Date:	11/6/2012	Collection Team:	SE	Airbill Carrier:	876436444237
Task Manager	Steve Rembish	Sample Data Type	Screening	TAT:	7 Day TAT

Sampler(s): Sam Elliott
Sam Elliott

LOCID:	GT12016		LOGDATE:	11/3/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME: 8:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B	LEAD
SED:	0	FLDSAMPID	GT12016_110312_N0800				EBLOT:	Containers: 3		
Remarks:										

LOCID:	GT12018		LOGDATE:	11/3/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME: 9:20	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B	LEAD
SED:	0	FLDSAMPID	GT12018_110312_N0920				EBLOT:	Containers: 3		
Remarks:										

LOCID:	GT12012		LOGDATE:	11/4/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME: 10:30	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B	LEAD
SED:	0	FLDSAMPID	GT12012_110412_N1030				EBLOT:	Containers: 3		
Remarks:										

LOCID:	GT12014		LOGDATE:	11/4/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME: 17:45	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B	LEAD
SED:	0	FLDSAMPID	GT12014_110412_N1745				EBLOT:	Containers: 3		
Remarks:										

LOCID:	GT12020		LOGDATE:	11/5/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME: 16:45	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B	LEAD
SED:	0	FLDSAMPID	GT12020_110412_N1645				EBLOT:	Containers: 3		
Remarks:										

Relinquished by: Sam Elliott Date 11/6/12 Time 1530
Recieved by: Date 11/7/12 Time 1115

Relinquished by: Date Time
Recieved by: Date Time

Relinquished by: Date Time
Recieved by: Date Time

Camp Stanley Storage Activity Chain Of Custody

64230

COC ID:	110612APPFA	Relinquish_Date:	11/6/2012	Cooler ID:	A	Sampler(s):	Sam Elliott -
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF		
Job Number:	748350.02000	Relinquish_Time:	3:30 PM	Carrier:	FedEx		
Creation Date:	11/6/2012	Collection Team:	SE	Airbill Carrier:	801561199790		
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT		

LOCID: GT12016B• LOGDATE: 11/3/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 8:00 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12016B_110312_N0800 EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: GT12016L• LOGDATE: 11/3/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 8:00 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12016L_110312_N0800 EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: GT12016M LOGDATE: 11/3/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 8:00 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12016M_110312_N0800 EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: GT12018B• LOGDATE: 11/3/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 9:20 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12018B_110312_N0920 EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: GT12018L• LOGDATE: 11/3/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 9:20 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12018L_110312_N0920 EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: GT12018M LOGDATE: 11/3/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 9:20 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12018M_110312_N0920 EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: GT12012B• LOGDATE: 11/4/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 10:30 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12012B_110412_N1030 EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: GT12012L• LOGDATE: 11/4/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 10:30 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12012L_110412_N1030 EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

Relinquished by: [signature] Date 11/6/12 Time 1530
Recieved by: [signature] Date 11/7/12 Time 0815

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date _____ Time _____

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date _____ Time _____

Camp Stanley Storage Activity Chain Of Custody

COC ID:	110612APPFA	Relinquish_Date:	11/6/2012	Cooler ID:	A	Sampler(s):	Sam Elliott
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF		
Job Number:	748350.02000	Relinquish_Time:	3:30 PM	Carrier:	FedEx		
Creation Date:	11/6/2012	Collection Team:	SE	Airbill Carrier:	801561199790		
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT		

LOCID: GT12012M LOGDATE: 11/4/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 10:30 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12012M_110412_N1030 EBLOT:
Containers: 1
Analysis Required: SW6010B LEAD
Remarks:

LOCID: GT12014B LOGDATE: 11/4/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 17:45 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12014B_110412_N1745 EBLOT:
Containers: 1
Analysis Required: SW6010B LEAD
Remarks:

LOCID: GT12014L LOGDATE: 11/4/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 17:45 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12014L_110412_N1745 EBLOT:
Containers: 1
Analysis Required: SW6010B LEAD
Remarks:

LOCID: GT12014M LOGDATE: 11/4/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 17:45 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12014M_110412_N1745 EBLOT:
Containers: 1
Analysis Required: SW6010B LEAD
Remarks:

LOCID: GT12020B LOGDATE: 11/5/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 16:45 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12020B_110512_N1645 EBLOT:
Containers: 1
Analysis Required: SW6010B LEAD
Remarks:

LOCID: GT12020L LOGDATE: 11/5/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 16:45 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12020L_110512_N1645 EBLOT:
Containers: 1
Analysis Required: SW6010B LEAD
Remarks:

LOCID: GT12020M LOGDATE: 11/5/2012 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 16:45 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT12020M_110512_N1645 EBLOT:
Containers: 1
Analysis Required: SW6010B LEAD
Remarks:

Relinquished by: Sam Elliott Date: 11/6/12 Time: 1530
Recieved by: Will Fish Date: 11/7/12 Time: 1115

Relinquished by: _____ Date: _____ Time: _____
Recieved by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____
Recieved by: _____ Date: _____ Time: _____

COOLER RECEIPT FORM

1) Project: 748350.02000 CSSA Date Received: 11/7/12

2) Coolers: Number of Coolers: 1

3) YES NO Were coolers and samples screened for radioactivity?

4) YES NO Were custody seals on outside of cooler? How many? 1 Date on seal? 11/6/12

5) Name on seal? See Label

6) YES NO NA Were custody seals unbroken and intact at the time of arrival?

7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex

8) Shipping slip numbers: 1) 8015 6119 9790 2) 3)

9) YES NO NA Was the shipping slip scanned into the database?

10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Ziploc in wet ice

12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?

13) YES NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: A39267 Correction factor: 0

15) Cooler temp(s): 1) 1.5°C 2) 3) 4) 5) 6) 7) 8)

Chain of custody:

16) YES NO Was a chain of custody received?

17) YES NO Were the custody papers signed in the appropriate places?

18) YES NO Was the project identifiable from custody papers?

19) YES NO Did the chain of custody include date and time of sampling?

20) YES NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) YES NO Were container labels in good condition?

22) YES NO Was the client ID on the label?

23) YES NO Was the date of sampling on the label?

24) YES NO Was the time of sampling on the label?

25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?

27) YES NO Did all containers arrive unbroken?

28) YES NO Was there any leakage from samples?

29) YES NO Were any of the lids cracked or broken?

30) YES NO Were correct containers used for the tests indicated?

31) YES NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea:

Smaller than a pea:

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO NA Unpreserved VOA Vials received?

38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

Lab notified if pH was not adequate:

Deficiencies:

Signature of personnel receiving samples: Yang Bo Second reviewer: Will Gate

Signature of project manager notified: Date and Time of notification:

Name of client notified: Date and Time of notification:

Information given to client:

by whom (Initials):

CUSTODY SEAL

APPL, Inc.

(559) 275-2175

Initials SE

Date 11/6/12

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/27/12	11/27/12	#6010B-121127A-AY72103
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/13/12	11/13/12	#6010B-121113A-AY71560

Metals SC-Blank-REG MDLs
Printed: 11/29/12 9:32:31 AM

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.0	10.5	105	80-120	11/13/12	11/13/12	#6010B-121113A-AY71560

Comments: _____

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.4	104	80-120	11/27/12	11/27/12	#6010B-121127A-AY72103

Comments: _____

METALS
Sample Data

APPL, INC.

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12016B
Sample Collection Date: 11/03/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69230
APPL ID: AY71478

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	2.7	0.50	mg/kg	1	11/27/12	11/27/12

Printed: 11/29/12 9:32:15 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 35
Sample ID: AY71478M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.45 g
Dilution:

Autosampler Location: 92
Date Collected: 11/27/12 6:34:44 PM
Data Type: Reprocessed on 11/28/12 2:45:12 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71478M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	490.0	3.868	ug/L	0.2908	0.158	mg/kg	0.0119	7.52%
Al 308.215	371.3	177.9	ug/L	3.48	7.260	mg/kg	0.1422	1.96%
As 188.979	115.0	21.34	ug/L	1.872	0.871	mg/kg	0.0764	8.77%
B	66.1	11.01	ug/L	0.451	0.449	mg/kg	0.0184	4.10%
Ba 233.527	65677.3	383.3	ug/L	5.47	15.64	mg/kg	0.223	1.43%
Be 313.107	-3007.7	-0.465	ug/L	0.0094	-0.019	mg/kg	0.0004	2.02%
Ca 315.887	14903050.0	1128000	ug/L	8881.0	46030	mg/kg	362.5	0.79%
Cd 214.440	464.5	-1.757	ug/L	0.0742	-0.072	mg/kg	0.0030	4.22%
Co 228.616	306.7	0.297	ug/L	0.2103	0.012	mg/kg	0.0086	70.84%
Cr 267.716	4763.4	29.60	ug/L	0.323	1.208	mg/kg	0.0132	1.09%
Cu 327.393	21285.8	208.9	ug/L	3.09	8.526	mg/kg	0.1261	1.48%
Fe 273.955	190664.2	6926	ug/L	93.5	282.7	mg/kg	3.82	1.35%
K 766.490	256459.3	107900	ug/L	152.6	4402	mg/kg	6.2	0.14%
Mg 285.213	655857.4	31720	ug/L	40.5	1295	mg/kg	1.7	0.13%
Mn 257.610	1249.6	16.28	ug/L	0.205	0.664	mg/kg	0.0084	1.26%
Mo 202.031	7.1	-4.704	ug/L	0.3040	-0.192	mg/kg	0.0124	6.46%
Na 589.592	917400.3	67620	ug/L	163.1	2760	mg/kg	6.7	0.24%
Ni 231.604	30684.8	461.5	ug/L	6.77	18.84	mg/kg	0.277	1.47%
P 213.617	4279281.5	584000	ug/L	2240.1	23830	mg/kg	91.4	0.38%
Pb 220.353	1029.7	66.27	ug/L	1.686	2.705	mg/kg	0.0688	2.54%
Sb 206.836	-2.4	-0.357	ug/L	0.3407	-0.015	mg/kg	0.0139	95.56%
Se 196.026	97.3	19.22	ug/L	1.746	0.784	mg/kg	0.0713	9.09%
Sn 189.927	391.8	49.14	ug/L	0.632	2.006	mg/kg	0.0258	1.29%
Sr 421.552	288565.7	268.6	ug/L	0.70	10.96	mg/kg	0.029	0.26%
Ti 337.279	624.2	10.07	ug/L	0.259	0.411	mg/kg	0.0106	2.57%
Tl 190.801	-14.3	-2.091	ug/L	1.1371	-0.085	mg/kg	0.0464	54.38%
V 292.402	404.9	-0.687	ug/L	0.2257	-0.028	mg/kg	0.0092	32.85%
Zn 206.200	183194.8	1941	ug/L	29.3	79.23	mg/kg	1.194	1.51%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12016L
Sample Collection Date: 11/03/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69230
APPL ID: AY71479

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/13/12	11/13/12

Printed: 11/29/12 12:50:35 PM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 110
Sample ID: AY71479M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.56 g
Dilution:

Autosampler Location: 116
Date Collected: 11/13/12 8:00:48 PM
Data Type: Reprocessed on 11/14/12 11:09:07 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71479M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	346.8	2.759	ug/L	0.9662	0.108	mg/kg	0.0377	35.02%
Al 308.215	16.6	10.12	ug/L	4.957	0.395	mg/kg	0.1936	49.00%
As 188.979	18.8	3.951	ug/L	1.2968	0.154	mg/kg	0.0507	32.82%
B	21.8	15.17	ug/L	0.504	0.593	mg/kg	0.0197	3.32%
Ba 233.527	406.4	0.996	ug/L	0.1387	0.039	mg/kg	0.0054	13.92%
Be 313.107	-1005.0	-0.168	ug/L	0.0046	-0.007	mg/kg	0.0002	2.76%
Ca 315.887	12906.9	1100	ug/L	16.4	42.98	mg/kg	0.640	1.49%
Cd 214.440	755.6	2.241	ug/L	0.0766	0.088	mg/kg	0.0030	3.42%
Co 228.616	141.4	2.002	ug/L	0.1227	0.078	mg/kg	0.0048	6.13%
Cr 267.716	367.3	2.765	ug/L	0.0499	0.108	mg/kg	0.0019	1.80%
Cu 327.393	182731.1	1742	ug/L	20.5	68.05	mg/kg	0.800	1.18%
Fe 273.955	75635.6	2952	ug/L	27.8	115.3	mg/kg	1.09	0.94%
K 766.490	146339.4	71450	ug/L	716.9	2791	mg/kg	28.0	1.00%
Mg 285.213	68810.2	3513	ug/L	33.1	137.2	mg/kg	1.29	0.94%
Mn 257.610	1490.8	26.66	ug/L	0.369	1.041	mg/kg	0.0144	1.38%
Mo 202.031	128.6	3.599	ug/L	0.3278	0.141	mg/kg	0.0128	9.11%
Na 589.592	201676.9	14600	ug/L	186.9	570.2	mg/kg	7.30	1.28%
Ni 231.604	80.0	1.305	ug/L	0.1144	0.051	mg/kg	0.0045	8.77%
P 213.617	492604.7	76660	ug/L	728.4	2995	mg/kg	28.5	0.95%
Pb 220.353	157.8	11.11	ug/L	0.827	0.434	mg/kg	0.0323	7.44%
Sb 206.836	5.3	0.961	ug/L	0.7212	0.038	mg/kg	0.0282	75.07%
Se 196.026	200.6	37.60	ug/L	0.570	1.469	mg/kg	0.0222	1.51%
Sn 189.927	-77.8	-11.13	ug/L	1.002	-0.435	mg/kg	0.0391	9.01%
Sr 421.552	911.8	1.046	ug/L	0.1005	0.041	mg/kg	0.0039	9.61%
Ti 337.279	89.5	1.805	ug/L	0.0655	0.071	mg/kg	0.0026	3.63%
Tl 190.801	-5.1	-0.821	ug/L	0.2199	-0.032	mg/kg	0.0086	26.77%
V 292.402	22.4	-0.599	ug/L	0.1312	-0.023	mg/kg	0.0051	21.91%
Zn 206.200	41220.4	485.3	ug/L	4.93	18.96	mg/kg	0.193	1.02%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12018B
Sample Collection Date: 11/03/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69230
APPL ID: AY71480

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/27/12	11/27/12

Printed: 11/29/12 9:32:15 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 36
Sample ID: AY71480M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.48 g
Dilution:

Autosampler Location: 93
Date Collected: 11/27/12 6:40:25 PM
Data Type: Reprocessed on 11/28/12 2:45:13 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71480M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	2067.4	16.32	ug/L	0.563	0.658	mg/kg	0.0227	3.45%
Al 308.215	150.2	-8.874	ug/L	6.9088	-0.358	mg/kg	0.2786	77.85%
As 188.979	205.1	38.07	ug/L	0.595	1.535	mg/kg	0.0240	1.56%
B	311.0	-20.04	ug/L	2.379	-0.808	mg/kg	0.0959	11.87%
Ba 233.527	257858.2	1521	ug/L	2.2	61.32	mg/kg	0.089	0.14%
Be 313.107	-5817.2	-0.898	ug/L	0.0216	-0.036	mg/kg	0.0009	2.40%
Ca 315.887	52257153.9	3955000	ug/L	12926.6	159500	mg/kg	521.2	0.33%
Cd 214.440	-32.4	-8.435	ug/L	0.1085	-0.340	mg/kg	0.0044	1.29%
Co 228.616	357.8	-7.935	ug/L	0.0762	-0.320	mg/kg	0.0031	0.96%
Cr 267.716	41409.2	271.9	ug/L	0.95	10.96	mg/kg	0.038	0.35%
Cu 327.393	527.0	5.172	ug/L	0.2231	0.209	mg/kg	0.0090	4.31%
Fe 273.955	39016.5	1327	ug/L	4.6	53.49	mg/kg	0.187	0.35%
K 766.490	13642.5	4247	ug/L	99.6	171.3	mg/kg	4.02	2.34%
Mg 285.213	1702585.8	82310	ug/L	911.7	3319	mg/kg	36.8	1.11%
Mn 257.610	2024.9	15.89	ug/L	0.211	0.641	mg/kg	0.0085	1.33%
Mo 202.031	-133.6	-22.78	ug/L	0.426	-0.918	mg/kg	0.0172	1.87%
Na 589.592	1765934.4	130100	ug/L	1687.0	5244	mg/kg	68.0	1.30%
Ni 231.604	369.3	4.452	ug/L	0.2178	0.180	mg/kg	0.0088	4.89%
P 213.617	11257126.5	1536000	ug/L	6687.0	61940	mg/kg	269.6	0.44%
Pb 220.353	-58.5	-3.764	ug/L	0.8442	-0.152	mg/kg	0.0340	22.43%
Sb 206.836	32.5	4.841	ug/L	0.7320	0.195	mg/kg	0.0295	15.12%
Se 196.026	34.0	6.708	ug/L	2.8763	0.270	mg/kg	0.1160	42.88%
Sn 189.927	93.0	11.66	ug/L	0.931	0.470	mg/kg	0.0375	7.98%
Sr 421.552	815263.8	752.9	ug/L	9.59	30.36	mg/kg	0.387	1.27%
Ti 337.279	348.7	-1.660	ug/L	0.5839	-0.067	mg/kg	0.0235	35.18%
Tl 190.801	-18.1	-2.652	ug/L	0.3307	-0.107	mg/kg	0.0133	12.47%
V 292.402	278.3	0.549	ug/L	0.0651	0.022	mg/kg	0.0026	11.86%
Zn 206.200	136810.5	1456	ug/L	5.8	58.70	mg/kg	0.235	0.40%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12018L
Sample Collection Date: 11/03/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69230
APPL ID: AY71481

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/13/12	11/13/12

Printed: 11/29/12 9:32:15 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 111
Sample ID: AY71481M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.55 g
Dilution:

Autosampler Location: 117
Date Collected: 11/13/12 8:05:42 PM
Data Type: Reprocessed on 11/14/12 11:09:08 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71481M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	238.7	1.899	ug/L	1.1374	0.074	mg/kg	0.0446	59.89%
Al 308.215	24.0	14.38	ug/L	2.170	0.564	mg/kg	0.0851	15.10%
As 188.979	13.1	2.754	ug/L	0.5950	0.108	mg/kg	0.0233	21.60%
B	8.4	10.06	ug/L	3.171	0.394	mg/kg	0.1243	31.52%
Ba 233.527	310.9	0.688	ug/L	0.1885	0.027	mg/kg	0.0074	27.39%
Be 313.107	-961.7	-0.161	ug/L	0.0185	-0.006	mg/kg	0.0007	11.49%
Ca 315.887	14593.7	1245	ug/L	13.5	48.82	mg/kg	0.528	1.08%
Cd 214.440	645.8	1.850	ug/L	0.0578	0.073	mg/kg	0.0023	3.12%
Co 228.616	91.1	1.269	ug/L	0.1600	0.050	mg/kg	0.0063	12.61%
Cr 267.716	386.3	2.935	ug/L	0.1231	0.115	mg/kg	0.0048	4.19%
Cu 327.393	45466.7	433.5	ug/L	3.45	17.00	mg/kg	0.135	0.80%
Fe 273.955	60709.4	2369	ug/L	27.8	92.90	mg/kg	1.092	1.18%
K 766.490	145728.3	71150	ug/L	780.8	2790	mg/kg	30.6	1.10%
Mg 285.213	76048.1	3881	ug/L	23.9	152.2	mg/kg	0.94	0.62%
Mn 257.610	1341.3	23.92	ug/L	0.210	0.938	mg/kg	0.0082	0.88%
Mo 202.031	108.9	3.035	ug/L	0.0801	0.119	mg/kg	0.0031	2.64%
Na 589.592	218228.6	15800	ug/L	111.7	619.5	mg/kg	4.38	0.71%
Ni 231.604	-47.3	-0.807	ug/L	0.2395	-0.032	mg/kg	0.0094	29.66%
P 213.617	508677.2	79170	ug/L	1022.0	3105	mg/kg	40.1	1.29%
Pb 220.353	-18.7	-1.319	ug/L	0.4043	-0.052	mg/kg	0.0159	30.64%
Sb 206.836	0.5	0.084	ug/L	1.3883	0.003	mg/kg	0.0544	>999.9%
Se 196.026	143.4	26.40	ug/L	1.971	1.035	mg/kg	0.0773	7.47%
Sn 189.927	-85.7	-12.26	ug/L	0.224	-0.481	mg/kg	0.0088	1.83%
Sr 421.552	1798.8	1.884	ug/L	0.0403	0.074	mg/kg	0.0016	2.14%
Ti 337.279	74.8	1.452	ug/L	0.3983	0.057	mg/kg	0.0156	27.44%
Tl 190.801	-3.2	-0.514	ug/L	0.3429	-0.020	mg/kg	0.0134	66.67%
V 292.402	11.6	-0.561	ug/L	0.0585	-0.022	mg/kg	0.0023	10.43%
Zn 206.200	31665.4	373.0	ug/L	6.33	14.63	mg/kg	0.248	1.70%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12012B
Sample Collection Date: 11/04/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69230
APPL ID: AY71482

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.82	0.50	mg/kg	1	11/27/12	11/27/12

Printed: 11/29/12 9:32:15 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 37
Sample ID: AY71482M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 1.86 g
Dilution:

Autosampler Location: 94
Date Collected: 11/27/12 6:46:07 PM
Data Type: Reprocessed on 11/28/12 2:45:14 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71482M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	1177.9	9.299	ug/L	0.9412	0.500	mg/kg	0.0506	10.12%
Al 308.215	142.8	16.28	ug/L	11.566	0.875	mg/kg	0.6218	71.06%
As 188.979	147.0	27.27	ug/L	1.474	1.466	mg/kg	0.0793	5.41%
B	281.3	1.299	ug/L	1.8102	0.070	mg/kg	0.0973	139.40%
Ba 233.527	179953.1	1062	ug/L	9.4	57.08	mg/kg	0.503	0.88%
Be 313.107	-4860.2	-0.751	ug/L	0.0043	-0.040	mg/kg	0.0002	0.58%
Ca 315.887	35272817.0	2669000	ug/L	20793.1	143500	mg/kg	1117.9	0.78%
Cd 214.440	23.2	-5.629	ug/L	0.0559	-0.303	mg/kg	0.0030	0.99%
Co 228.616	245.4	-5.242	ug/L	0.3874	-0.282	mg/kg	0.0208	7.39%
Cr 267.716	9842.4	60.19	ug/L	0.123	3.236	mg/kg	0.0066	0.20%
Cu 327.393	2290.2	22.48	ug/L	0.746	1.208	mg/kg	0.0401	3.32%
Fe 273.955	8972.7	262.6	ug/L	0.47	14.12	mg/kg	0.025	0.18%
K 766.490	11428.8	3804	ug/L	16.7	204.5	mg/kg	0.90	0.44%
Mg 285.213	1060285.9	51260	ug/L	283.2	2756	mg/kg	15.2	0.55%
Mn 257.610	599.8	-2.672	ug/L	0.2383	-0.144	mg/kg	0.0128	8.92%
Mo 202.031	-70.7	-15.02	ug/L	0.144	-0.808	mg/kg	0.0077	0.96%
Na 589.592	1167084.9	85950	ug/L	454.5	4621	mg/kg	24.4	0.53%
Ni 231.604	6207.3	92.72	ug/L	0.023	4.985	mg/kg	0.0012	0.02%
P 213.617	8240195.3	1124000	ug/L	13519.6	60450	mg/kg	726.9	1.20%
Pb 220.353	237.1	15.26	ug/L	0.589	0.820	mg/kg	0.0317	3.86%
Sb 206.836	-5.5	-0.816	ug/L	0.1589	-0.044	mg/kg	0.0085	19.48%
Se 196.026	9.0	1.769	ug/L	0.6137	0.095	mg/kg	0.0330	34.70%
Sn 189.927	55.1	6.905	ug/L	2.1026	0.371	mg/kg	0.1130	30.45%
Sr 421.552	554910.1	512.6	ug/L	3.05	27.56	mg/kg	0.164	0.60%
Ti 337.279	374.8	1.894	ug/L	0.5736	0.102	mg/kg	0.0308	30.29%
Tl 190.801	-21.6	-3.168	ug/L	1.7507	-0.170	mg/kg	0.0941	55.26%
V 292.402	-9.5	-1.429	ug/L	0.0475	-0.077	mg/kg	0.0026	3.32%
Zn 206.200	76185.5	810.4	ug/L	8.50	43.57	mg/kg	0.457	1.05%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12012L
Sample Collection Date: 11/04/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69230
APPL ID: AY71483

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/13/12	11/13/12

Printed: 11/29/12 9:32:15 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 112
Sample ID: AY71483M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.52 g
Dilution:

Autosampler Location: 118
Date Collected: 11/13/12 8:10:36 PM
Data Type: Reprocessed on 11/14/12 11:09:09 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71483M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	289.2	2.301	ug/L	0.1145	0.091	mg/kg	0.0045	4.97%
Al 308.215	5.9	3.889	ug/L	5.0312	0.154	mg/kg	0.1996	129.35%
As 188.979	7.3	1.527	ug/L	0.5909	0.061	mg/kg	0.0234	38.70%
B	31.9	16.48	ug/L	0.352	0.654	mg/kg	0.0140	2.14%
Ba 233.527	378.4	0.982	ug/L	0.1598	0.039	mg/kg	0.0063	16.27%
Be 313.107	-1129.2	-0.189	ug/L	0.0052	-0.007	mg/kg	0.0002	2.73%
Ca 315.887	12997.6	1109	ug/L	12.5	43.99	mg/kg	0.495	1.12%
Cd 214.440	255.8	0.697	ug/L	0.0296	0.028	mg/kg	0.0012	4.25%
Co 228.616	147.9	2.113	ug/L	0.0721	0.084	mg/kg	0.0029	3.41%
Cr 267.716	410.9	3.089	ug/L	0.1291	0.123	mg/kg	0.0051	4.18%
Cu 327.393	172224.2	1642	ug/L	13.4	65.16	mg/kg	0.533	0.82%
Fe 273.955	67666.2	2641	ug/L	17.6	104.8	mg/kg	0.70	0.67%
K 766.490	133371.2	65120	ug/L	695.2	2584	mg/kg	27.6	1.07%
Mg 285.213	74109.1	3783	ug/L	44.8	150.1	mg/kg	1.78	1.18%
Mn 257.610	1436.8	25.66	ug/L	0.138	1.018	mg/kg	0.0055	0.54%
Mo 202.031	88.1	2.540	ug/L	0.0927	0.101	mg/kg	0.0037	3.65%
Na 589.592	196387.8	14220	ug/L	169.3	564.1	mg/kg	6.72	1.19%
Ni 231.604	-54.8	-0.911	ug/L	0.1972	-0.036	mg/kg	0.0078	21.65%
P 213.617	519081.0	80780	ug/L	544.7	3206	mg/kg	21.6	0.67%
Pb 220.353	-6.4	-0.454	ug/L	0.5003	-0.018	mg/kg	0.0199	110.23%
Sb 206.836	-4.3	-0.782	ug/L	0.3618	-0.031	mg/kg	0.0144	46.26%
Se 196.026	226.5	42.54	ug/L	3.821	1.688	mg/kg	0.1516	8.98%
Sn 189.927	-75.8	-10.84	ug/L	0.210	-0.430	mg/kg	0.0083	1.94%
Sr 421.552	2327.2	2.372	ug/L	0.0975	0.094	mg/kg	0.0039	4.11%
Ti 337.279	31.6	0.429	ug/L	0.2529	0.017	mg/kg	0.0100	58.91%
Tl 190.801	-4.1	-0.652	ug/L	0.6167	-0.026	mg/kg	0.0245	94.59%
V 292.402	42.4	-0.441	ug/L	0.1012	-0.017	mg/kg	0.0040	22.96%
Zn 206.200	34281.8	403.7	ug/L	2.50	16.02	mg/kg	0.099	0.62%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12014B
Sample Collection Date: 11/04/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69230
APPL ID: AY71484

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/27/12	11/27/12

Printed: 11/29/12 9:32:15 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 38
Sample ID: AY71484M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 1.07 g
Dilution:

Autosampler Location: 95
Date Collected: 11/27/12 6:51:50 PM
Data Type: Reprocessed on 11/28/12 2:45:15 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71484M01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	877.3	6.926	ug/L	0.4301	0.647	mg/kg	0.0402	6.21%
Al 308.215	243.3	90.17	ug/L	10.738	8.427	mg/kg	1.0035	11.91%
As 188.979	103.2	19.14	ug/L	1.094	1.789	mg/kg	0.1023	5.72%
B	149.6	-8.900	ug/L	2.1212	-0.832	mg/kg	0.1982	23.83%
Ba 233.527	96636.8	569.6	ug/L	3.84	53.23	mg/kg	0.359	0.67%
Be 313.107	-4139.0	-0.639	ug/L	0.0126	-0.060	mg/kg	0.0012	1.97%
Ca 315.887	24310080.4	1840000	ug/L	7016.7	171900	mg/kg	655.8	0.38%
Cd 214.440	87.6	-3.734	ug/L	0.0792	-0.349	mg/kg	0.0074	2.12%
Co 228.616	170.0	-3.628	ug/L	0.0729	-0.339	mg/kg	0.0068	2.01%
Cr 267.716	6338.8	38.43	ug/L	0.163	3.592	mg/kg	0.0152	0.42%
Cu 327.393	172.9	1.697	ug/L	0.4056	0.159	mg/kg	0.0379	23.90%
Fe 273.955	11827.4	386.9	ug/L	1.88	36.16	mg/kg	0.176	0.49%
K 766.490	6428.0	2009	ug/L	38.3	187.8	mg/kg	3.58	1.90%
Mg 285.213	732615.8	35420	ug/L	546.7	3310	mg/kg	51.1	1.54%
Mn 257.610	2274.5	31.00	ug/L	0.320	2.898	mg/kg	0.0299	1.03%
Mo 202.031	-31.5	-9.941	ug/L	0.1847	-0.929	mg/kg	0.0173	1.86%
Na 589.592	772982.0	56920	ug/L	994.9	5319	mg/kg	93.0	1.75%
Ni 231.604	10638.5	159.7	ug/L	0.55	14.92	mg/kg	0.052	0.35%
P 213.617	5941564.4	810800	ug/L	12680.3	75770	mg/kg	1185.1	1.56%
Pb 220.353	-0.3	-0.020	ug/L	0.9012	-0.002	mg/kg	0.0842	>999.9%
Sb 206.836	-9.4	-1.404	ug/L	0.9285	-0.131	mg/kg	0.0868	66.15%
Se 196.026	-18.2	-3.590	ug/L	0.5013	-0.336	mg/kg	0.0468	13.96%
Sn 189.927	11.6	1.456	ug/L	1.0836	0.136	mg/kg	0.1013	74.42%
Sr 421.552	517965.0	482.9	ug/L	8.61	45.13	mg/kg	0.805	1.78%
Ti 337.279	421.8	4.773	ug/L	0.2573	0.446	mg/kg	0.0240	5.39%
Tl 190.801	-25.7	-3.767	ug/L	0.6143	-0.352	mg/kg	0.0574	16.31%
V 292.402	104.6	-0.597	ug/L	0.1712	-0.056	mg/kg	0.0160	28.69%
Zn 206.200	68138.4	723.8	ug/L	5.02	67.65	mg/kg	0.470	0.69%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12014L
Sample Collection Date: 11/04/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69230
APPL ID: AY71485

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/13/12	11/13/12

Printed: 11/29/12 9:32:15 AM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 113
Sample ID: AY71485M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.56 g
Dilution:

Autosampler Location: 119
Date Collected: 11/13/12 8:15:32 PM
Data Type: Reprocessed on 11/14/12 11:09:10 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71485M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	378.2	3.008	ug/L	0.4852	0.117	mg/kg	0.0190	16.13%
Al 308.215	-1.8	-0.677	ug/L	7.9627	-0.026	mg/kg	0.3110	>999.9%
As 188.979	14.8	3.104	ug/L	0.8956	0.121	mg/kg	0.0350	28.85%
B	7.5	11.03	ug/L	1.203	0.431	mg/kg	0.0470	10.91%
Ba 233.527	408.5	1.137	ug/L	0.0792	0.044	mg/kg	0.0031	6.97%
Be 313.107	-1148.4	-0.192	ug/L	0.0234	-0.008	mg/kg	0.0009	12.19%
Ca 315.887	10934.7	932.4	ug/L	6.28	36.42	mg/kg	0.245	0.67%
Cd 214.440	814.9	2.358	ug/L	0.0766	0.092	mg/kg	0.0030	3.25%
Co 228.616	87.5	1.210	ug/L	0.1204	0.047	mg/kg	0.0047	9.95%
Cr 267.716	302.0	2.291	ug/L	0.1480	0.090	mg/kg	0.0058	6.46%
Cu 327.393	43459.1	414.3	ug/L	2.39	16.18	mg/kg	0.093	0.58%
Fe 273.955	69983.6	2732	ug/L	25.8	106.7	mg/kg	1.01	0.95%
K 766.490	114477.7	55890	ug/L	333.9	2183	mg/kg	13.0	0.60%
Mg 285.213	58511.7	2987	ug/L	10.4	116.7	mg/kg	0.40	0.35%
Mn 257.610	1989.5	35.60	ug/L	0.352	1.391	mg/kg	0.0138	0.99%
Mo 202.031	50.2	1.586	ug/L	0.2356	0.062	mg/kg	0.0092	14.86%
Na 589.592	212562.8	15390	ug/L	31.4	601.3	mg/kg	1.23	0.20%
Ni 231.604	-11.3	-0.198	ug/L	0.2925	-0.008	mg/kg	0.0114	147.96%
P 213.617	411332.5	64020	ug/L	234.8	2501	mg/kg	9.2	0.37%
Pb 220.353	3.7	0.259	ug/L	0.0565	0.010	mg/kg	0.0022	21.82%
Sb 206.836	0.2	0.044	ug/L	0.6132	0.002	mg/kg	0.0240	>999.9%
Se 196.026	98.5	18.46	ug/L	1.583	0.721	mg/kg	0.0618	8.58%
Sn 189.927	-71.6	-10.24	ug/L	0.268	-0.400	mg/kg	0.0105	2.61%
Sr 421.552	737.8	0.834	ug/L	0.0340	0.033	mg/kg	0.0013	4.08%
Ti 337.279	35.0	0.562	ug/L	0.4930	0.022	mg/kg	0.0193	87.72%
Tl 190.801	-2.0	-0.325	ug/L	0.5866	-0.013	mg/kg	0.0229	180.37%
V 292.402	26.1	-0.600	ug/L	0.1315	-0.023	mg/kg	0.0051	21.91%
Zn 206.200	33203.0	390.9	ug/L	3.23	15.27	mg/kg	0.126	0.83%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12020B
Sample Collection Date: 11/05/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69230
APPL ID: AY71486

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/27/12	11/27/12

Printed: 11/29/12 9:32:15 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 39
Sample ID: AY71486M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 1.62 g
Dilution:

Autosampler Location: 96
Date Collected: 11/27/12 6:57:29 PM
Data Type: Reprocessed on 11/28/12 2:45:16 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71486M01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	657.5	5.191	ug/L	0.5495	0.320	mg/kg	0.0339	10.58%
Al 308.215	170.3	55.87	ug/L	6.318	3.449	mg/kg	0.3900	11.31%
As 188.979	84.7	15.72	ug/L	0.978	0.971	mg/kg	0.0604	6.22%
B	98.8	-13.25	ug/L	2.602	-0.818	mg/kg	0.1606	19.64%
Ba 233.527	68502.4	402.9	ug/L	4.55	24.87	mg/kg	0.281	1.13%
Be 313.107	-3802.8	-0.587	ug/L	0.0051	-0.036	mg/kg	0.0003	0.86%
Ca 315.887	21492472.1	1626000	ug/L	6467.5	100400	mg/kg	399.2	0.40%
Cd 214.440	116.6	-3.274	ug/L	0.1076	-0.202	mg/kg	0.0066	3.29%
Co 228.616	148.4	-3.278	ug/L	0.2207	-0.202	mg/kg	0.0136	6.73%
Cr 267.716	4940.3	29.47	ug/L	0.109	1.819	mg/kg	0.0068	0.37%
Cu 327.393	1289.9	12.66	ug/L	0.913	0.781	mg/kg	0.0563	7.21%
Fe 273.955	30066.8	1057	ug/L	12.1	65.27	mg/kg	0.748	1.15%
K 766.490	22425.2	8851	ug/L	52.8	546.4	mg/kg	3.26	0.60%
Mg 285.213	655022.0	31670	ug/L	129.7	1955	mg/kg	8.0	0.41%
Mn 257.610	964.0	8.943	ug/L	0.1175	0.552	mg/kg	0.0073	1.31%
Mo 202.031	-17.6	-8.455	ug/L	0.4071	-0.522	mg/kg	0.0251	4.81%
Na 589.592	979413.8	72190	ug/L	185.3	4456	mg/kg	11.4	0.26%
Ni 231.604	13667.4	205.3	ug/L	0.46	12.67	mg/kg	0.028	0.22%
P 213.617	5430045.9	741000	ug/L	4963.8	45740	mg/kg	306.4	0.67%
Pb 220.353	-15.4	-0.991	ug/L	0.7303	-0.061	mg/kg	0.0451	73.69%
Sb 206.836	-15.1	-2.246	ug/L	0.7746	-0.139	mg/kg	0:0478	34.49%
Se 196.026	33.1	6.541	ug/L	0.7366	0.404	mg/kg	0.0455	11.26%
Sn 189.927	-28.0	-3.516	ug/L	1.6283	-0.217	mg/kg	0.1005	46.31%
Sr 421.552	704359.5	662.7	ug/L	1.70	40.91	mg/kg	0.105	0.26%
Ti 337.279	349.9	3.689	ug/L	0.3538	0.228	mg/kg	0.0218	9.59%
Tl 190.801	-20.3	-2.978	ug/L	0.7333	-0.184	mg/kg	0.0453	24.62%
V 292.402	23.7	-1.080	ug/L	0.1133	-0.067	mg/kg	0.0070	10.50%
Zn 206.200	76490.6	812.1	ug/L	9.66	50.13	mg/kg	0.597	1.19%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12020L
Sample Collection Date: 11/05/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69230
APPL ID: AY71487

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/13/12	11/13/12

Printed: 11/29/12 9:32:15 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 114
Sample ID: AY71487M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.57 g
Dilution:

Autosampler Location: 120
Date Collected: 11/13/12 8:20:28 PM
Data Type: Reprocessed on 11/14/12 11:09:11 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71487M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	206.9	1.646	ug/L	0.7142	0.064	mg/kg	0.0278	43.40%
Al 308.215	7.6	4.736	ug/L	2.7427	0.184	mg/kg	0.1067	57.91%
As 188.979	10.7	2.235	ug/L	1.0238	0.087	mg/kg	0.0398	45.82%
B	3.3	7.468	ug/L	1.6628	0.291	mg/kg	0.0647	22.27%
Ba 233.527	425.4	1.612	ug/L	0.1132	0.063	mg/kg	0.0044	7.02%
Be 313.107	-1059.4	-0.177	ug/L	0.0146	-0.007	mg/kg	0.0006	8.24%
Ca 315.887	12033.2	1026	ug/L	7.2	39.91	mg/kg	0.280	0.70%
Cd 214.440	401.1	1.139	ug/L	0.0428	0.044	mg/kg	0.0017	3.76%
Co 228.616	76.8	1.060	ug/L	0.1503	0.041	mg/kg	0.0058	14.17%
Cr 267.716	398.6	3.010	ug/L	0.1396	0.117	mg/kg	0.0054	4.64%
Cu 327.393	85251.7	812.8	ug/L	1.90	31.62	mg/kg	0.074	0.23%
Fe 273.955	49957.6	1949	ug/L	6.4	75.84	mg/kg	0.248	0.33%
K 766.490	143938.1	70280	ug/L	109.6	2735	mg/kg	4.3	0.16%
Mg 285.213	71908.6	3670	ug/L	12.2	142.8	mg/kg	0.47	0.33%
Mn 257.610	1584.8	28.26	ug/L	0.072	1.100	mg/kg	0.0028	0.26%
Mo 202.031	58.0	1.730	ug/L	0.2311	0.067	mg/kg	0.0090	13.36%
Na 589.592	187233.6	13550	ug/L	60.5	527.3	mg/kg	2.36	0.45%
Ni 231.604	-71.2	-1.203	ug/L	0.3222	-0.047	mg/kg	0.0125	26.80%
P 213.617	524138.8	81570	ug/L	471.1	3174	mg/kg	18.3	0.58%
Pb 220.353	-8.4	-0.595	ug/L	0.6256	-0.023	mg/kg	0.0243	105.22%
Sb 206.836	-1.5	-0.276	ug/L	0.9511	-0.011	mg/kg	0.0370	344.00%
Se 196.026	138.2	25.23	ug/L	1.933	0.982	mg/kg	0.0752	7.66%
Sn 189.927	-90.1	-12.89	ug/L	0.126	-0.501	mg/kg	0.0049	0.98%
Sr 421.552	644.0	0.791	ug/L	0.0513	0.031	mg/kg	0.0020	6.49%
Ti 337.279	30.8	0.392	ug/L	0.0857	0.015	mg/kg	0.0033	21.86%
Tl 190.801	-1.2	-0.193	ug/L	0.2181	-0.007	mg/kg	0.0085	113.27%
V 292.402	27.8	-0.382	ug/L	0.0956	-0.015	mg/kg	0.0037	25.00%
Zn 206.200	41583.8	489.6	ug/L	2.05	19.05	mg/kg	0.080	0.42%

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69230 SDG: 69230
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/13/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:26	%R(1)	True CCV1	Found 11:59	%R(1)	True CCV1	Found 19:43	%R(1)	
Lead (Pb)	1000	1041	104	1000	1031	103	1000	1054	105	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No: 69230 SDG: 69230

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 11/13/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:26	%R(1)	True CCV2	Found 20:37	%R(1)	True	Found	%R(1)	
Lead (Pb)	1000	1041	104	750	718.1	95.7				P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69230 SDG: 69230

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 11/13/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	11:30		12:03		19:47		20:41		19:51		
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69230 SDG: 69230

ICP ID Number: Phoebe ICS Source: Environmental Express

Analysis Date: 11/13/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 11:39	Sol AB 11:43	%R(1)
Aluminum (Al)	200000	200000	189600	185600	92.8
Calcium (Ca)	200000	200000	191600	187300	93.7
Iron (Fe)	200000	200000	178500	174900	87.5
Magnesium (Mg)	200000	200000	186600	183100	91.5
Lead (Pb)		1000	ND	954.1	95.4

(1) Control Limits: Metals 80-120

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69230 SDG: 69230
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/27/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 16:03	%R(1)	True CCV1	Found 16:22	%R(1)	True CCV1	Found 18:14	%R(1)	
Lead (Pb)	1000	1067	107	1000	1027	103	1000	1040	104	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69230 SDG: 69230
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/27/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 16:03	%R(1)	True CCV2	Found 19:16	%R(1)	True	Found	%R(1)	
Lead (Pb)	1000	1067	107	750	811.4	108				P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69230 SDG: 69230

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 11/27/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	16:06		16:28		18:17		19:23		18:21		
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69230 SDG: 69230

ICP ID Number: Phoebe ICS Source: Environmental Express

Analysis Date: 11/27/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 16:14	Sol AB 16:18	%R(1)
Aluminum (Al)	200000	200000	194000	191500	95.8
Calcium (Ca)	200000	200000	198000	198600	99.3
Iron (Fe)	200000	200000	181000	182400	91.2
Magnesium (Mg)	200000	200000	191900	202000	101
Lead (Pb)		1000	ND	956.7	95.7

(1) Control Limits: Metals 80-120

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 121113A6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1 Autosampler Location: 1
Sample ID: CalBlk 121113EA I:PB O:EA Date Collected: 11/13/12 11:11:40 AM
Analyst: Data Type: Reprocessed on 11/14/12 11:07:13 AM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CalBlk 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-533.0	108.61	20.38%	[0.00]	ug/L
Al 308.215	96.2	5.76	5.99%	[0.00]	ug/L
As 188.979	-7.2	5.49	76.00%	[0.00]	ug/L
B	23.5	6.74	28.71%	[0.00]	ug/L
Ba 233.527	110.0	10.69	9.72%	[0.00]	ug/L
Be 313.107	1315.7	41.65	3.17%	[0.00]	ug/L
Ca 315.887	-391.7	15.24	3.89%	[0.00]	ug/L
Cd 214.440	558.8	5.51	0.99%	[0.00]	ug/L
Co 228.616	52.8	21.57	40.84%	[0.00]	ug/L
Cr 267.716	519.1	15.62	3.01%	[0.00]	ug/L
Cu 327.393	-24.1	17.62	73.25%	[0.00]	ug/L
Fe 273.955	39.0	20.40	52.25%	[0.00]	ug/L
K 766.490	40.0	92.74	231.71%	[0.00]	ug/L
Mg 285.213	-32.2	9.74	30.26%	[0.00]	ug/L
Mn 257.610	-18.0	9.56	53.05%	[0.00]	ug/L
Mo 202.031	165.4	8.96	5.41%	[0.00]	ug/L
Na 589.592	-436.2	12.17	2.79%	[0.00]	ug/L
Ni 231.604	-262.3	14.06	5.36%	[0.00]	ug/L
P 213.617	20.0	10.32	51.60%	[0.00]	ug/L
Pb 220.353	-34.0	5.85	17.20%	[0.00]	ug/L
Sb 206.836	2.6	2.83	107.11%	[0.00]	ug/L
Se 196.026	-6.6	8.25	124.66%	[0.00]	ug/L
Sn 189.927	7.3	4.13	56.47%	[0.00]	ug/L
Sr 421.552	547.9	110.05	20.09%	[0.00]	ug/L
Ti 337.279	-331.4	19.37	5.84%	[0.00]	ug/L
Tl 190.801	-5.1	4.18	81.58%	[0.00]	ug/L
V 292.402	-889.9	14.14	1.59%	[0.00]	ug/L
Zn 206.200	-102.4	24.73	24.16%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/13/12 11:16:00 AM
Data Type: Reprocessed on 11/14/12 11:07:14 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	175.9	35.76	20.33%	[1.00]	ug/L
Al 308.215	179.4	8.77	4.89%	[100.00]	ug/L
As 188.979	27.4	4.54	16.61%	[3.50]	ug/L
B	216.2	4.59	2.12%	[50.00]	ug/L
Ba 233.527	851.2	8.85	1.04%	[5.00]	ug/L
Be 313.107	12470.5	154.16	1.24%	[2.00]	ug/L
Ca 315.887	1193.5	26.23	2.20%	[100.00]	ug/L
Cd 214.440	1783.4	7.21	0.40%	[5.00]	ug/L
Co 228.616	378.7	22.26	5.88%	[5.00]	ug/L
Cr 267.716	735.8	15.73	2.14%	[5.00]	ug/L
Cu 327.393	483.0	47.92	9.92%	[5.00]	ug/L
Fe 273.955	1325.0	7.74	0.58%	[50.00]	ug/L
K 766.490	1879.5	95.58	5.09%	[1000.00]	ug/L
Mg 285.213	1021.8	2.55	0.25%	[50]	ug/L
Mn 257.610	286.7	7.53	2.63%	[5.00]	ug/L
Mo 202.031	204.4	6.88	3.37%	[5.00]	ug/L
Na 589.592	14211.3	246.30	1.73%	[1000.00]	ug/L
Ni 231.604	348.7	12.15	3.48%	[5.00]	ug/L
P 213.617	163.5	5.93	3.63%	[25.00]	ug/L
Pb 220.353	46.6	8.21	17.62%	[3.00]	ug/L
Sb 206.836	27.2	2.86	10.51%	[5.00]	ug/L
Se 196.026	25.1	8.38	33.39%	[5.00]	ug/L
Sn 189.927	26.7	7.92	29.64%	[5.00]	ug/L
Sr 421.552	5553.5	241.53	4.35%	[5.00]	ug/L
Ti 337.279	204.6	13.12	6.41%	[5.00]	ug/L
Tl 190.801	34.1	1.35	3.96%	[5.00]	ug/L
V 292.402	1207.9	17.47	1.45%	[5.00]	ug/L
Zn 206.200	1940.1	17.64	0.91%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/13/12 11:20:24 AM
Data Type: Reprocessed on 11/14/12 11:07:15 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	56952.4	457.49	0.80%	[500.0]	ug/L
Al 308.215	36355.4	160.07	0.44%	[20000.00]	ug/L
As 188.979	5146.9	60.41	1.17%	[1000.00]	ug/L
B	4433.0	19.25	0.43%	[1000.00]	ug/L
Ba 233.527	176039.3	385.24	0.22%	[1000.00]	ug/L
Be 313.107	6511126.3	61896.38	0.95%	[1000.00]	ug/L
Ca 315.887	629607.1	5152.90	0.82%	[50000]	ug/L
Cd 214.440	356054.2	741.11	0.21%	[1000.00]	ug/L
Co 228.616	73076.3	142.12	0.19%	[1000.00]	ug/L
Cr 267.716	146049.9	228.60	0.16%	[1000.00]	ug/L
Cu 327.393	112936.0	1245.93	1.10%	[1000.00]	ug/L
Fe 273.955	570291.2	1027.76	0.18%	[20000]	ug/L
K 766.490	42938.9	65.36	0.15%	[20000]	ug/L
Mg 285.213	1063751.6	7093.76	0.67%	[50000]	ug/L
Mn 257.610	59473.6	225.45	0.38%	[1000.00]	ug/L
Mo 202.031	37082.2	386.96	1.04%	[1000.00]	ug/L
Na 589.592	370497.3	2373.08	0.64%	[25000]	ug/L
Ni 231.604	68130.2	756.23	1.11%	[1000.00]	ug/L
P 213.617	35750.2	464.32	1.30%	[5000]	ug/L
Pb 220.353	15485.7	158.76	1.03%	[1000.00]	ug/L
Sb 206.836	5147.3	55.20	1.07%	[1000.00]	ug/L
Se 196.026	5697.5	69.59	1.22%	[1000.00]	ug/L
Sn 189.927	6258.8	57.61	0.92%	[1000.00]	ug/L
Sr 421.552	1124808.4	8005.08	0.71%	[1000.00]	ug/L
Ti 337.279	36106.3	116.31	0.32%	[1000.00]	ug/L
Tl 190.801	6748.4	75.85	1.12%	[1000.00]	ug/L
V 292.402	254006.6	549.65	0.22%	[1000.00]	ug/L
Zn 206.200	94943.0	322.73	0.34%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 11/13/12 11:23:09 AM
Data Type: Reprocessed on 11/14/12 11:07:16 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	128675.0	1019.88	0.79%	[1000.00]	ug/L
Al 308.215	67234.2	407.72	0.61%	[40000.00]	ug/L
As 188.979	9351.8	84.76	0.91%	[2000.00]	ug/L
B	8403.8	117.08	1.39%	[2000.00]	ug/L
Ba 233.527	312551.2	2411.10	0.77%	[2000.00]	ug/L
Be 313.107	11690775.9	39369.47	0.34%	[2000.00]	ug/L
Ca 315.887	1144319.9	13362.75	1.17%	[100000.0]	ug/L
Cd 214.440	621473.8	4129.84	0.66%	[2000.00]	ug/L
Co 228.616	129131.6	962.59	0.75%	[2000.00]	ug/L
Cr 267.716	257713.6	1768.45	0.69%	[2000.00]	ug/L
Cu 327.393	205764.0	1728.49	0.84%	[2000.00]	ug/L
Fe 273.955	994817.0	6994.82	0.70%	[40000]	ug/L
K 766.490	80943.5	704.09	0.87%	[40000]	ug/L
Mg 285.213	1917762.2	19838.56	1.03%	[100000]	ug/L
Mn 257.610	109978.4	732.89	0.67%	[2000.00]	ug/L
Mo 202.031	80654.6	590.44	0.73%	[2000.00]	ug/L
Na 589.592	676512.4	7136.30	1.05%	[50000]	ug/L
Ni 231.604	118165.7	911.54	0.77%	[2000.00]	ug/L
P 213.617	62443.8	437.56	0.70%	[10000]	ug/L
Pb 220.353	27773.7	158.03	0.57%	[2000.00]	ug/L
Sb 206.836	11150.6	84.55	0.76%	[2000.00]	ug/L
Se 196.026	10267.1	14.99	0.15%	[2000.00]	ug/L
Sn 189.927	14350.3	93.20	0.65%	[2000.00]	ug/L
Sr 421.552	2072748.6	23790.94	1.15%	[2000.00]	ug/L
Ti 337.279	85246.6	585.14	0.69%	[2000.00]	ug/L
Tl 190.801	12205.0	73.28	0.60%	[2000.00]	ug/L
V 292.402	450552.2	4122.35	0.91%	[2000.00]	ug/L
Zn 206.200	165204.1	740.10	0.45%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	125.7	0.00000	0.998898	
Al 308.215	3	Lin Thru 0	0.0	1.708	0.00000	0.999486	
As 188.979	3	Lin Thru 0	0.0	4.770	0.00000	0.999221	
B	3	Lin Thru 0	0.0	4.248	0.00000	0.999763	
Ba 233.527	3	Lin Thru 0	0.0	160.2	0.00000	0.998785	
Be 313.107	3	Lin Thru 0	0.0	5979	0.00000	0.999009	
Ca 315.887	3	Lin Thru 0	0.0	11.67	0.00000	0.999226	
Cd 214.440	3	Lin Thru 0	0.0	319.8	0.00000	0.998397	
Co 228.616	3	Lin Thru 0	0.0	66.27	0.00000	0.998683	
Cr 267.716	3	Lin Thru 0	0.0	132.3	0.00000	0.998652	
Cu 327.393	3	Lin Thru 0	0.0	104.9	0.00000	0.999266	
Fe 273.955	3	Lin Thru 0	0.0	25.60	0.00000	0.998383	
K 766.490	3	Lin Thru 0	0.0	2.048	0.00000	0.999708	
Mg 285.213	3	Lin Thru 0	0.0	19.60	0.00000	0.999085	
Mn 257.610	3	Lin Thru 0	0.0	55.89	0.00000	0.999485	
Mo 202.031	3	Lin Thru 0	0.0	39.68	0.00000	0.999465	
Na 589.592	3	Lin Thru 0	0.0	13.79	0.00000	0.999301	
Ni 231.604	3	Lin Thru 0	0.0	60.89	0.00000	0.998239	
P 213.617	3	Lin Thru 0	0.0	6.426	0.00000	0.998414	
Pb 220.353	3	Lin Thru 0	0.0	14.21	0.00000	0.998988	
Sb 206.836	3	Lin Thru 0	0.0	5.490	0.00000	0.999514	
Se 196.026	3	Lin Thru 0	0.0	5.246	0.00000	0.999077	
Sn 189.927	3	Lin Thru 0	0.0	6.992	0.00000	0.998628	
Sr 421.552	3	Lin Thru 0	0.0	1054	0.00000	0.999437	
Ti 337.279	3	Lin Thru 0	0.0	41.32	0.00000	0.998016	
Tl 190.801	3	Lin Thru 0	0.0	6.232	0.00000	0.999142	

V 292.402	3	Lin Thru 0	0.0	231.0	0.00000	0.998765
Zn 206.200	3	Lin Thru 0	0.0	85.07	0.00000	0.998320

Sequence No.: 5
Sample ID: ICV 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 11/13/12 11:26:24 AM
Data Type: Reprocessed on 11/14/12 11:07:17 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65262.0	519.1	ug/L	14.40	519.1	ug/L	14.40	2.77%
QC value within limits for Ag 338.289 Recovery = 103.82%								
Al 308.215	40867.2	23930	ug/L	588.5	23930	ug/L	588.5	2.46%
QC value within limits for Al 308.215 Recovery = 95.74%								
As 188.979	4614.1	967.3	ug/L	4.89	967.3	ug/L	4.89	0.51%
QC value within limits for As 188.979 Recovery = 96.73%								
B	4103.4	1044	ug/L	22.7	1044	ug/L	22.7	2.17%
QC value within limits for B Recovery = 104.40%								
Ba 233.527	161857.4	998.5	ug/L	23.11	998.5	ug/L	23.11	2.31%
QC value within limits for Ba 233.527 Recovery = 99.85%								
Be 313.107	6106345.0	1021	ug/L	20.4	1021	ug/L	20.4	1.99%
QC value within limits for Be 313.107 Recovery = 102.14%								
Ca 315.887	291522.6	24960	ug/L	228.9	24960	ug/L	228.9	0.92%
QC value within limits for Ca 315.887 Recovery = 99.86%								
Cd 214.440	330720.1	1033	ug/L	21.2	1033	ug/L	21.2	2.06%
QC value within limits for Cd 214.440 Recovery = 103.33%								
Co 228.616	68566.1	1034	ug/L	23.6	1034	ug/L	23.6	2.28%
QC value within limits for Co 228.616 Recovery = 103.38%								
Cr 267.716	136000.4	1029	ug/L	21.0	1029	ug/L	21.0	2.04%
QC value within limits for Cr 267.716 Recovery = 102.92%								
Cu 327.393	103572.3	987.4	ug/L	26.42	987.4	ug/L	26.42	2.68%
QC value within limits for Cu 327.393 Recovery = 98.74%								
Fe 273.955	640654.2	24940	ug/L	552.0	24940	ug/L	552.0	2.21%
QC value within limits for Fe 273.955 Recovery = 99.77%								
K 766.490	49560.6	24190	ug/L	458.3	24190	ug/L	458.3	1.90%
QC value within limits for K 766.490 Recovery = 96.74%								
Mg 285.213	491571.4	25110	ug/L	235.6	25110	ug/L	235.6	0.94%
QC value within limits for Mg 285.213 Recovery = 100.45%								
Mn 257.610	57169.0	1024	ug/L	26.0	1024	ug/L	26.0	2.54%
QC value within limits for Mn 257.610 Recovery = 102.37%								
Mo 202.031	41257.2	1042	ug/L	21.8	1042	ug/L	21.8	2.10%
QC value within limits for Mo 202.031 Recovery = 104.24%								
Na 589.592	336683.4	24400	ug/L	226.5	24400	ug/L	226.5	0.93%
QC value within limits for Na 589.592 Recovery = 97.59%								
Ni 231.604	64010.3	1049	ug/L	21.9	1049	ug/L	21.9	2.09%
QC value within limits for Ni 231.604 Recovery = 104.95%								
P 213.617	30370.5	4727	ug/L	110.0	4727	ug/L	110.0	2.33%
QC value within limits for P 213.617 Recovery = 94.53%								
Pb 220.353	14792.2	1041	ug/L	3.9	1041	ug/L	3.9	0.37%
QC value within limits for Pb 220.353 Recovery = 104.12%								
Sb 206.836	6007.0	1094	ug/L	7.1	1094	ug/L	7.1	0.65%
QC value within limits for Sb 206.836 Recovery = 109.42%								
Se 196.026	5153.5	993.3	ug/L	8.99	993.3	ug/L	8.99	0.90%
QC value within limits for Se 196.026 Recovery = 99.33%								
Sn 189.927	3804.2	544.1	ug/L	0.94	544.1	ug/L	0.94	0.17%
QC value within limits for Sn 189.927 Recovery = 108.82%								
Sr 421.552	1041400.3	987.8	ug/L	9.63	987.8	ug/L	9.63	0.97%
QC value within limits for Sr 421.552 Recovery = 98.78%								
Ti 337.279	39573.2	957.3	ug/L	24.50	957.3	ug/L	24.50	2.56%
QC value within limits for Ti 337.279 Recovery = 95.73%								
Tl 190.801	6337.6	1017	ug/L	6.7	1017	ug/L	6.7	0.66%
QC value within limits for Tl 190.801 Recovery = 101.70%								
V 292.402	234697.6	1033	ug/L	23.2	1033	ug/L	23.2	2.24%
QC value within limits for V 292.402 Recovery = 103.31%								
Zn 206.200	90111.0	1069	ug/L	21.8	1069	ug/L	21.8	2.04%
QC value within limits for Zn 206.200 Recovery = 106.88%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICB 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/13/12 11:30:30 AM
Data Type: Reprocessed on 11/14/12 11:07:18 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	40.1	0.319	ug/L	1.2307	0.319	ug/L	1.2307	385.44%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	12.8	7.493	ug/L	5.2392	7.493	ug/L	5.2392	69.92%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	6.0	1.264	ug/L	1.5597	1.264	ug/L	1.5597	123.42%
QC value within limits for As 188.979 Recovery = Not calculated								
B	40.8	9.599	ug/L	1.1084	9.599	ug/L	1.1084	11.55%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-13.3	-0.084	ug/L	0.0081	-0.084	ug/L	0.0081	9.72%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-49.2	-0.008	ug/L	0.0097	-0.008	ug/L	0.0097	118.22%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	0.7	0.059	ug/L	1.3560	0.059	ug/L	1.3560	>999.9%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	4.4	0.014	ug/L	0.0073	0.014	ug/L	0.0073	52.99%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	22.8	0.345	ug/L	0.3115	0.345	ug/L	0.3115	90.21%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	9.7	0.073	ug/L	0.2015	0.073	ug/L	0.2015	276.34%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	91.7	0.875	ug/L	0.3493	0.875	ug/L	0.3493	39.93%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	12.4	0.507	ug/L	0.9739	0.507	ug/L	0.9739	192.28%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	53.3	26.02	ug/L	109.022	26.02	ug/L	109.022	419.01%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	12.3	0.627	ug/L	0.8505	0.627	ug/L	0.8505	135.61%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	3.1	0.055	ug/L	0.1367	0.055	ug/L	0.1367	249.83%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	7.7	0.194	ug/L	0.1534	0.194	ug/L	0.1534	78.92%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	141.7	10.27	ug/L	3.866	10.27	ug/L	3.866	37.65%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-0.1	-0.002	ug/L	0.2021	-0.002	ug/L	0.2021	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-1.7	-0.269	ug/L	1.0203	-0.269	ug/L	1.0203	378.91%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	8.5	0.599	ug/L	0.3709	0.599	ug/L	0.3709	61.88%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-0.1	-0.017	ug/L	1.4900	-0.017	ug/L	1.4900	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	1.3	0.252	ug/L	1.7289	0.252	ug/L	1.7289	686.47%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-6.4	-0.922	ug/L	0.2722	-0.922	ug/L	0.2722	29.52%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	19.6	0.019	ug/L	0.0417	0.019	ug/L	0.0417	223.23%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-5.0	-0.120	ug/L	0.1340	-0.120	ug/L	0.1340	111.26%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	4.7	0.757	ug/L	0.4461	0.757	ug/L	0.4461	58.91%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-66.3	-0.284	ug/L	0.0749	-0.284	ug/L	0.0749	26.41%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-18.1	-0.212	ug/L	0.0347	-0.212	ug/L	0.0347	16.39%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 11/13/12 11:39:18 AM
Data Type: Reprocessed on 11/14/12 11:07:20 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	71.4	0.568	ug/L	0.3841	0.568	ug/L	0.3841	67.60%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	323838.2	189600	ug/L	1572.9	189600	ug/L	1572.9	0.83%
QC value within limits for Al 308.215 Recovery = 94.80%								
As 188.979	2.0	0.424	ug/L	1.1273	0.424	ug/L	1.1273	266.06%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2147.9	59.29	ug/L	21.856	59.29	ug/L	21.856	36.86%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	15691.2	9.322	ug/L	2.7655	9.322	ug/L	2.7655	29.67%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-478.6	-0.080	ug/L	0.0023	-0.080	ug/L	0.0023	2.82%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2237030.6	191600	ug/L	1713.3	191600	ug/L	1713.3	0.89%
QC value within limits for Ca 315.887 Recovery = 95.80%								
Cd 214.440	3291.4	-0.598	ug/L	0.1038	-0.598	ug/L	0.1038	17.35%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	327.5	-0.476	ug/L	0.3324	-0.476	ug/L	0.3324	69.77%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-221.9	-0.573	ug/L	0.0584	-0.573	ug/L	0.0584	10.19%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	99.7	0.951	ug/L	0.0820	0.951	ug/L	0.0820	8.62%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4570520.1	178500	ug/L	2933.7	178500	ug/L	2933.7	1.64%
QC value within limits for Fe 273.955 Recovery = 89.26%								
K 766.490	29.8	-99.12	ug/L	69.388	-99.12	ug/L	69.388	70.01%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3652398.9	186600	ug/L	1692.5	186600	ug/L	1692.5	0.91%
QC value within limits for Mg 285.213 Recovery = 93.29%								
Mn 257.610	-11.9	3.498	ug/L	0.8296	3.498	ug/L	0.8296	23.72%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-579.8	-1.073	ug/L	0.3183	-1.073	ug/L	0.3183	29.66%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	44.4	-41.20	ug/L	4.735	-41.20	ug/L	4.735	11.49%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-108.3	0.085	ug/L	0.3504	0.085	ug/L	0.3504	411.01%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-22.2	-3.451	ug/L	2.3706	-3.451	ug/L	2.3706	68.69%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-16.1	-1.135	ug/L	0.5854	-1.135	ug/L	0.5854	51.57%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-17.3	-3.146	ug/L	0.4996	-3.146	ug/L	0.4996	15.88%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-469.9	-3.435	ug/L	4.1145	-3.435	ug/L	4.1145	119.79%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-22.9	-3.272	ug/L	0.3468	-3.272	ug/L	0.3468	10.60%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2353.2	0.860	ug/L	0.1405	0.860	ug/L	0.1405	16.34%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	127.2	-0.268	ug/L	0.8543	-0.268	ug/L	0.8543	319.10%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-3.6	-0.573	ug/L	0.4517	-0.573	ug/L	0.4517	78.78%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	10535.5	0.007	ug/L	0.6032	0.007	ug/L	0.6032	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	935.4	1.914	ug/L	0.0684	1.914	ug/L	0.0684	3.57%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 11/13/12 11:43:25 AM
Data Type: Reprocessed on 11/14/12 11:07:21 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	130908.6	1041	ug/L	15.1	1041	ug/L	15.1	1.45%
QC value within limits for Ag 338.289 Recovery = 104.13%								
Al 308.215	317010.7	185600	ug/L	2409.9	185600	ug/L	2409.9	1.30%
QC value within limits for Al 308.215 Recovery = 92.80%								
As 188.979	2266.7	475.2	ug/L	1.81	475.2	ug/L	1.81	0.38%
QC value within limits for As 188.979 Recovery = 95.04%								
B	-2101.5	58.53	ug/L	3.285	58.53	ug/L	3.285	5.61%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	90497.9	478.3	ug/L	5.41	478.3	ug/L	5.41	1.13%
QC value within limits for Ba 233.527 Recovery = 95.67%								
Be 313.107	2825220.7	472.6	ug/L	5.45	472.6	ug/L	5.45	1.15%
QC value within limits for Be 313.107 Recovery = 94.51%								
Ca 315.887	2186531.6	187300	ug/L	2446.3	187300	ug/L	2446.3	1.31%
QC value within limits for Ca 315.887 Recovery = 93.64%								
Cd 214.440	303594.7	938.9	ug/L	9.95	938.9	ug/L	9.95	1.06%
QC value within limits for Cd 214.440 Recovery = 93.89%								
Co 228.616	31221.2	466.8	ug/L	5.27	466.8	ug/L	5.27	1.13%
QC value within limits for Co 228.616 Recovery = 93.36%								
Cr 267.716	62893.4	477.0	ug/L	3.70	477.0	ug/L	3.70	0.78%
QC value within limits for Cr 267.716 Recovery = 95.41%								
Cu 327.393	51611.3	492.0	ug/L	6.83	492.0	ug/L	6.83	1.39%
QC value within limits for Cu 327.393 Recovery = 98.41%								
Fe 273.955	4480085.7	174900	ug/L	1448.5	174900	ug/L	1448.5	0.83%
QC value within limits for Fe 273.955 Recovery = 87.47%								
K 766.490	63.5	-81.64	ug/L	66.879	-81.64	ug/L	66.879	81.91%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3585094.2	183100	ug/L	2206.0	183100	ug/L	2206.0	1.20%
QC value within limits for Mg 285.213 Recovery = 91.57%								
Mn 257.610	26107.9	470.9	ug/L	0.80	470.9	ug/L	0.80	0.17%
QC value within limits for Mn 257.610 Recovery = 94.17%								
Mo 202.031	19195.9	497.4	ug/L	0.74	497.4	ug/L	0.74	0.15%
QC value within limits for Mo 202.031 Recovery = 99.49%								
Na 589.592	158.0	-33.88	ug/L	12.535	-33.88	ug/L	12.535	36.99%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	57439.9	944.3	ug/L	10.01	944.3	ug/L	10.01	1.06%
QC value within limits for Ni 231.604 Recovery = 94.43%								
P 213.617	7.3	1.141	ug/L	0.9292	1.141	ug/L	0.9292	81.47%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	13554.4	954.1	ug/L	3.49	954.1	ug/L	3.49	0.37%
QC value within limits for Pb 220.353 Recovery = 95.41%								
Sb 206.836	2775.4	505.6	ug/L	1.82	505.6	ug/L	1.82	0.36%
QC value within limits for Sb 206.836 Recovery = 101.11%								
Se 196.026	2048.2	474.8	ug/L	1.56	474.8	ug/L	1.56	0.33%
QC value within limits for Se 196.026 Recovery = 94.95%								
Sn 189.927	-26.3	-3.756	ug/L	2.1963	-3.756	ug/L	2.1963	58.47%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2269.9	0.813	ug/L	0.0677	0.813	ug/L	0.0677	8.32%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	107.7	-0.626	ug/L	0.4432	-0.626	ug/L	0.4432	70.75%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2871.5	460.8	ug/L	0.65	460.8	ug/L	0.65	0.14%
QC value within limits for Tl 190.801 Recovery = 92.16%								
V 292.402	122559.1	497.4	ug/L	6.22	497.4	ug/L	6.22	1.25%
QC value within limits for V 292.402 Recovery = 99.47%								
Zn 206.200	81292.5	951.5	ug/L	8.17	951.5	ug/L	8.17	0.86%
QC value within limits for Zn 206.200 Recovery = 95.15%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/13/12 11:59:34 AM
Data Type: Reprocessed on 11/14/12 11:07:22 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65594.0	521.7	ug/L	2.41	521.7	ug/L	2.41	0.46%
QC value within limits for Ag 338.289 Recovery = 104.35%								
Al 308.215	34344.7	20110	ug/L	248.2	20110	ug/L	248.2	1.23%
QC value within limits for Al 308.215 Recovery = 100.57%								
As 188.979	4818.5	1010	ug/L	1.2	1010	ug/L	1.2	0.12%
QC value within limits for As 188.979 Recovery = 101.01%								
B	4243.1	1060	ug/L	21.0	1060	ug/L	21.0	1.98%
QC value within limits for B Recovery = 106.05%								
Ba 233.527	162615.1	1006	ug/L	4.4	1006	ug/L	4.4	0.44%
QC value within limits for Ba 233.527 Recovery = 100.55%								
Be 313.107	6141152.6	1027	ug/L	4.6	1027	ug/L	4.6	0.44%
QC value within limits for Be 313.107 Recovery = 102.72%								
Ca 315.887	586345.0	50220	ug/L	1076.7	50220	ug/L	1076.7	2.14%
QC value within limits for Ca 315.887 Recovery = 100.44%								
Cd 214.440	331239.6	1035	ug/L	4.1	1035	ug/L	4.1	0.39%
QC value within limits for Cd 214.440 Recovery = 103.52%								
Co 228.616	67524.2	1018	ug/L	5.1	1018	ug/L	5.1	0.51%
QC value within limits for Co 228.616 Recovery = 101.79%								
Cr 267.716	135139.8	1022	ug/L	4.3	1022	ug/L	4.3	0.43%
QC value within limits for Cr 267.716 Recovery = 102.24%								
Cu 327.393	103764.7	989.2	ug/L	4.90	989.2	ug/L	4.90	0.50%
QC value within limits for Cu 327.393 Recovery = 98.92%								
Fe 273.955	519901.4	20220	ug/L	89.0	20220	ug/L	89.0	0.44%
QC value within limits for Fe 273.955 Recovery = 101.12%								
K 766.490	40996.3	20000	ug/L	240.2	20000	ug/L	240.2	1.20%
QC value within limits for K 766.490 Recovery = 99.99%								
Mg 285.213	987140.0	50390	ug/L	960.8	50390	ug/L	960.8	1.91%
QC value within limits for Mg 285.213 Recovery = 100.79%								
Mn 257.610	57287.8	1024	ug/L	12.5	1024	ug/L	12.5	1.22%
QC value within limits for Mn 257.610 Recovery = 102.43%								
Mo 202.031	42069.2	1062	ug/L	2.8	1062	ug/L	2.8	0.26%
QC value within limits for Mo 202.031 Recovery = 106.24%								
Na 589.592	343135.9	24860	ug/L	495.2	24860	ug/L	495.2	1.99%
QC value within limits for Na 589.592 Recovery = 99.46%								
Ni 231.604	62636.0	1027	ug/L	4.6	1027	ug/L	4.6	0.45%
QC value within limits for Ni 231.604 Recovery = 102.68%								
P 213.617	32347.8	5034	ug/L	16.4	5034	ug/L	16.4	0.33%
QC value within limits for P 213.617 Recovery = 100.69%								
Pb 220.353	14653.1	1031	ug/L	1.1	1031	ug/L	1.1	0.11%
QC value within limits for Pb 220.353 Recovery = 103.14%								
Sb 206.836	5804.1	1057	ug/L	4.6	1057	ug/L	4.6	0.43%
QC value within limits for Sb 206.836 Recovery = 105.73%								
Se 196.026	5277.2	1014	ug/L	1.9	1014	ug/L	1.9	0.19%
QC value within limits for Se 196.026 Recovery = 101.37%								
Sn 189.927	7379.4	1055	ug/L	6.5	1055	ug/L	6.5	0.62%
QC value within limits for Sn 189.927 Recovery = 105.54%								
Sr 421.552	1050412.9	996.3	ug/L	20.55	996.3	ug/L	20.55	2.06%
QC value within limits for Sr 421.552 Recovery = 99.63%								
Ti 337.279	43415.4	1050	ug/L	14.4	1050	ug/L	14.4	1.38%
QC value within limits for Ti 337.279 Recovery = 104.99%								
Tl 190.801	6391.4	1026	ug/L	2.1	1026	ug/L	2.1	0.21%
QC value within limits for Tl 190.801 Recovery = 102.56%								
V 292.402	233769.6	1030	ug/L	4.1	1030	ug/L	4.1	0.39%
QC value within limits for V 292.402 Recovery = 103.04%								
Zn 206.200	88376.4	1049	ug/L	6.2	1049	ug/L	6.2	0.59%
QC value within limits for Zn 206.200 Recovery = 104.87%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/13/12 12:03:39 PM
Data Type: Reprocessed on 11/14/12 11:07:23 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	35.4	0.281	ug/L	0.0799	0.281	ug/L	0.0799	28.37%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	5.8	3.382	ug/L	4.1797	3.382	ug/L	4.1797	123.59%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	6.9	1.447	ug/L	1.3960	1.447	ug/L	1.3960	96.49%
QC value within limits for As 188.979 Recovery = Not calculated								
B	43.3	10.22	ug/L	0.817	10.22	ug/L	0.817	7.99%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	9.1	0.054	ug/L	0.1189	0.054	ug/L	0.1189	220.99%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	77.1	0.013	ug/L	0.0216	0.013	ug/L	0.0216	167.19%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	27.0	2.308	ug/L	1.6486	2.308	ug/L	1.6486	71.42%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	31.5	0.099	ug/L	0.0490	0.099	ug/L	0.0490	49.69%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	14.6	0.222	ug/L	0.0781	0.222	ug/L	0.0781	35.18%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	21.3	0.161	ug/L	0.2210	0.161	ug/L	0.2210	137.49%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	164.7	1.571	ug/L	0.3599	1.571	ug/L	0.3599	22.91%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	127.9	5.002	ug/L	0.1708	5.002	ug/L	0.1708	3.41%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	155.7	76.03	ug/L	21.022	76.03	ug/L	21.022	27.65%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	40.4	2.067	ug/L	0.2313	2.067	ug/L	0.2313	11.19%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	6.9	0.124	ug/L	0.0792	0.124	ug/L	0.0792	63.66%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	13.9	0.350	ug/L	0.0932	0.350	ug/L	0.0932	26.60%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	37.9	2.717	ug/L	4.1584	2.717	ug/L	4.1584	153.06%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	1.3	0.020	ug/L	0.1609	0.020	ug/L	0.1609	800.00%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	4.1	0.643	ug/L	0.3537	0.643	ug/L	0.3537	54.98%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	8.2	0.579	ug/L	0.4223	0.579	ug/L	0.4223	72.90%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	2.1	0.376	ug/L	0.3628	0.376	ug/L	0.3628	96.50%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-5.7	-1.092	ug/L	2.6185	-1.092	ug/L	2.6185	239.86%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	7.5	1.067	ug/L	0.3965	1.067	ug/L	0.3965	37.15%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	207.0	0.197	ug/L	0.0971	0.197	ug/L	0.0971	49.40%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-19.8	-0.480	ug/L	0.3566	-0.480	ug/L	0.3566	74.28%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2.3	0.366	ug/L	0.1330	0.366	ug/L	0.1330	36.36%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-29.9	-0.124	ug/L	0.1303	-0.124	ug/L	0.1303	105.44%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	11.9	0.143	ug/L	0.1010	0.143	ug/L	0.1010	70.80%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 106
Sample ID: CCV1 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/13/12 7:43:35 PM
Data Type: Reprocessed on 11/14/12 11:09:03 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	64624.3	514.0	ug/L	3.85	514.0	ug/L	3.85	0.75%
QC value within limits for Ag 338.289 Recovery = 102.81%								
Al 308.215	33622.5	19690	ug/L	133.1	19690	ug/L	133.1	0.68%
QC value within limits for Al 308.215 Recovery = 98.46%								
As 188.979	4916.8	1031	ug/L	4.1	1031	ug/L	4.1	0.40%
QC value within limits for As 188.979 Recovery = 103.07%								
B	3756.6	946.6	ug/L	8.00	946.6	ug/L	8.00	0.84%
QC value within limits for B Recovery = 94.66%								
Ba 233.527	163572.1	1011	ug/L	3.9	1011	ug/L	3.9	0.38%
QC value within limits for Ba 233.527 Recovery = 101.14%								
Be 313.107	6157333.1	1030	ug/L	8.9	1030	ug/L	8.9	0.86%
QC value within limits for Be 313.107 Recovery = 102.99%								
Ca 315.887	569350.9	48760	ug/L	583.8	48760	ug/L	583.8	1.20%
QC value within limits for Ca 315.887 Recovery = 97.53%								
Cd 214.440	333366.1	1042	ug/L	3.0	1042	ug/L	3.0	0.29%
QC value within limits for Cd 214.440 Recovery = 104.19%								
Co 228.616	68255.3	1029	ug/L	4.1	1029	ug/L	4.1	0.40%
QC value within limits for Co 228.616 Recovery = 102.91%								
Cr 267.716	136137.8	1030	ug/L	3.0	1030	ug/L	3.0	0.29%
QC value within limits for Cr 267.716 Recovery = 103.00%								
Cu 327.393	103924.8	990.8	ug/L	3.69	990.8	ug/L	3.69	0.37%
QC value within limits for Cu 327.393 Recovery = 99.08%								
Fe 273.955	523916.8	20380	ug/L	71.1	20380	ug/L	71.1	0.35%
QC value within limits for Fe 273.955 Recovery = 101.90%								
K 766.490	43081.6	21020	ug/L	166.2	21020	ug/L	166.2	0.79%
QC value within limits for K 766.490 Recovery = 105.08%								
Mg 285.213	922297.9	47090	ug/L	503.1	47090	ug/L	503.1	1.07%
QC value within limits for Mg 285.213 Recovery = 94.17%								
Mn 257.610	54883.0	981.4	ug/L	9.18	981.4	ug/L	9.18	0.94%
QC value within limits for Mn 257.610 Recovery = 98.14%								
Mo 202.031	42480.5	1073	ug/L	4.4	1073	ug/L	4.4	0.41%
QC value within limits for Mo 202.031 Recovery = 107.28%								
Na 589.592	361799.9	26220	ug/L	240.9	26220	ug/L	240.9	0.92%
QC value within limits for Na 589.592 Recovery = 104.87%								
Ni 231.604	63122.9	1035	ug/L	3.6	1035	ug/L	3.6	0.35%
QC value within limits for Ni 231.604 Recovery = 103.48%								
P 213.617	32538.2	5064	ug/L	15.7	5064	ug/L	15.7	0.31%
QC value within limits for P 213.617 Recovery = 101.28%								
Pb 220.353	14977.8	1054	ug/L	3.5	1054	ug/L	3.5	0.33%
QC value within limits for Pb 220.353 Recovery = 105.43%								
Sb 206.836	5994.7	1092	ug/L	2.1	1092	ug/L	2.1	0.19%
QC value within limits for Sb 206.836 Recovery = 109.20%								
Se 196.026	5428.1	1043	ug/L	4.7	1043	ug/L	4.7	0.45%
QC value within limits for Se 196.026 Recovery = 104.27%								
Sn 189.927	8092.5	1157	ug/L	7.9	1157	ug/L	7.9	0.68%
QC value greater than the upper limit for Sn 189.927 Recovery = 115.74%								
Sr 421.552	1059610.4	1005	ug/L	10.4	1005	ug/L	10.4	1.04%
QC value within limits for Sr 421.552 Recovery = 100.50%								
Ti 337.279	41178.7	995.8	ug/L	8.35	995.8	ug/L	8.35	0.84%
QC value within limits for Ti 337.279 Recovery = 99.58%								
Tl 190.801	6255.2	1004	ug/L	3.3	1004	ug/L	3.3	0.33%
QC value within limits for Tl 190.801 Recovery = 100.38%								
V 292.402	236985.1	1045	ug/L	4.2	1045	ug/L	4.2	0.40%
QC value within limits for V 292.402 Recovery = 104.45%								
Zn 206.200	89450.7	1061	ug/L	4.1	1061	ug/L	4.1	0.39%
QC value within limits for Zn 206.200 Recovery = 106.14%								

QC Failed. Continue with analysis.

Sequence No.: 107
Sample ID: CCB 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/13/12 7:47:39 PM
Data Type: Reprocessed on 11/14/12 11:09:04 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	10.5	0.084	ug/L	0.3244	0.084	ug/L	0.3244	388.48%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	4.2	2.464	ug/L	6.9834	2.464	ug/L	6.9834	283.45%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	2.0	0.415	ug/L	0.0434	0.415	ug/L	0.0434	10.45%
QC value within limits for As 188.979 Recovery = Not calculated								
B	33.8	7.964	ug/L	2.1102	7.964	ug/L	2.1102	26.50%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	19.2	0.117	ug/L	0.0663	0.117	ug/L	0.0663	56.43%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-934.9	-0.156	ug/L	0.0193	-0.156	ug/L	0.0193	12.34%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	198.7	17.00	ug/L	0.527	17.00	ug/L	0.527	3.10%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	4.4	0.013	ug/L	0.0289	0.013	ug/L	0.0289	214.60%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	30.7	0.463	ug/L	0.1154	0.463	ug/L	0.1154	24.92%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	0.0	-0.001	ug/L	0.0678	-0.001	ug/L	0.0678	>999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	28.1	0.268	ug/L	0.2496	0.268	ug/L	0.2496	93.13%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	107.1	4.209	ug/L	0.5676	4.209	ug/L	0.5676	13.49%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	81.0	39.67	ug/L	145.423	39.67	ug/L	145.423	366.61%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	23.1	1.177	ug/L	0.8706	1.177	ug/L	0.8706	73.99%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	0.1	0.002	ug/L	0.1229	0.002	ug/L	0.1229	>999.9%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	0.6	0.015	ug/L	0.2495	0.015	ug/L	0.2495	>999.9%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	6804.3	493.5	ug/L	36.86	493.5	ug/L	36.86	7.47%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-7.5	-0.124	ug/L	0.0432	-0.124	ug/L	0.0432	34.78%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-22.6	-3.514	ug/L	1.0087	-3.514	ug/L	1.0087	28.70%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-3.1	-0.221	ug/L	0.4725	-0.221	ug/L	0.4725	214.27%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-8.3	-1.506	ug/L	0.2339	-1.506	ug/L	0.2339	15.53%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-4.1	-0.788	ug/L	1.5598	-0.788	ug/L	1.5598	197.85%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-2.2	-0.308	ug/L	0.2379	-0.308	ug/L	0.2379	77.35%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	104.1	0.098	ug/L	0.0891	0.098	ug/L	0.0891	90.96%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-4.2	-0.101	ug/L	0.3859	-0.101	ug/L	0.3859	382.31%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	7.9	1.260	ug/L	0.1359	1.260	ug/L	0.1359	10.78%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-88.7	-0.386	ug/L	0.0621	-0.386	ug/L	0.0621	16.10%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-87.9	-1.028	ug/L	0.2444	-1.028	ug/L	0.2444	23.78%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 117
Sample ID: CCV2 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 11/13/12 8:37:44 PM
Data Type: Reprocessed on 11/14/12 11:09:14 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	44877.2	357.0	ug/L	1.51	357.0	ug/L	1.51	0.42%
QC value within limits for Ag 338.289 Recovery = 95.19%								
Al 308.215	22420.3	13130	ug/L	62.7	13130	ug/L	62.7	0.48%
QC value less than the lower limit for Al 308.215 Recovery = 87.54%								
As 188.979	3323.6	696.8	ug/L	3.09	696.8	ug/L	3.09	0.44%
QC value within limits for As 188.979 Recovery = 92.90%								
B	2447.1	618.4	ug/L	6.69	618.4	ug/L	6.69	1.08%
QC value less than the lower limit for B Recovery = 82.46%								
Ba 233.527	111466.4	689.3	ug/L	1.82	689.3	ug/L	1.82	0.26%
QC value within limits for Ba 233.527 Recovery = 91.90%								
Be 313.107	4210473.4	704.3	ug/L	7.36	704.3	ug/L	7.36	1.05%
QC value within limits for Be 313.107 Recovery = 93.90%								
Ca 315.887	375312.7	32150	ug/L	781.9	32150	ug/L	781.9	2.43%
QC value less than the lower limit for Ca 315.887 Recovery = 85.72%								
Cd 214.440	228957.9	715.6	ug/L	2.28	715.6	ug/L	2.28	0.32%
QC value within limits for Cd 214.440 Recovery = 95.41%								
Co 228.616	46753.5	705.1	ug/L	4.18	705.1	ug/L	4.18	0.59%
QC value within limits for Co 228.616 Recovery = 94.01%								
Cr 267.716	93804.1	709.7	ug/L	1.57	709.7	ug/L	1.57	0.22%
QC value within limits for Cr 267.716 Recovery = 94.63%								
Cu 327.393	71135.1	678.2	ug/L	2.38	678.2	ug/L	2.38	0.35%
QC value within limits for Cu 327.393 Recovery = 90.42%								
Fe 273.955	355612.1	13830	ug/L	56.8	13830	ug/L	56.8	0.41%
QC value within limits for Fe 273.955 Recovery = 92.22%								
K 766.490	29604.7	14440	ug/L	283.0	14440	ug/L	283.0	1.96%
QC value within limits for K 766.490 Recovery = 96.28%								
Mg 285.213	615961.9	31450	ug/L	670.4	31450	ug/L	670.4	2.13%
QC value less than the lower limit for Mg 285.213 Recovery = 83.86%								
Mn 257.610	36498.3	652.7	ug/L	2.84	652.7	ug/L	2.84	0.44%
QC value less than the lower limit for Mn 257.610 Recovery = 87.02%								
Mo 202.031	30045.5	758.7	ug/L	2.03	758.7	ug/L	2.03	0.27%
QC value within limits for Mo 202.031 Recovery = 101.16%								
Na 589.592	239904.7	17380	ug/L	391.6	17380	ug/L	391.6	2.25%
QC value within limits for Na 589.592 Recovery = 92.72%								
Ni 231.604	43536.8	713.7	ug/L	1.87	713.7	ug/L	1.87	0.26%
QC value within limits for Ni 231.604 Recovery = 95.17%								
P 213.617	22925.9	3568	ug/L	9.9	3568	ug/L	9.9	0.28%
QC value within limits for P 213.617 Recovery = 95.15%								
Pb 220.353	10202.5	718.1	ug/L	2.40	718.1	ug/L	2.40	0.33%
QC value within limits for Pb 220.353 Recovery = 95.75%								
Sb 206.836	4029.5	734.0	ug/L	4.74	734.0	ug/L	4.74	0.65%
QC value within limits for Sb 206.836 Recovery = 97.87%								
Se 196.026	3666.8	704.4	ug/L	1.31	704.4	ug/L	1.31	0.19%
QC value within limits for Se 196.026 Recovery = 93.92%								
Sn 189.927	5494.0	785.8	ug/L	6.32	785.8	ug/L	6.32	0.80%
QC value within limits for Sn 189.927 Recovery = 104.77%								
Sr 421.552	712213.9	675.5	ug/L	17.27	675.5	ug/L	17.27	2.56%
QC value within limits for Sr 421.552 Recovery = 90.07%								
Ti 337.279	27209.4	658.0	ug/L	0.62	658.0	ug/L	0.62	0.09%
QC value less than the lower limit for Ti 337.279 Recovery = 87.73%								
Tl 190.801	4212.3	675.9	ug/L	4.59	675.9	ug/L	4.59	0.68%
QC value within limits for Tl 190.801 Recovery = 90.13%								
V 292.402	162689.2	717.5	ug/L	1.92	717.5	ug/L	1.92	0.27%
QC value within limits for V 292.402 Recovery = 95.66%								
Zn 206.200	61356.7	728.1	ug/L	3.16	728.1	ug/L	3.16	0.43%
QC value within limits for Zn 206.200 Recovery = 97.08%								

QC Failed. Continue with analysis.

Sequence No.: 118
Sample ID: CCB 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/13/12 8:41:12 PM
Data Type: Reprocessed on 11/14/12 11:09:15 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	63.6	0.505	ug/L	0.8277	0.505	ug/L	0.8277	163.75%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-2.9	-1.692	ug/L	0.9873	-1.692	ug/L	0.9873	58.35%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	10.6	2.225	ug/L	0.4209	2.225	ug/L	0.4209	18.92%
QC value within limits for As 188.979 Recovery = Not calculated								
B	23.9	5.629	ug/L	0.9406	5.629	ug/L	0.9406	16.71%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	52.0	0.323	ug/L	0.0335	0.323	ug/L	0.0335	10.36%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-1054.7	-0.176	ug/L	0.0172	-0.176	ug/L	0.0172	9.77%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	160.7	13.76	ug/L	0.384	13.76	ug/L	0.384	2.79%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	93.3	0.292	ug/L	0.0173	0.292	ug/L	0.0173	5.95%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	25.9	0.390	ug/L	0.1433	0.390	ug/L	0.1433	36.72%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-32.8	-0.248	ug/L	0.1090	-0.248	ug/L	0.1090	43.94%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	16.1	0.153	ug/L	0.5535	0.153	ug/L	0.5535	361.68%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	40.7	1.600	ug/L	0.5821	1.600	ug/L	0.5821	36.37%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	169.2	82.64	ug/L	57.644	82.64	ug/L	57.644	69.75%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	17.6	0.895	ug/L	0.8104	0.895	ug/L	0.8104	90.53%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-19.1	-0.341	ug/L	0.1124	-0.341	ug/L	0.1124	32.93%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-2.9	-0.073	ug/L	0.1585	-0.073	ug/L	0.1585	218.24%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	874.1	63.36	ug/L	5.416	63.36	ug/L	5.416	8.55%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-19.5	-0.321	ug/L	0.1014	-0.321	ug/L	0.1014	31.55%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	99.0	15.41	ug/L	1.241	15.41	ug/L	1.241	8.05%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	6.2	0.434	ug/L	0.6091	0.434	ug/L	0.6091	140.40%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-7.1	-1.288	ug/L	0.2903	-1.288	ug/L	0.2903	22.53%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-12.5	-2.379	ug/L	0.9482	-2.379	ug/L	0.9482	39.86%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-12.4	-1.768	ug/L	1.1727	-1.768	ug/L	1.1727	66.32%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	0.2	0.000	ug/L	0.1293	0.000	ug/L	0.1293	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-3.7	-0.089	ug/L	0.0547	-0.089	ug/L	0.0547	61.42%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.9	1.429	ug/L	0.6463	1.429	ug/L	0.6463	45.24%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-40.2	-0.178	ug/L	0.1213	-0.178	ug/L	0.1213	68.16%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	5.6	0.064	ug/L	0.3277	0.064	ug/L	0.3277	509.64%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 1
Sample ID: CalBlk 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/27/12 3:48:30 PM
Data Type: Reprocessed on 11/28/12 2:44:35 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CalBlk 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-169.3	80.96	47.83%	[0.00]	ug/L
Al 308.215	164.3	7.46	4.54%	[0.00]	ug/L
As 188.979	-3.1	9.45	309.37%	[0.00]	ug/L
B	18.1	6.49	35.84%	[0.00]	ug/L
Ba 233.527	133.0	4.33	3.25%	[0.00]	ug/L
Be 313.107	1663.5	69.78	4.19%	[0.00]	ug/L
Ca 315.887	-433.4	19.15	4.42%	[0.00]	ug/L
Cd 214.440	434.8	11.01	2.53%	[0.00]	ug/L
Co 228.616	78.4	5.02	6.39%	[0.00]	ug/L
Cr 267.716	718.1	13.21	1.84%	[0.00]	ug/L
Cu 327.393	-28.3	43.22	152.54%	[0.00]	ug/L
Fe 273.955	270.4	10.79	3.99%	[0.00]	ug/L
K 766.490	-517.6	66.47	12.84%	[0.00]	ug/L
Mg 285.213	-118.8	12.09	10.17%	[0.00]	ug/L
Mn 257.610	-67.2	6.99	10.41%	[0.00]	ug/L
Mo 202.031	186.8	4.87	2.60%	[0.00]	ug/L
Na 589.592	75.4	113.18	150.04%	[0.00]	ug/L
Ni 231.604	-205.5	16.19	7.88%	[0.00]	ug/L
P 213.617	54.5	8.99	16.50%	[0.00]	ug/L
Pb 220.353	-37.2	4.02	10.81%	[0.00]	ug/L
Sb 206.836	2.4	1.46	59.88%	[0.00]	ug/L
Se 196.026	3.9	7.90	201.02%	[0.00]	ug/L
Sn 189.927	-9.5	2.55	27.02%	[0.00]	ug/L
Sr 421.552	1122.3	95.33	8.49%	[0.00]	ug/L
Ti 337.279	-430.8	17.23	4.00%	[0.00]	ug/L
Tl 190.801	-8.7	1.65	18.92%	[0.00]	ug/L
V 292.402	-683.5	86.70	12.69%	[0.00]	ug/L
Zn 206.200	-571.4	8.33	1.46%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/27/12 3:52:33 PM
Data Type: Reprocessed on 11/28/12 2:44:37 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	103.0	169.03	164.13%	[1.00]	ug/L
Al 308.215	191.5	12.31	6.43%	[100.00]	ug/L
As 188.979	19.2	4.20	21.83%	[3.50]	ug/L
B	223.4	7.45	3.34%	[50.00]	ug/L
Ba 233.527	939.4	15.45	1.65%	[5.00]	ug/L
Be 313.107	14451.2	266.08	1.84%	[2.00]	ug/L
Ca 315.887	1602.3	10.75	0.67%	[100.00]	ug/L
Cd 214.440	2219.6	9.39	0.42%	[5.00]	ug/L
Co 228.616	403.7	14.68	3.64%	[5.00]	ug/L
Cr 267.716	825.9	17.01	2.06%	[5.00]	ug/L
Cu 327.393	503.7	61.74	12.26%	[5.00]	ug/L
Fe 273.955	1530.5	27.06	1.77%	[50.00]	ug/L
K 766.490	2102.1	130.80	6.22%	[1000.00]	ug/L
Mg 285.213	1144.9	10.71	0.94%	[50]	ug/L
Mn 257.610	316.8	4.90	1.55%	[5.00]	ug/L
Mo 202.031	238.5	14.41	6.04%	[5.00]	ug/L
Na 589.592	14671.9	190.00	1.30%	[1000.00]	ug/L
Ni 231.604	400.3	5.24	1.31%	[5.00]	ug/L
P 213.617	189.6	3.21	1.69%	[25.00]	ug/L
Pb 220.353	60.8	8.19	13.48%	[3.00]	ug/L
Sb 206.836	34.9	4.64	13.27%	[5.00]	ug/L
Se 196.026	20.3	4.48	22.11%	[5.00]	ug/L
Sn 189.927	36.2	3.98	11.01%	[5.00]	ug/L
Sr 421.552	5714.0	80.89	1.42%	[5.00]	ug/L
Ti 337.279	234.0	15.40	6.58%	[5.00]	ug/L
Tl 190.801	33.9	3.11	9.18%	[5.00]	ug/L
V 292.402	1287.7	62.62	4.86%	[5.00]	ug/L
Zn 206.200	2375.9	15.46	0.65%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/27/12 3:56:43 PM
Data Type: Reprocessed on 11/28/12 2:44:38 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	64495.2	897.33	1.39%	[500.0]	ug/L
Al 308.215	36968.3	313.85	0.85%	[20000.00]	ug/L
As 188.979	5469.6	20.87	0.38%	[1000.00]	ug/L
B	4253.0	55.71	1.31%	[1000.00]	ug/L
Ba 233.527	173659.4	1999.84	1.15%	[1000.00]	ug/L
Be 313.107	6766569.4	49112.68	0.73%	[1000.00]	ug/L
Ca 315.887	672637.1	6294.51	0.94%	[50000]	ug/L
Cd 214.440	394267.4	5218.50	1.32%	[1000.00]	ug/L
Co 228.616	73125.5	1050.77	1.44%	[1000.00]	ug/L
Cr 267.716	151332.1	1619.50	1.07%	[1000.00]	ug/L
Cu 327.393	103474.9	974.44	0.94%	[1000.00]	ug/L
Fe 273.955	565515.9	7005.08	1.24%	[20000]	ug/L
K 766.490	47358.3	584.83	1.23%	[20000]	ug/L
Mg 285.213	1058864.8	7554.84	0.71%	[50000]	ug/L
Mn 257.610	57872.3	600.72	1.04%	[1000.00]	ug/L
Mo 202.031	47622.3	265.85	0.56%	[1000.00]	ug/L
Na 589.592	341888.7	2613.78	0.76%	[25000]	ug/L
Ni 231.604	68927.7	786.56	1.14%	[1000.00]	ug/L
P 213.617	38163.6	315.34	0.83%	[5000]	ug/L
Pb 220.353	16028.8	201.25	1.26%	[1000.00]	ug/L
Sb 206.836	6837.4	46.21	0.68%	[1000.00]	ug/L
Se 196.026	5186.5	19.59	0.38%	[1000.00]	ug/L
Sn 189.927	8160.9	31.69	0.39%	[1000.00]	ug/L
Sr 421.552	1055752.6	9626.81	0.91%	[1000.00]	ug/L
Ti 337.279	47617.0	610.30	1.28%	[1000.00]	ug/L
Tl 190.801	7012.5	74.30	1.06%	[1000.00]	ug/L
V 292.402	248746.7	2860.97	1.15%	[1000.00]	ug/L
Zn 206.200	98555.6	1301.89	1.32%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 11/27/12 3:59:10 PM
Data Type: Reprocessed on 11/28/12 2:44:39 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	126082.8	2496.37	1.98%	[1000.00]	ug/L
Al 308.215	73201.9	305.10	0.42%	[40000.00]	ug/L
As 188.979	10736.6	95.39	0.89%	[2000.00]	ug/L
B	8463.0	57.24	0.68%	[2000.00]	ug/L
Ba 233.527	335614.6	1964.74	0.59%	[2000.00]	ug/L
Be 313.107	12803933.0	126113.14	0.98%	[2000.00]	ug/L
Ca 315.887	1315440.7	3190.36	0.24%	[100000.0]	ug/L
Cd 214.440	750445.8	4443.82	0.59%	[2000.00]	ug/L
Co 228.616	140817.7	886.11	0.63%	[2000.00]	ug/L
Cr 267.716	291229.2	1711.31	0.59%	[2000.00]	ug/L
Cu 327.393	203006.8	2541.48	1.25%	[2000.00]	ug/L
Fe 273.955	1087559.9	6892.75	0.63%	[40000]	ug/L
K 766.490	94745.2	138.23	0.15%	[40000]	ug/L
Mg 285.213	2054006.6	4931.44	0.24%	[100000]	ug/L
Mn 257.610	112761.8	483.22	0.43%	[2000.00]	ug/L
Mo 202.031	89928.8	722.27	0.80%	[2000.00]	ug/L
Na 589.592	674862.4	1399.20	0.21%	[50000]	ug/L
Ni 231.604	131594.3	1027.50	0.78%	[2000.00]	ug/L
P 213.617	72519.9	788.11	1.09%	[10000]	ug/L
Pb 220.353	30830.2	357.58	1.16%	[2000.00]	ug/L
Sb 206.836	13355.0	102.34	0.77%	[2000.00]	ug/L
Se 196.026	10070.0	67.85	0.67%	[2000.00]	ug/L
Sn 189.927	15851.8	239.60	1.51%	[2000.00]	ug/L
Sr 421.552	2085351.6	3545.37	0.17%	[2000.00]	ug/L
Ti 337.279	94083.3	443.81	0.47%	[2000.00]	ug/L
Tl 190.801	13555.2	88.59	0.65%	[2000.00]	ug/L
V 292.402	482856.5	3689.23	0.76%	[2000.00]	ug/L
Zn 206.200	187001.4	1134.27	0.61%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	126.7	0.00000	0.999958	
Al 308.215	3	Lin Thru 0	0.0	1.834	0.00000	0.999992	
As 188.979	3	Lin Thru 0	0.0	5.389	0.00000	0.999972	
B	3	Lin Thru 0	0.0	4.236	0.00000	0.999997	
Ba 233.527	3	Lin Thru 0	0.0	169.0	0.00000	0.999904	
Be 313.107	3	Lin Thru 0	0.0	6475	0.00000	0.999746	
Ca 315.887	3	Lin Thru 0	0.0	13.21	0.00000	0.999959	
Cd 214.440	3	Lin Thru 0	0.0	379.0	0.00000	0.999798	
Co 228.616	3	Lin Thru 0	0.0	70.95	0.00000	0.999883	
Cr 267.716	3	Lin Thru 0	0.0	146.8	0.00000	0.999879	
Cu 327.393	3	Lin Thru 0	0.0	101.9	0.00000	0.999970	
Fe 273.955	3	Lin Thru 0	0.0	27.41	0.00000	0.999874	
K 766.490	3	Lin Thru 0	0.0	2.368	0.00000	0.999997	
Mg 285.213	3	Lin Thru 0	0.0	20.67	0.00000	0.999924	
Mn 257.610	3	Lin Thru 0	0.0	56.68	0.00000	0.999945	
Mo 202.031	3	Lin Thru 0	0.0	45.50	0.00000	0.999727	
Na 589.592	3	Lin Thru 0	0.0	13.53	0.00000	0.999985	
Ni 231.604	3	Lin Thru 0	0.0	66.42	0.00000	0.999822	
P 213.617	3	Lin Thru 0	0.0	7.328	0.00000	0.999784	
Pb 220.353	3	Lin Thru 0	0.0	15.54	0.00000	0.999875	
Sb 206.836	3	Lin Thru 0	0.0	6.709	0.00000	0.999955	
Se 196.026	3	Lin Thru 0	0.0	5.065	0.00000	0.999928	
Sn 189.927	3	Lin Thru 0	0.0	7.973	0.00000	0.999930	
Sr 421.552	3	Lin Thru 0	0.0	1045	0.00000	0.999987	
Ti 337.279	3	Lin Thru 0	0.0	47.16	0.00000	0.999988	
Tl 190.801	3	Lin Thru 0	0.0	6.825	0.00000	0.999905	

V 292.402	3	Lin Thru 0	0.0	242.9	0.00000	0.999927
Zn 206.200	3	Lin Thru 0	0.0	94.51	0.00000	0.999769

Sequence No.: 5
Sample ID: ICV 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 11/27/12 4:03:51 PM
Data Type: Reprocessed on 11/28/12 2:44:40 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	66057.3	521.5	ug/L	5.55	521.5	ug/L	5.55	1.06%
QC value within limits for Ag 338.289 Recovery = 104.30%								
Al 308.215	45926.4	25060	ug/L	121.2	25060	ug/L	121.2	0.48%
QC value within limits for Al 308.215 Recovery = 100.23%								
As 188.979	5398.0	1002	ug/L	10.8	1002	ug/L	10.8	1.07%
QC value within limits for As 188.979 Recovery = 100.18%								
B	4256.2	1086	ug/L	4.8	1086	ug/L	4.8	0.44%
QC value within limits for B Recovery = 108.61%								
Ba 233.527	175577.5	1025	ug/L	8.1	1025	ug/L	8.1	0.79%
QC value within limits for Ba 233.527 Recovery = 102.47%								
Be 313.107	6845198.3	1057	ug/L	12.6	1057	ug/L	12.6	1.19%
QC value within limits for Be 313.107 Recovery = 105.72%								
Ca 315.887	343519.7	25990	ug/L	417.3	25990	ug/L	417.3	1.61%
QC value within limits for Ca 315.887 Recovery = 103.94%								
Cd 214.440	403059.9	1063	ug/L	7.6	1063	ug/L	7.6	0.71%
QC value within limits for Cd 214.440 Recovery = 106.28%								
Co 228.616	75372.3	1061	ug/L	8.1	1061	ug/L	8.1	0.77%
QC value within limits for Co 228.616 Recovery = 106.13%								
Cr 267.716	154704.8	1055	ug/L	7.5	1055	ug/L	7.5	0.71%
QC value within limits for Cr 267.716 Recovery = 105.53%								
Cu 327.393	103211.4	1013	ug/L	9.0	1013	ug/L	9.0	0.88%
QC value within limits for Cu 327.393 Recovery = 101.29%								
Fe 273.955	714672.0	25990	ug/L	192.2	25990	ug/L	192.2	0.74%
QC value within limits for Fe 273.955 Recovery = 103.96%								
K 766.490	59271.3	25010	ug/L	216.6	25010	ug/L	216.6	0.87%
QC value within limits for K 766.490 Recovery = 100.06%								
Mg 285.213	540582.1	26190	ug/L	390.7	26190	ug/L	390.7	1.49%
QC value within limits for Mg 285.213 Recovery = 104.74%								
Mn 257.610	59403.3	1048	ug/L	7.1	1048	ug/L	7.1	0.68%
QC value within limits for Mn 257.610 Recovery = 104.84%								
Mo 202.031	47439.2	1045	ug/L	4.5	1045	ug/L	4.5	0.43%
QC value within limits for Mo 202.031 Recovery = 104.54%								
Na 589.592	346094.0	25550	ug/L	400.3	25550	ug/L	400.3	1.57%
QC value within limits for Na 589.592 Recovery = 102.21%								
Ni 231.604	71998.6	1082	ug/L	6.0	1082	ug/L	6.0	0.55%
QC value within limits for Ni 231.604 Recovery = 108.17%								
P 213.617	36644.7	5001	ug/L	8.2	5001	ug/L	8.2	0.16%
QC value within limits for P 213.617 Recovery = 100.01%								
Pb 220.353	16583.0	1067	ug/L	8.8	1067	ug/L	8.8	0.83%
QC value within limits for Pb 220.353 Recovery = 106.73%								
Sb 206.836	6764.6	1008	ug/L	4.4	1008	ug/L	4.4	0.44%
QC value within limits for Sb 206.836 Recovery = 100.82%								
Se 196.026	5177.2	1022	ug/L	11.1	1022	ug/L	11.1	1.09%
QC value within limits for Se 196.026 Recovery = 102.21%								
Sn 189.927	4225.7	530.0	ug/L	9.37	530.0	ug/L	9.37	1.77%
QC value within limits for Sn 189.927 Recovery = 106.00%								
Sr 421.552	1061344.7	1015	ug/L	17.4	1015	ug/L	17.4	1.72%
QC value within limits for Sr 421.552 Recovery = 101.51%								
Ti 337.279	46254.5	980.4	ug/L	5.28	980.4	ug/L	5.28	0.54%
QC value within limits for Ti 337.279 Recovery = 98.04%								
Tl 190.801	7099.8	1040	ug/L	2.3	1040	ug/L	2.3	0.22%
QC value within limits for Tl 190.801 Recovery = 104.03%								
V 292.402	252783.9	1058	ug/L	6.9	1058	ug/L	6.9	0.66%
QC value within limits for V 292.402 Recovery = 105.83%								
Zn 206.200	102304.4	1092	ug/L	7.3	1092	ug/L	7.3	0.67%
QC value within limits for Zn 206.200 Recovery = 109.22%								

All analyte(s) passed QC.

Sequence No.: 6 Autosampler Location: 1
Sample ID: ICB 121127EA I:PB O:EA Date Collected: 11/27/12 4:06:46 PM
Analyst: Data Type: Reprocessed on 11/28/12 2:44:41 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: ICB 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	56.8	0.448	ug/L	1.1195	0.448	ug/L	1.1195	249.68%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-16.2	-8.886	ug/L	13.8414	-8.886	ug/L	13.8414	155.76%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	6.4	1.196	ug/L	0.0469	1.196	ug/L	0.0469	3.92%
QC value within limits for As 188.979 Recovery = Not calculated								
B	82.9	19.57	ug/L	0.897	19.57	ug/L	0.897	4.58%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	12.9	0.075	ug/L	0.0221	0.075	ug/L	0.0221	29.49%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	231.9	0.036	ug/L	0.0178	0.036	ug/L	0.0178	49.62%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	35.9	2.712	ug/L	1.3114	2.712	ug/L	1.3114	48.35%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	14.8	0.039	ug/L	0.0601	0.039	ug/L	0.0601	152.63%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	1.6	0.024	ug/L	0.2832	0.024	ug/L	0.2832	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	15.2	0.102	ug/L	0.1698	0.102	ug/L	0.1698	166.12%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	25.4	0.249	ug/L	0.2350	0.249	ug/L	0.2350	94.46%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	20.9	0.794	ug/L	0.8348	0.794	ug/L	0.8348	105.10%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	141.3	59.69	ug/L	4.023	59.69	ug/L	4.023	6.74%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	2.8	0.133	ug/L	0.2597	0.133	ug/L	0.2597	194.73%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	14.9	0.263	ug/L	0.2141	0.263	ug/L	0.2141	81.47%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	30.6	0.673	ug/L	0.2258	0.673	ug/L	0.2258	33.54%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	902.2	66.64	ug/L	12.366	66.64	ug/L	12.366	18.56%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	4.8	0.072	ug/L	0.0833	0.072	ug/L	0.0833	115.73%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-3.9	-0.534	ug/L	1.4602	-0.534	ug/L	1.4602	273.63%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	2.5	0.163	ug/L	0.4292	0.163	ug/L	0.4292	263.68%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-0.1	-0.021	ug/L	0.3100	-0.021	ug/L	0.3100	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	0.0	0.001	ug/L	0.9382	0.001	ug/L	0.9382	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	10.8	1.360	ug/L	0.5239	1.360	ug/L	0.5239	38.52%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-11.9	-0.011	ug/L	0.1272	-0.011	ug/L	0.1272	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-4.0	-0.085	ug/L	0.5972	-0.085	ug/L	0.5972	703.45%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	7.3	1.068	ug/L	0.4565	1.068	ug/L	0.4565	42.73%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-107.2	-0.431	ug/L	0.1750	-0.431	ug/L	0.1750	40.59%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	5.0	0.055	ug/L	0.1368	0.055	ug/L	0.1368	248.85%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8 Autosampler Location: 12
Sample ID: ICSA 121127EA I:PB O:EA Date Collected: 11/27/12 4:14:13 PM
Analyst: Data Type: Reprocessed on 11/28/12 2:44:43 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: ICSA 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-43.5	-0.344	ug/L	0.1760	-0.344	ug/L	0.1760	51.21%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	355704.9	194000	ug/L	609.8	194000	ug/L	609.8	0.31%
QC value within limits for Al 308.215 Recovery = 97.00%								
As 188.979	-4.6	-0.858	ug/L	0.5108	-0.858	ug/L	0.5108	59.54%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2262.6	38.35	ug/L	5.729	38.35	ug/L	5.729	14.94%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	17749.0	0.148	ug/L	0.2176	0.148	ug/L	0.2176	146.68%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-525.2	-0.081	ug/L	0.0089	-0.081	ug/L	0.0089	11.02%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2616819.9	198000	ug/L	496.2	198000	ug/L	496.2	0.25%
QC value within limits for Ca 315.887 Recovery = 99.00%								
Cd 214.440	3535.2	0.031	ug/L	0.1131	0.031	ug/L	0.1131	366.65%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	334.2	-0.798	ug/L	0.2618	-0.798	ug/L	0.2618	32.79%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-88.9	-0.061	ug/L	0.2256	-0.061	ug/L	0.2256	372.32%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-62.2	-0.611	ug/L	0.0108	-0.611	ug/L	0.0108	1.77%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4961781.2	181000	ug/L	1525.2	181000	ug/L	1525.2	0.84%
QC value within limits for Fe 273.955 Recovery = 90.51%								
K 766.490	11.1	-111.3	ug/L	39.02	-111.3	ug/L	39.02	35.05%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3960883.4	191900	ug/L	636.0	191900	ug/L	636.0	0.33%
QC value within limits for Mg 285.213 Recovery = 95.93%								
Mn 257.610	-54.2	-0.037	ug/L	0.4600	-0.037	ug/L	0.4600	>999.9%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-636.0	-0.277	ug/L	0.3174	-0.277	ug/L	0.3174	114.54%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	609.4	-0.555	ug/L	8.9183	-0.555	ug/L	8.9183	>999.9%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	73.0	-0.573	ug/L	0.3576	-0.573	ug/L	0.3576	62.40%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-21.3	-2.904	ug/L	1.4836	-2.904	ug/L	1.4836	51.09%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-10.2	-0.657	ug/L	0.8370	-0.657	ug/L	0.8370	127.48%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-5.1	-0.767	ug/L	1.7189	-0.767	ug/L	1.7189	224.18%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-23.0	-4.534	ug/L	0.9451	-4.534	ug/L	0.9451	20.85%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-19.7	-2.467	ug/L	0.7695	-2.467	ug/L	0.7695	31.19%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2246.8	-0.055	ug/L	0.0379	-0.055	ug/L	0.0379	68.48%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	160.6	-0.031	ug/L	0.8236	-0.031	ug/L	0.8236	>999.9%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-6.8	-0.996	ug/L	1.5443	-0.996	ug/L	1.5443	155.09%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	10555.3	-0.049	ug/L	0.2958	-0.049	ug/L	0.2958	599.21%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	914.0	0.544	ug/L	0.1188	0.544	ug/L	0.1188	21.84%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 11/27/12 4:18:09 PM
Data Type: Reprocessed on 11/28/12 2:44:45 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	128584.9	1015	ug/L	13.9	1015	ug/L	13.9	1.37%
QC value within limits for Ag 338.289 Recovery = 101.52%								
Al 308.215	351079.7	191500	ug/L	1692.8	191500	ug/L	1692.8	0.88%
QC value within limits for Al 308.215 Recovery = 95.74%								
As 188.979	2402.9	445.9	ug/L	2.45	445.9	ug/L	2.45	0.55%
QC value within limits for As 188.979 Recovery = 89.18%								
B	-2225.8	51.29	ug/L	3.063	51.29	ug/L	3.063	5.97%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	98857.8	479.7	ug/L	1.90	479.7	ug/L	1.90	0.40%
QC value within limits for Ba 233.527 Recovery = 95.94%								
Be 313.107	3113016.0	480.8	ug/L	5.97	480.8	ug/L	5.97	1.24%
QC value within limits for Be 313.107 Recovery = 96.16%								
Ca 315.887	2625411.9	198600	ug/L	2016.5	198600	ug/L	2016.5	1.02%
QC value within limits for Ca 315.887 Recovery = 99.32%								
Cd 214.440	355490.3	928.7	ug/L	2.33	928.7	ug/L	2.33	0.25%
QC value within limits for Cd 214.440 Recovery = 92.87%								
Co 228.616	33607.0	469.0	ug/L	2.14	469.0	ug/L	2.14	0.46%
QC value within limits for Co 228.616 Recovery = 93.80%								
Cr 267.716	69777.6	476.5	ug/L	0.68	476.5	ug/L	0.68	0.14%
QC value within limits for Cr 267.716 Recovery = 95.30%								
Cu 327.393	50881.1	499.3	ug/L	4.83	499.3	ug/L	4.83	0.97%
QC value within limits for Cu 327.393 Recovery = 99.87%								
Fe 273.955	5001330.5	182400	ug/L	2176.1	182400	ug/L	2176.1	1.19%
QC value within limits for Fe 273.955 Recovery = 91.21%								
K 766.490	200.4	-33.97	ug/L	29.914	-33.97	ug/L	29.914	88.07%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	4171487.5	202000	ug/L	1886.9	202000	ug/L	1886.9	0.93%
QC value within limits for Mg 285.213 Recovery = 101.02%								
Mn 257.610	26354.0	465.6	ug/L	4.56	465.6	ug/L	4.56	0.98%
QC value within limits for Mn 257.610 Recovery = 93.12%								
Mo 202.031	20966.5	475.1	ug/L	0.95	475.1	ug/L	0.95	0.20%
QC value within limits for Mo 202.031 Recovery = 95.01%								
Na 589.592	390.0	-19.33	ug/L	4.674	-19.33	ug/L	4.674	24.18%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	62333.8	935.9	ug/L	3.68	935.9	ug/L	3.68	0.39%
QC value within limits for Ni 231.604 Recovery = 93.59%								
P 213.617	12.0	1.638	ug/L	1.6190	1.638	ug/L	1.6190	98.87%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	14865.1	956.7	ug/L	3.68	956.7	ug/L	3.68	0.38%
QC value within limits for Pb 220.353 Recovery = 95.67%								
Sb 206.836	3090.1	460.6	ug/L	1.05	460.6	ug/L	1.05	0.23%
QC value within limits for Sb 206.836 Recovery = 92.11%								
Se 196.026	2381.8	470.2	ug/L	0.24	470.2	ug/L	0.24	0.05%
QC value within limits for Se 196.026 Recovery = 94.04%								
Sn 189.927	-13.8	-1.735	ug/L	1.7555	-1.735	ug/L	1.7555	101.17%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2295.5	0.001	ug/L	0.1050	0.001	ug/L	0.1050	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	170.0	0.074	ug/L	0.9248	0.074	ug/L	0.9248	>999.9%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3267.4	478.8	ug/L	1.32	478.8	ug/L	1.32	0.28%
QC value within limits for Tl 190.801 Recovery = 95.75%								
V 292.402	128320.7	495.7	ug/L	0.32	495.7	ug/L	0.32	0.06%
QC value within limits for V 292.402 Recovery = 99.13%								
Zn 206.200	89108.6	938.3	ug/L	6.04	938.3	ug/L	6.04	0.64%
QC value within limits for Zn 206.200 Recovery = 93.83%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/27/12 4:22:06 PM
Data Type: Reprocessed on 11/28/12 2:44:46 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	63556.7	501.8	ug/L	5.06	501.8	ug/L	5.06	1.01%
QC value within limits for Ag 338.289 Recovery = 100.35%								
Al 308.215	36662.2	20000	ug/L	141.2	20000	ug/L	141.2	0.71%
QC value within limits for Al 308.215 Recovery = 100.02%								
As 188.979	5466.8	1015	ug/L	9.7	1015	ug/L	9.7	0.96%
QC value within limits for As 188.979 Recovery = 101.45%								
B	4196.3	1053	ug/L	9.2	1053	ug/L	9.2	0.87%
QC value within limits for B Recovery = 105.28%								
Ba 233.527	172336.3	1009	ug/L	5.4	1009	ug/L	5.4	0.53%
QC value within limits for Ba 233.527 Recovery = 100.87%								
Be 313.107	6724670.2	1039	ug/L	6.2	1039	ug/L	6.2	0.60%
QC value within limits for Be 313.107 Recovery = 103.86%								
Ca 315.887	668291.8	50560	ug/L	583.8	50560	ug/L	583.8	1.15%
QC value within limits for Ca 315.887 Recovery = 101.13%								
Cd 214.440	392116.6	1034	ug/L	6.1	1034	ug/L	6.1	0.59%
QC value within limits for Cd 214.440 Recovery = 103.42%								
Co 228.616	72584.2	1022	ug/L	5.7	1022	ug/L	5.7	0.56%
QC value within limits for Co 228.616 Recovery = 102.20%								
Cr 267.716	150088.9	1024	ug/L	5.2	1024	ug/L	5.2	0.50%
QC value within limits for Cr 267.716 Recovery = 102.35%								
Cu 327.393	101994.5	1001	ug/L	5.0	1001	ug/L	5.0	0.50%
QC value within limits for Cu 327.393 Recovery = 100.09%								
Fe 273.955	561150.4	20390	ug/L	117.3	20390	ug/L	117.3	0.58%
QC value within limits for Fe 273.955 Recovery = 101.95%								
K 766.490	46689.6	19700	ug/L	95.8	19700	ug/L	95.8	0.49%
QC value within limits for K 766.490 Recovery = 98.48%								
Mg 285.213	1054456.7	51040	ug/L	510.7	51040	ug/L	510.7	1.00%
QC value within limits for Mg 285.213 Recovery = 102.08%								
Mn 257.610	57404.4	1012	ug/L	7.0	1012	ug/L	7.0	0.69%
QC value within limits for Mn 257.610 Recovery = 101.17%								
Mo 202.031	47237.6	1040	ug/L	10.4	1040	ug/L	10.4	1.00%
QC value within limits for Mo 202.031 Recovery = 104.04%								
Na 589.592	340299.4	25120	ug/L	239.7	25120	ug/L	239.7	0.95%
QC value within limits for Na 589.592 Recovery = 100.49%								
Ni 231.604	69432.6	1043	ug/L	10.8	1043	ug/L	10.8	1.03%
QC value within limits for Ni 231.604 Recovery = 104.31%								
P 213.617	38029.2	5189	ug/L	60.0	5189	ug/L	60.0	1.16%
QC value within limits for P 213.617 Recovery = 103.79%								
Pb 220.353	15962.9	1027	ug/L	17.7	1027	ug/L	17.7	1.72%
QC value within limits for Pb 220.353 Recovery = 102.74%								
Sb 206.836	6723.3	1002	ug/L	16.9	1002	ug/L	16.9	1.68%
QC value within limits for Sb 206.836 Recovery = 100.21%								
Se 196.026	5188.8	1024	ug/L	9.2	1024	ug/L	9.2	0.89%
QC value within limits for Se 196.026 Recovery = 102.44%								
Sn 189.927	8149.9	1022	ug/L	5.5	1022	ug/L	5.5	0.53%
QC value within limits for Sn 189.927 Recovery = 102.22%								
Sr 421.552	1049864.9	1004	ug/L	9.8	1004	ug/L	9.8	0.98%
QC value within limits for Sr 421.552 Recovery = 100.40%								
Ti 337.279	47047.4	996.9	ug/L	8.02	996.9	ug/L	8.02	0.80%
QC value within limits for Ti 337.279 Recovery = 99.69%								
Tl 190.801	6846.2	1003	ug/L	17.1	1003	ug/L	17.1	1.70%
QC value within limits for Tl 190.801 Recovery = 100.32%								
V 292.402	246641.6	1034	ug/L	5.5	1034	ug/L	5.5	0.53%
QC value within limits for V 292.402 Recovery = 103.40%								
Zn 206.200	98316.7	1050	ug/L	8.5	1050	ug/L	8.5	0.81%
QC value within limits for Zn 206.200 Recovery = 105.01%								

All analyte(s) passed QC.

Sequence No.: 11 Autosampler Location: 1
Sample ID: CCB 121127EA I:PB O:EA Date Collected: 11/27/12 4:28:24 PM
Analyst: Data Type: Reprocessed on 11/28/12 2:44:47 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-11.7	-0.092	ug/L	0.3717	-0.092	ug/L	0.3717	402.41%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-7.8	-4.296	ug/L	1.3835	-4.296	ug/L	1.3835	32.20%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	6.0	1.113	ug/L	0.2775	1.113	ug/L	0.2775	24.93%
QC value within limits for As 188.979 Recovery = Not calculated								
B	26.7	6.307	ug/L	0.7823	6.307	ug/L	0.7823	12.40%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	20.9	0.122	ug/L	0.0660	0.122	ug/L	0.0660	54.26%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-79.1	-0.012	ug/L	0.0088	-0.012	ug/L	0.0088	71.98%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	34.5	2.606	ug/L	2.6988	2.606	ug/L	2.6988	103.57%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	11.3	0.030	ug/L	0.0222	0.030	ug/L	0.0222	74.77%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	25.9	0.366	ug/L	0.2061	0.366	ug/L	0.2061	56.32%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-4.6	-0.032	ug/L	0.0212	-0.032	ug/L	0.0212	65.76%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	9.6	0.094	ug/L	0.1248	0.094	ug/L	0.1248	132.31%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	75.0	2.782	ug/L	0.4063	2.782	ug/L	0.4063	14.61%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	53.9	22.75	ug/L	82.643	22.75	ug/L	82.643	363.23%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	34.6	1.679	ug/L	0.5047	1.679	ug/L	0.5047	30.07%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	10.3	0.181	ug/L	0.1788	0.181	ug/L	0.1788	98.55%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	6.0	0.132	ug/L	0.1898	0.132	ug/L	0.1898	143.87%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	149.2	11.02	ug/L	6.917	11.02	ug/L	6.917	62.78%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	1.0	0.014	ug/L	0.2227	0.014	ug/L	0.2227	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-0.7	-0.096	ug/L	0.3519	-0.096	ug/L	0.3519	367.94%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	0.1	0.005	ug/L	0.1760	0.005	ug/L	0.1760	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-2.6	-0.385	ug/L	0.5089	-0.385	ug/L	0.5089	132.06%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-13.9	-2.734	ug/L	0.4959	-2.734	ug/L	0.4959	18.14%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	1.0	0.125	ug/L	0.9746	0.125	ug/L	0.9746	778.67%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	62.8	0.060	ug/L	0.0433	0.060	ug/L	0.0433	71.99%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-4.6	-0.098	ug/L	0.2071	-0.098	ug/L	0.2071	210.57%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3.1	0.460	ug/L	0.3630	0.460	ug/L	0.3630	78.99%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-139.3	-0.572	ug/L	0.3837	-0.572	ug/L	0.3837	67.02%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-15.7	-0.166	ug/L	0.1042	-0.166	ug/L	0.1042	62.76%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 30
Sample ID: CCV1 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/27/12 6:14:22 PM
Data Type: Reprocessed on 11/28/12 2:45:06 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	63645.6	502.5	ug/L	5.32	502.5	ug/L	5.32	1.06%
QC value within limits for Ag 338.289 Recovery = 100.49%								
Al 308.215	36827.1	20090	ug/L	38.1	20090	ug/L	38.1	0.19%
QC value within limits for Al 308.215 Recovery = 100.47%								
As 188.979	5524.7	1025	ug/L	8.8	1025	ug/L	8.8	0.86%
QC value within limits for As 188.979 Recovery = 102.53%								
B	4205.8	1055	ug/L	14.3	1055	ug/L	14.3	1.35%
QC value within limits for B Recovery = 105.51%								
Ba 233.527	172366.5	1009	ug/L	8.9	1009	ug/L	8.9	0.88%
QC value within limits for Ba 233.527 Recovery = 100.89%								
Be 313.107	6692151.4	1034	ug/L	9.0	1034	ug/L	9.0	0.87%
QC value within limits for Be 313.107 Recovery = 103.36%								
Ca 315.887	670056.4	50700	ug/L	272.8	50700	ug/L	272.8	0.54%
QC value within limits for Ca 315.887 Recovery = 101.39%								
Cd 214.440	393813.1	1039	ug/L	9.2	1039	ug/L	9.2	0.89%
QC value within limits for Cd 214.440 Recovery = 103.86%								
Co 228.616	72731.6	1024	ug/L	8.3	1024	ug/L	8.3	0.81%
QC value within limits for Co 228.616 Recovery = 102.41%								
Cr 267.716	150474.6	1026	ug/L	9.6	1026	ug/L	9.6	0.93%
QC value within limits for Cr 267.716 Recovery = 102.62%								
Cu 327.393	101861.2	999.6	ug/L	8.19	999.6	ug/L	8.19	0.82%
QC value within limits for Cu 327.393 Recovery = 99.96%								
Fe 273.955	561668.3	20410	ug/L	169.1	20410	ug/L	169.1	0.83%
QC value within limits for Fe 273.955 Recovery = 102.04%								
K 766.490	46870.6	19770	ug/L	14.0	19770	ug/L	14.0	0.07%
QC value within limits for K 766.490 Recovery = 98.86%								
Mg 285.213	1057796.2	51200	ug/L	210.8	51200	ug/L	210.8	0.41%
QC value within limits for Mg 285.213 Recovery = 102.41%								
Mn 257.610	57830.9	1019	ug/L	3.9	1019	ug/L	3.9	0.38%
QC value within limits for Mn 257.610 Recovery = 101.92%								
Mo 202.031	47231.2	1040	ug/L	5.2	1040	ug/L	5.2	0.50%
QC value within limits for Mo 202.031 Recovery = 104.03%								
Na 589.592	339990.3	25100	ug/L	124.1	25100	ug/L	124.1	0.49%
QC value within limits for Na 589.592 Recovery = 100.40%								
Ni 231.604	68740.1	1033	ug/L	6.2	1033	ug/L	6.2	0.60%
QC value within limits for Ni 231.604 Recovery = 103.26%								
P 213.617	38092.6	5198	ug/L	68.8	5198	ug/L	68.8	1.32%
QC value within limits for P 213.617 Recovery = 103.96%								
Pb 220.353	16166.4	1040	ug/L	8.5	1040	ug/L	8.5	0.81%
QC value within limits for Pb 220.353 Recovery = 104.05%								
Sb 206.836	6686.4	996.6	ug/L	6.08	996.6	ug/L	6.08	0.61%
QC value within limits for Sb 206.836 Recovery = 99.66%								
Se 196.026	5184.9	1024	ug/L	13.1	1024	ug/L	13.1	1.28%
QC value within limits for Se 196.026 Recovery = 102.36%								
Sn 189.927	8398.9	1053	ug/L	8.5	1053	ug/L	8.5	0.81%
QC value within limits for Sn 189.927 Recovery = 105.34%								
Sr 421.552	1044527.1	998.9	ug/L	5.28	998.9	ug/L	5.28	0.53%
QC value within limits for Sr 421.552 Recovery = 99.89%								
Ti 337.279	47057.7	997.1	ug/L	1.17	997.1	ug/L	1.17	0.12%
QC value within limits for Ti 337.279 Recovery = 99.71%								
Tl 190.801	6899.2	1011	ug/L	11.0	1011	ug/L	11.0	1.09%
QC value within limits for Tl 190.801 Recovery = 101.09%								
V 292.402	247176.2	1036	ug/L	8.2	1036	ug/L	8.2	0.80%
QC value within limits for V 292.402 Recovery = 103.62%								
Zn 206.200	98866.7	1056	ug/L	6.7	1056	ug/L	6.7	0.63%
QC value within limits for Zn 206.200 Recovery = 105.59%								

All analyte(s) passed QC.

Sequence No.: 31 Autosampler Location: 1
Sample ID: CCB 121127EA I:PB O:EA Date Collected: 11/27/12 6:17:31 PM
Analyst: Data Type: Reprocessed on 11/28/12 2:45:07 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	29.1	0.230	ug/L	0.7664	0.230	ug/L	0.7664	333.03%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-9.7	-5.319	ug/L	7.1077	-5.319	ug/L	7.1077	133.62%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.4	0.819	ug/L	0.4318	0.819	ug/L	0.4318	52.72%
QC value within limits for As 188.979 Recovery = Not calculated								
B	60.4	14.26	ug/L	2.885	14.26	ug/L	2.885	20.23%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	43.2	0.254	ug/L	0.0380	0.254	ug/L	0.0380	14.97%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-381.6	-0.059	ug/L	0.0087	-0.059	ug/L	0.0087	14.80%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	143.9	10.88	ug/L	1.172	10.88	ug/L	1.172	10.77%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	26.1	0.069	ug/L	0.0433	0.069	ug/L	0.0433	62.87%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	10.9	0.154	ug/L	0.1093	0.154	ug/L	0.1093	70.73%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	0.8	0.004	ug/L	0.0270	0.004	ug/L	0.0270	648.87%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-41.5	-0.407	ug/L	0.1549	-0.407	ug/L	0.1549	38.05%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	22.6	0.878	ug/L	0.8322	0.878	ug/L	0.8322	94.74%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	111.0	46.89	ug/L	31.306	46.89	ug/L	31.306	66.76%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	20.0	0.968	ug/L	0.5916	0.968	ug/L	0.5916	61.12%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	9.8	0.173	ug/L	0.1603	0.173	ug/L	0.1603	92.60%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	18.8	0.413	ug/L	0.0636	0.413	ug/L	0.0636	15.38%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	404.3	29.85	ug/L	5.715	29.85	ug/L	5.715	19.15%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-16.5	-0.249	ug/L	0.2932	-0.249	ug/L	0.2932	117.86%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-14.3	-1.951	ug/L	0.3819	-1.951	ug/L	0.3819	19.57%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	17.6	1.135	ug/L	0.1756	1.135	ug/L	0.1756	15.47%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-1.6	-0.239	ug/L	0.6577	-0.239	ug/L	0.6577	274.75%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-5.8	-1.135	ug/L	1.5652	-1.135	ug/L	1.5652	137.86%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	7.4	0.925	ug/L	0.7828	0.925	ug/L	0.7828	84.61%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-28.3	-0.027	ug/L	0.0597	-0.027	ug/L	0.0597	220.43%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	3.9	0.081	ug/L	0.3487	0.081	ug/L	0.3487	427.84%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	4.6	0.675	ug/L	0.3007	0.675	ug/L	0.3007	44.54%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-170.3	-0.695	ug/L	0.2337	-0.695	ug/L	0.2337	33.61%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-12.6	-0.132	ug/L	0.0614	-0.132	ug/L	0.0614	46.34%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 42
Sample ID: CCV2 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 11/27/12 7:16:39 PM
Data Type: Reprocessed on 11/28/12 2:45:18 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	49138.8	387.9	ug/L	2.81	387.9	ug/L	2.81	0.72%
QC value within limits for Ag 338.289 Recovery = 103.45%								
Al 308.215	29237.3	15950	ug/L	143.2	15950	ug/L	143.2	0.90%
QC value within limits for Al 308.215 Recovery = 106.35%								
As 188.979	4309.8	799.8	ug/L	1.95	799.8	ug/L	1.95	0.24%
QC value within limits for As 188.979 Recovery = 106.64%								
B	3321.8	831.6	ug/L	18.32	831.6	ug/L	18.32	2.20%
QC value greater than the upper limit for B Recovery = 110.87%								
Ba 233.527	132721.7	776.9	ug/L	3.55	776.9	ug/L	3.55	0.46%
QC value within limits for Ba 233.527 Recovery = 103.59%								
Be 313.107	5224951.2	807.0	ug/L	2.98	807.0	ug/L	2.98	0.37%
QC value within limits for Be 313.107 Recovery = 107.59%								
Ca 315.887	533785.1	40390	ug/L	284.9	40390	ug/L	284.9	0.71%
QC value within limits for Ca 315.887 Recovery = 107.70%								
Cd 214.440	302577.4	798.0	ug/L	1.93	798.0	ug/L	1.93	0.24%
QC value within limits for Cd 214.440 Recovery = 106.40%								
Co 228.616	56297.5	792.6	ug/L	3.61	792.6	ug/L	3.61	0.46%
QC value within limits for Co 228.616 Recovery = 105.68%								
Cr 267.716	115925.7	790.5	ug/L	1.01	790.5	ug/L	1.01	0.13%
QC value within limits for Cr 267.716 Recovery = 105.40%								
Cu 327.393	78705.8	772.4	ug/L	3.58	772.4	ug/L	3.58	0.46%
QC value within limits for Cu 327.393 Recovery = 102.99%								
Fe 273.955	429044.9	15590	ug/L	51.8	15590	ug/L	51.8	0.33%
QC value within limits for Fe 273.955 Recovery = 103.93%								
K 766.490	36654.2	15460	ug/L	135.6	15460	ug/L	135.6	0.88%
QC value within limits for K 766.490 Recovery = 103.09%								
Mg 285.213	847722.2	41030	ug/L	264.2	41030	ug/L	264.2	0.64%
QC value within limits for Mg 285.213 Recovery = 109.42%								
Mn 257.610	46276.4	815.5	ug/L	8.91	815.5	ug/L	8.91	1.09%
QC value within limits for Mn 257.610 Recovery = 108.74%								
Mo 202.031	35761.1	787.7	ug/L	4.17	787.7	ug/L	4.17	0.53%
QC value within limits for Mo 202.031 Recovery = 105.02%								
Na 589.592	270048.0	19940	ug/L	95.5	19940	ug/L	95.5	0.48%
QC value within limits for Na 589.592 Recovery = 106.33%								
Ni 231.604	52972.0	795.7	ug/L	2.41	795.7	ug/L	2.41	0.30%
QC value within limits for Ni 231.604 Recovery = 106.10%								
P 213.617	29131.8	3975	ug/L	39.0	3975	ug/L	39.0	0.98%
QC value within limits for P 213.617 Recovery = 106.01%								
Pb 220.353	12607.1	811.4	ug/L	1.23	811.4	ug/L	1.23	0.15%
QC value within limits for Pb 220.353 Recovery = 108.18%								
Sb 206.836	5274.0	786.1	ug/L	0.83	786.1	ug/L	0.83	0.11%
QC value within limits for Sb 206.836 Recovery = 104.81%								
Se 196.026	4073.7	804.2	ug/L	2.22	804.2	ug/L	2.22	0.28%
QC value within limits for Se 196.026 Recovery = 107.23%								
Sn 189.927	6581.4	825.5	ug/L	2.52	825.5	ug/L	2.52	0.30%
QC value within limits for Sn 189.927 Recovery = 110.06%								
Sr 421.552	827660.1	791.5	ug/L	4.09	791.5	ug/L	4.09	0.52%
QC value within limits for Sr 421.552 Recovery = 105.53%								
Ti 337.279	37129.4	786.7	ug/L	12.74	786.7	ug/L	12.74	1.62%
QC value within limits for Ti 337.279 Recovery = 104.89%								
Tl 190.801	5388.1	789.5	ug/L	1.99	789.5	ug/L	1.99	0.25%
QC value within limits for Tl 190.801 Recovery = 105.27%								
V 292.402	190276.4	797.5	ug/L	2.08	797.5	ug/L	2.08	0.26%
QC value within limits for V 292.402 Recovery = 106.33%								
Zn 206.200	75901.9	810.7	ug/L	4.44	810.7	ug/L	4.44	0.55%
QC value within limits for Zn 206.200 Recovery = 108.10%								

QC Failed. Continue with analysis.

Sequence No.: 43 Autosampler Location: 2
Sample ID: CCB 121127EA I:PB O:EA Date Collected: 11/27/12 7:23:26 PM
Analyst: Data Type: Reprocessed on 11/28/12 2:45:19 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	20.5	0.162	ug/L	0.6911	0.162	ug/L	0.6911	427.01%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-4.6	-2.511	ug/L	5.9886	-2.511	ug/L	5.9886	238.52%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.2	0.783	ug/L	0.8627	0.783	ug/L	0.8627	110.20%
QC value within limits for As 188.979 Recovery = Not calculated								
B	15.3	3.600	ug/L	0.1746	3.600	ug/L	0.1746	4.85%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	19.6	0.115	ug/L	0.1001	0.115	ug/L	0.1001	87.17%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-208.6	-0.032	ug/L	0.0093	-0.032	ug/L	0.0093	28.97%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	1281.2	96.95	ug/L	22.925	96.95	ug/L	22.925	23.65%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	30.6	0.080	ug/L	0.0188	0.080	ug/L	0.0188	23.41%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	1.6	0.023	ug/L	0.3212	0.023	ug/L	0.3212	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-21.3	-0.146	ug/L	0.1017	-0.146	ug/L	0.1017	69.51%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-18.2	-0.179	ug/L	0.1156	-0.179	ug/L	0.1156	64.64%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	8.6	0.352	ug/L	0.7401	0.352	ug/L	0.7401	210.52%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	187.7	79.23	ug/L	54.350	79.23	ug/L	54.350	68.60%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	96.7	4.672	ug/L	4.9566	4.672	ug/L	4.9566	106.08%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-2.2	-0.039	ug/L	0.1842	-0.039	ug/L	0.1842	469.99%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-7.4	-0.162	ug/L	0.0891	-0.162	ug/L	0.0891	54.84%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	1496.2	110.5	ug/L	11.77	110.5	ug/L	11.77	10.65%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-22.4	-0.338	ug/L	0.3973	-0.338	ug/L	0.3973	117.44%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	592.4	80.83	ug/L	42.520	80.83	ug/L	42.520	52.60%
QC value greater than the upper limit for P 213.617 Recovery = Not calculated								
Pb 220.353	0.7	0.045	ug/L	0.3274	0.045	ug/L	0.3274	731.74%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-3.7	-0.554	ug/L	0.9878	-0.554	ug/L	0.9878	178.38%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-6.5	-1.274	ug/L	2.2591	-1.274	ug/L	2.2591	177.35%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-6.7	-0.838	ug/L	0.8944	-0.838	ug/L	0.8944	106.69%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-112.4	-0.108	ug/L	0.0428	-0.108	ug/L	0.0428	39.59%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-23.3	-0.494	ug/L	0.5217	-0.494	ug/L	0.5217	105.64%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	9.3	1.369	ug/L	0.9864	1.369	ug/L	0.9864	72.05%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-136.5	-0.565	ug/L	0.3592	-0.565	ug/L	0.3592	63.52%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-12.1	-0.127	ug/L	0.0467	-0.127	ug/L	0.0467	36.72%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/27/12	11/27/12	#6010B-121127A-AY72103
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/13/12	11/13/12	#6010B-121113A-AY71560

Metals SC-Blank-REG MDLs
Printed: 11/29/12 9:32:12 AM

Sequence No.: 108
Sample ID: 121113A-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 114
Date Collected: 11/13/12 7:51:59 PM
Data Type: Reprocessed on 11/14/12 11:09:05 AM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121113A-3050-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	224.4	1.785	ug/L	0.6233	0.071	mg/kg	0.0249	34.91%
Al 308.215	0.2	0.052	ug/L	9.7996	0.002	mg/kg	0.3920	>999.9%
As 188.979	3.4	0.716	ug/L	0.8377	0.029	mg/kg	0.0335	116.98%
B	28.0	6.587	ug/L	0.8606	0.263	mg/kg	0.0344	13.07%
Ba 233.527	61.8	0.384	ug/L	0.1484	0.015	mg/kg	0.0059	38.61%
Be 313.107	-971.1	-0.162	ug/L	0.0068	-0.006	mg/kg	0.0003	4.17%
Ca 315.887	351.0	30.05	ug/L	2.919	1.202	mg/kg	0.1167	9.71%
Cd 214.440	108.5	0.340	ug/L	0.0295	0.014	mg/kg	0.0012	8.66%
Co 228.616	40.3	0.608	ug/L	0.1677	0.024	mg/kg	0.0067	27.56%
Cr 267.716	53.1	0.400	ug/L	0.2404	0.016	mg/kg	0.0096	60.14%
Cu 327.393	103.7	0.989	ug/L	0.6711	0.040	mg/kg	0.0268	67.86%
Fe 273.955	-0.7	0.020	ug/L	0.6016	0.001	mg/kg	0.0241	>999.9%
K 766.490	196.5	96.00	ug/L	19.065	3.840	mg/kg	0.7626	19.86%
Mg 285.213	40.4	2.053	ug/L	0.1710	0.082	mg/kg	0.0068	8.33%
Mn 257.610	-6.3	-0.113	ug/L	0.1794	-0.005	mg/kg	0.0072	158.51%
Mo 202.031	25.3	0.637	ug/L	0.1582	0.025	mg/kg	0.0063	24.82%
Na 589.592	4144.5	300.5	ug/L	26.67	12.02	mg/kg	1.067	8.87%
Ni 231.604	-89.6	-1.473	ug/L	0.3745	-0.059	mg/kg	0.0150	25.43%
P 213.617	130.0	20.23	ug/L	0.601	0.809	mg/kg	0.0240	2.97%
Pb 220.353	-32.4	-2.278	ug/L	0.5358	-0.091	mg/kg	0.0214	23.53%
Sb 206.836	-11.9	-2.166	ug/L	0.9393	-0.087	mg/kg	0.0376	43.36%
Se 196.026	5.7	1.079	ug/L	2.1239	0.043	mg/kg	0.0850	196.80%
Sn 189.927	-35.0	-5.011	ug/L	0.7182	-0.200	mg/kg	0.0287	14.33%
Sr 421.552	112.2	0.106	ug/L	0.1372	0.004	mg/kg	0.0055	129.44%
Ti 337.279	28.6	0.692	ug/L	0.3355	0.028	mg/kg	0.0134	48.48%
Tl 190.801	-6.5	-1.047	ug/L	0.5334	-0.042	mg/kg	0.0213	50.93%
V 292.402	-145.5	-0.619	ug/L	0.0273	-0.025	mg/kg	0.0011	4.42%
Zn 206.200	284.7	3.355	ug/L	0.1408	0.134	mg/kg	0.0056	4.20%

Sequence No.: 32
Sample ID: 121127A-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 89
Date Collected: 11/27/12 6:21:54 PM
Data Type: Reprocessed on 11/28/12 2:45:08 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121127A-3050-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	236.9	1.870	ug/L	1.2602	0.075	mg/kg	0.0504	67.39%
Al 308.215	-29.4	-16.15	ug/L	6.250	-0.646	mg/kg	0.2500	38.71%
As 188.979	2.5	0.456	ug/L	1.1894	0.018	mg/kg	0.0476	261.08%
B	55.8	13.18	ug/L	0.326	0.527	mg/kg	0.0131	2.48%
Ba 233.527	27.1	0.159	ug/L	0.0405	0.006	mg/kg	0.0016	25.47%
Be 313.107	-448.3	-0.069	ug/L	0.0234	-0.003	mg/kg	0.0009	33.74%
Ca 315.887	313.3	23.70	ug/L	0.558	0.948	mg/kg	0.0223	2.36%
Cd 214.440	164.2	0.435	ug/L	0.0134	0.017	mg/kg	0.0005	3.09%
Co 228.616	7.6	0.111	ug/L	0.2332	0.004	mg/kg	0.0093	210.81%
Cr 267.716	98.4	0.669	ug/L	0.0718	0.027	mg/kg	0.0029	10.74%
Cu 327.393	432.0	4.239	ug/L	0.5417	0.170	mg/kg	0.0217	12.78%
Fe 273.955	-15.9	-0.512	ug/L	0.6510	-0.020	mg/kg	0.0260	127.06%
K 766.490	0.5	0.216	ug/L	32.7729	0.009	mg/kg	1.3109	>999.9%
Mg 285.213	34.7	1.676	ug/L	0.2698	0.067	mg/kg	0.0108	16.10%
Mn 257.610	1.9	0.033	ug/L	0.0782	0.001	mg/kg	0.0031	234.17%
Mo 202.031	81.8	1.797	ug/L	0.4958	0.072	mg/kg	0.0198	27.60%
Na 589.592	610.1	45.07	ug/L	7.935	1.803	mg/kg	0.3174	17.61%
Ni 231.604	-114.2	-1.719	ug/L	0.3197	-0.069	mg/kg	0.0128	18.60%
P 213.617	104.2	14.22	ug/L	0.326	0.569	mg/kg	0.0130	2.29%
Pb 220.353	-57.7	-3.716	ug/L	0.5655	-0.149	mg/kg	0.0226	15.22%
Sb 206.836	-0.8	-0.114	ug/L	0.6531	-0.005	mg/kg	0.0261	572.64%
Se 196.026	-17.9	-3.524	ug/L	1.0397	-0.141	mg/kg	0.0416	29.50%
Sn 189.927	10.6	1.324	ug/L	0.8366	0.053	mg/kg	0.0335	63.20%
Sr 421.552	-39.5	-0.038	ug/L	0.0528	-0.002	mg/kg	0.0021	138.98%
Ti 337.279	24.6	0.522	ug/L	0.1281	0.021	mg/kg	0.0051	24.54%
Tl 190.801	-12.1	-1.776	ug/L	0.2890	-0.071	mg/kg	0.0116	16.27%
V 292.402	-211.2	-0.838	ug/L	0.2932	-0.034	mg/kg	0.0117	35.00%
Zn 206.200	53.0	0.568	ug/L	0.1460	0.023	mg/kg	0.0058	25.70%

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.0	10.5	105	80-120	11/13/12	11/13/12	#6010B-121113A-AY71560

Comments: _____

Sequence No.: 109
Sample ID: 121113A-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 115
Date Collected: 11/13/12 7:56:24 PM
Data Type: Reprocessed on 11/14/12 11:09:06 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121113A-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	10776.9	85.72	ug/L	0.506	3.429	mg/kg	0.0202	0.59%
Al 308.215	3236.6	1897	ug/L	16.7	75.88	mg/kg	0.670	0.88%
As 188.979	1162.1	243.6	ug/L	1.03	9.745	mg/kg	0.0412	0.42%
B	979.5	232.6	ug/L	2.08	9.302	mg/kg	0.0832	0.89%
Ba 233.527	40032.7	249.5	ug/L	1.23	9.979	mg/kg	0.0492	0.49%
Be 313.107	303307.9	50.73	ug/L	0.629	2.029	mg/kg	0.0252	1.24%
Ca 315.887	280889.0	24060	ug/L	302.6	962.4	mg/kg	12.10	1.26%
Cd 214.440	16608.8	52.04	ug/L	0.070	2.082	mg/kg	0.0028	0.13%
Co 228.616	17843.2	269.1	ug/L	0.17	10.76	mg/kg	0.007	0.06%
Cr 267.716	35641.6	269.5	ug/L	0.80	10.78	mg/kg	0.032	0.30%
Cu 327.393	25887.4	246.8	ug/L	2.94	9.872	mg/kg	0.1178	1.19%
Fe 273.955	26938.9	1029	ug/L	2.6	41.18	mg/kg	0.102	0.25%
K 766.490	10375.9	5064	ug/L	94.5	202.6	mg/kg	3.78	1.87%
Mg 285.213	441124.5	22510	ug/L	168.1	900.4	mg/kg	6.72	0.75%
Mn 257.610	13964.0	248.9	ug/L	1.23	9.956	mg/kg	0.0491	0.49%
Mo 202.031	11031.4	278.2	ug/L	0.41	11.13	mg/kg	0.016	0.15%
Na 589.592	341843.3	24790	ug/L	130.2	991.4	mg/kg	5.21	0.53%
Ni 231.604	16245.2	266.2	ug/L	0.64	10.65	mg/kg	0.026	0.24%
P 213.617	12860.6	2001	ug/L	6.3	80.06	mg/kg	0.251	0.31%
Pb 220.353	3731.2	262.6	ug/L	1.97	10.51	mg/kg	0.079	0.75%
Sb 206.836	1354.1	246.7	ug/L	0.98	9.866	mg/kg	0.0392	0.40%
Se 196.026	1227.7	233.3	ug/L	3.06	9.331	mg/kg	0.1223	1.31%
Sn 189.927	2044.8	292.4	ug/L	0.52	11.70	mg/kg	0.021	0.18%
Sr 421.552	259200.9	245.8	ug/L	1.41	9.830	mg/kg	0.0566	0.58%
Ti 337.279	10227.0	247.2	ug/L	1.31	9.886	mg/kg	0.0524	0.53%
Tl 190.801	1499.1	240.6	ug/L	1.58	9.622	mg/kg	0.0633	0.66%
V 292.402	61013.9	270.0	ug/L	1.60	10.80	mg/kg	0.064	0.59%
Zn 206.200	44674.0	528.3	ug/L	2.79	21.13	mg/kg	0.112	0.53%

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.4	104	80-120	11/27/12	11/27/12	#6010B-121127A-AY72103

Comments: _____

Sequence No.: 33
Sample ID: 121127A-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 90
Date Collected: 11/27/12 6:26:16 PM
Data Type: Reprocessed on 11/28/12 2:45:09 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121127A-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	12520.6	98.85	ug/L	1.227	3.954	mg/kg	0.0491	1.24%
Al 308.215	3454.2	1886	ug/L	15.0	75.45	mg/kg	0.600	0.79%
As 188.979	1296.8	240.7	ug/L	1.12	9.626	mg/kg	0.0446	0.46%
B	1060.8	252.3	ug/L	3.31	10.09	mg/kg	0.133	1.31%
Ba 233.527	42116.4	248.8	ug/L	3.55	9.952	mg/kg	0.1421	1.43%
Be 313.107	324621.8	50.14	ug/L	0.607	2.005	mg/kg	0.0243	1.21%
Ca 315.887	323412.5	24470	ug/L	374.0	978.9	mg/kg	14.96	1.53%
Cd 214.440	19508.2	51.58	ug/L	0.172	2.063	mg/kg	0.0069	0.33%
Co 228.616	18602.1	262.0	ug/L	1.00	10.48	mg/kg	0.040	0.38%
Cr 267.716	38691.5	263.7	ug/L	3.03	10.55	mg/kg	0.121	1.15%
Cu 327.393	25509.9	250.3	ug/L	4.25	10.01	mg/kg	0.170	1.70%
Fe 273.955	27948.5	997.1	ug/L	11.76	39.88	mg/kg	0.470	1.18%
K 766.490	10914.4	4606	ug/L	90.0	184.2	mg/kg	3.60	1.95%
Mg 285.213	500927.2	24240	ug/L	312.1	969.5	mg/kg	12.48	1.29%
Mn 257.610	14640.2	257.3	ug/L	1.15	10.29	mg/kg	0.046	0.45%
Mo 202.031	12174.7	267.8	ug/L	1.28	10.71	mg/kg	0.051	0.48%
Na 589.592	326121.8	24090	ug/L	326.7	963.6	mg/kg	13.07	1.36%
Ni 231.604	17423.1	261.7	ug/L	1.10	10.47	mg/kg	0.044	0.42%
P 213.617	14143.0	1930	ug/L	5.4	77.20	mg/kg	0.217	0.28%
Pb 220.353	4057.0	261.1	ug/L	1.98	10.44	mg/kg	0.079	0.76%
Sb 206.836	1558.7	232.3	ug/L	2.17	9.293	mg/kg	0.0869	0.94%
Se 196.026	1117.6	220.6	ug/L	2.01	8.826	mg/kg	0.0802	0.91%
Sn 189.927	2199.9	275.9	ug/L	1.93	11.04	mg/kg	0.077	0.70%
Sr 421.552	252858.6	241.7	ug/L	3.31	9.670	mg/kg	0.1324	1.37%
Ti 337.279	11644.1	246.6	ug/L	0.64	9.862	mg/kg	0.0257	0.26%
Tl 190.801	1697.3	248.7	ug/L	1.65	9.948	mg/kg	0.0659	0.66%
V 292.402	63410.2	266.8	ug/L	3.27	10.67	mg/kg	0.131	1.23%
Zn 206.200	48436.6	515.5	ug/L	6.34	20.62	mg/kg	0.254	1.23%

Metals Standards Log Book # 36 Page # 037

BC 11/13/12

6020/6020A

(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A

Today's Date: 11/13/12
Expires: 11/20/12
Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL Di Water
Lot #L12065
20 mL HCL / 2000mL Di Water
Lot #51358
Expires: 11/20/12

Internal Standard Mix: Prep 11/09/2012

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1.0% HCL 11/13/12

Standard 3 11/20/12

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	ABS STDS	012512-30926
25 uL	CCV-B	ABS STDS	021312-30928
25 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1.0% HCL 11/13/12

Intermediate-Sb 11/20/12
100 uL of Sb STD (CPI 12A011-30298) in 10 mL of 1% HNO3/1.0% HCL
ICV-Sb 11/20/12
100 uL of Intermediate-Sb in 10 mL of 1% HNO3/1.0% HCL

BC 11/13/12

Standard 2 11/20/12

Amount	STD	
500 uL	Standard 4	11/13/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/13/12

Standard 1 11/20/12

Amount	STD	
50 uL	Standard 4	11/13/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/13/12

ICP-MS ICV 11/20/12

Amount	STD		
50 uL	QCS ICV A	CPI	11C184-30611
50 uL	QCS ICV B	CPI	11C184-30612

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/13/12

ICSA Prep: 11/20/12

1 mL	ICSA	CPI	12I082-31307

Prepared in 5 mL of 1% HNO3/1.0% HCL 11/13/12

ICSAB Prep: 11/20/12

1mL	ICSA	CPI	12I082-31307
0.025mL	INT	O2Si	1032370-30265

Prepared in 5 mL of 1% HNO3/1.0% HCL 11/13/12

ICP-LDR 11/20/12

Amount	STD		
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 10 mL of 1% HNO3/1.0% HCL 11/13/12

EA 11-13-12

6010B-C

(A)

1%HNO3 / 5%HCl BLK

AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	EMD	UN1789-265	10/22/12
20 mL	HNO3	JT BAKER	L10023-266	10/24/12

Prepared in 2000 ml DI Water

STD 1 / LDL 6010B/6010C

AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.5 mL	6010 LDL	O2SI	1039165-31300	10/01/13

Prepared in 50 ml 1%HNO3/5%HCl

STD 3 / HDL 6010B/6010C

1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15

Prepared in 100 ml 1%HNO3 / 5%HCl

STD 2 / CCV1 6010B/6010C/6010C

AMOUNT	STD	PREP DATE	EXP DATE
25mL	STD 3	Today	1 week
25mL	1%HNO3/5%HCl	Today	1 week

CCV2 6010B/6010C

AMOUNT	STD	PREP DATE	EXP DATE
15mL	STD 3	Today	1 week
25mL	1%HNO3/5%HCl	Today	1 week

6010B/6010C ICSA

AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13

Prepared in 50 ml 1%HNO3/5%HCl

6010B/6010C ICSAB

1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13

Prepared in 50 ml 1%HNO3/5%HCl

6010B/6010C ICV

0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13

Prepared in 50ml 1%HNO3/5%HCl

EA 11-13-12

7471/245.1
200-26307
2065

065
065

LO 11/14/12

Hg working Stnds.

Hg WORKING STANDARD 7470A/7471/245.1

1ml X 10ug/ml Hg STOCK STD. (11/13/12LO)/200ml 1% HNO3 Lot#L12065
1ml X 10ug/ml Hg STOCK ICV (11/13/12LO)/200ml 1% HNO3 Lot#L12065
Final concentration is 50 ug/L. Expires... 11/14/12.....

LO 11/14/12

Metals Standards Log Book # 36 Page # 045

SA 11-27-12

~~6010B-C~~

(A) SA 11-27-12

200.7

11/26/12

11/26/12

11/26/12

11/26/12

184-30611
184-30612
11/26/12

21082-31307
11/26/12

21082-31307
2370-30265
11/26/12

512-30926
312-30928
512-30927
11/26/12

SA 11-27-12

6010B-C

(A)

ires
09/28/13
02/23/14
02/23/14
02/23/14
02/25/14
02/08/13

mL

2%HNO3 / 2%HCl BLK					200.7 ICV				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
40 mL	HCL	BDH	UN1789-265	10/22/12	0.25ML	QCS ICV A	CPI	12C184-30611	09/20/13
40 mL	HNO3	JT BAKER	L10023-266	10/24/12	0.25ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 2000 ml DI Water					Prepared in 50ml 2%HNO3/2%HCl				
STD 1 / LDL 200.7					200.7 ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	0 5mL	Al	CPI	11J015-30092	05/28/13
0 250 mL	200.7 LDL	O2SI	1040652-31584	11/01/13	0.5mL	Ca	CPI	11J031-29989	05/14/13
Prepared in 50 ml 2%HNO3/2%HCl					0.5mL	Mg	CPI	11K178-30093	05/28/13
STD 3 / HDL 200.7					0.5mL	Fe	O2SI	1030787-30616	05/17/13
0 5 mL	CCV-A	ABSOLUTE	012512-30926	01/25/15	Prepared in 50 ml 2%HNO3/2%HCl				
0 5 mL	CCV-B	ABSOLUTE	021312-30928	02/13/15	200.7 ICSAB				
0.5 mL	CCV-C	ABSOLUTE	012512-30927	01/25/15	0.5mL	Al	CPI	11J015-30092	05/28/13
Prepared in 100 ml 2%HNO3/2%HCl					0.5mL	Ca	CPI	11J031-29989	05/14/13
STD 2 / CCV1 200.7					0.5mL	Mg	CPI	11K178-30093	05/28/13
AMOUNT	STD	PREP DATE	EXP DATE		0.5mL	Fe	O2SI	1030787-30616	05/17/13
25mL	STD 3	TODAY	1 WEEK		0 25mL	INT SPECIAL MIX	O2SI	1032370-30265	2/1/13
25mL	2%HNO3/2%HCl	TODAY	1 WEEK		Prepared in 50 ml 2%HNO3/2%HCl				
CCV2 200.7									
15mL	STD 3	TODAY	1 WEEK						
25mL	%HNO3/2%HC	TODAY	1 WEEK						

SA 11-27-12

1%HNO3 / 5%HCl BLK					6010B/6010C ICSA				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
100 mL	HCL	EMD	UN1789-265	10/22/12	1mL	Al	CPI	11J015-30092	05/28/13
20 mL	HNO3	JT BAKER	L10023-266	10/24/12	1mL	Ca	CPI	11J031-29989	05/14/13
Prepared in 2000 ml DI Water					1mL	Mg	CPI	11K178-30093	05/28/13
STD 1 / LDL 6010B/6010C					1mL	Fe	O2SI	1030787-30616	05/17/13
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	Prepared in 50 ml 1%HNO3/5%HCl				
0.5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13	6010B/6010C ICSAB				
Prepared in 50 ml 1%HNO3/5%HCl					1mL	Al	CPI	11J015-30092	05/28/13
STD 3 / HDL 6010B/6010C					1mL	Ca	CPI	11J031-29989	05/14/13
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15	1mL	Mg	CPI	11K178-30093	05/28/13
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15	1mL	Fe	O2SI	1030787-30616	05/17/13
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15	0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 100 ml 1%HNO3 / 5%HCl					Prepared in 50 ml 1%HNO3/5%HCl				
STD 2 / CCV1 6010B/6010C/6010C					6010B/6010C ICV				
AMOUNT	STD	PREP DATE	EXP DATE		0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
25mL	STD 3	Today	1 week		0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
25mL	1%HNO3/5%HCl	Today	1 week		Prepared in 50ml 1%HNO3/5%HCl				
CCV2 6010B/6010C									
AMOUNT	STD	PREP DATE	EXP DATE						
15mL	STD 3	Today	1 week						
25mL	1%HNO3/5%HCl	Today	1 week						

SA 11-27-12

SA 11-27-12

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121127A **Units** mL

Spikes	
Spiked ID 1	LCSW LOT# 1039704-31514
Spiked ID 2	LCSW LOT# 1039705-31515
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 11/27/12 10:25:00 AM
Witnessed By	BC Date: 11/27/12 10:25:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	11/27/12 15:30

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121127A Blk				2.50g	100mL	11/27/12 10:25	equip: Modblock4
2	121127A LCS		1mL	1+2	2.50g	100mL	11/27/12 10:25	equip: Modblock4
3	AY71478	AY71478M01			2.45g	100mL	11/27/12 10:25	equip: Modblock4
4	AY71480	AY71480M01			2.48g	100mL	11/27/12 10:25	equip: Modblock4
5	AY71482	AY71482M01			1.86g	100mL	11/27/12 10:25	equip: Modblock4
6	AY71484	AY71484M01			1.07g	100mL	11/27/12 10:25	equip: Modblock4
7	AY71486	AY71486M01			1.62g	100mL	11/27/12 10:25	equip: Modblock4
8	AY71558	AY71558M01			0.95g	100mL	11/27/12 10:25	equip: Modblock4
9	AY72097	AY72097M01			2.45g	100mL	11/27/12 10:25	equip: Modblock4
10	AY72100	AY72100M01			2.47g	100mL	11/27/12 10:25	equip: Modblock4
11	AY72103	AY72103M01			2.57g	100mL	11/27/12 10:25	equip: Modblock4
12	AY72103 MS	AY72103M01	2mL	1+2	2.57g	100mL	11/27/12 10:25	equip: Modblock4
13	AY72103 MSD	AY72103M01	2mL	1+2	2.57g	100mL	11/27/12 10:25	equip: Modblock4

Solvent and Lot#
1:1 HNO3 11-9-12
HNO3 J.T.B. L10023 0276
H2O2 J.T.B K20J00 0254
HCL EMD Lot# 4112030 0277

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	SA
Date	11-27-12
Time	15:30
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	11/27/12 11:23:59 AM

Reviewed By: SA **Date:** 11-27-12

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121113A **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 1037547-31170		
Spiked ID 2	LCSW LOT# 1037545-31167		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	11/13/12 8:20:00 AM
Witnessed By	BC	Date:	11/13/12 8:20:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	11/13/12 14:30

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121113A Blk				2.50g	100mL	11/13/12 8:20	equip: Modblock4
2	121113A LCS		1mL	1+2	2.50g	100mL	11/13/12 8:20	equip: Modblock4
3	AY71479	AY71479M01			2.56g	100mL	11/13/12 8:20	equip: Modblock4
4	AY71481	AY71481M01			2.55g	100mL	11/13/12 8:20	equip: Modblock4
5	AY71483	AY71483M01			2.52g	100mL	11/13/12 8:20	equip: Modblock4
6	AY71485	AY71485M01			2.56g	100mL	11/13/12 8:20	equip: Modblock4
7	AY71487	AY71487M01			2.57g	100mL	11/13/12 8:20	equip: Modblock4
8	AY71559	AY71559M01			2.50g	100mL	11/13/12 8:20	equip: Modblock4
9	AY71560	AY71560M01			2.53g	100mL	11/13/12 8:20	equip: Modblock4
10	AY71560 MS	AY71560M01	2mL	1+2	2.53g	100mL	11/13/12 8:20	equip: Modblock4
11	AY71560 MSD	AY71560M01	2mL	1+2	2.53g	100mL	11/13/12 8:20	equip: Modblock4

Solvent and Lot#
1:1 HNO3 11-8-12
HNO3 J.T.B. L10023 0271
H2O2 J.T.B K20J00 0254
HCL EMD Lot# 4112032 0272

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	BA
Date	11-13-12
Time	14:30
Moved to	metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	11/13/12 10:54:28 AM

Reviewed By: [signature] **Date:** 11-14-12

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	13 Nov 2012	11:11	CalBlk 121113EA I:PB O:EA		121113A6010	1.
2	13 Nov 2012	11:16	STD 1 121113EA I:PB O:EA		121113A6010	1.
3	13 Nov 2012	11:20	STD 2 121113EA I:PB O:EA		121113A6010	1.
4	13 Nov 2012	11:23	STD 3 121113EA I:PB O:EA		121113A6010	1.
5	13 Nov 2012	11:26	ICV 121113EA I:PB O:EA		121113A6010	1.
6	13 Nov 2012	11:30	ICB 121113EA I:PB O:EA		121113A6010	1.
8	13 Nov 2012	11:39	ICSA 121113EA I:PB O:EA		121113A6010	1.
9	13 Nov 2012	11:43	ICSAB 121113EA I:PB O:EA		121113A6010	1.
10	13 Nov 2012	11:59	CCV1 121113EA I:PB O:EA		121113A6010	1.
11	13 Nov 2012	12:03	CCB 121113EA I:PB O:EA		121113A6010	1.
106	13 Nov 2012	19:43	CCV1 121113EA I:PB O:EA		121113A6010	1.
107	13 Nov 2012	19:47	CCB 121113EA I:PB O:EA		121113A6010	1.
108	13 Nov 2012	19:51	121113A-3050-BLK		121113A6010	1.
109	13 Nov 2012	19:56	121113A-3050-LCS		121113A6010	1.
110	13 Nov 2012	20:00	AY71479M01		121113A6010	1.
111	13 Nov 2012	20:05	AY71481M01		121113A6010	1.
112	13 Nov 2012	20:10	AY71483M01		121113A6010	1.
113	13 Nov 2012	20:15	AY71485M01		121113A6010	1.
114	13 Nov 2012	20:20	AY71487M01		121113A6010	1.
117	13 Nov 2012	20:37	CCV2 121113EA I:PB O:EA		121113A6010	1.
118	13 Nov 2012	20:41	CCB 121113EA I:PB O:EA		121113A6010	1.

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	27 Nov 2012	15:48	CalBlk 121127EA I:PB O:EA		121127A6010	1.
2	27 Nov 2012	15:52	STD 1 121127EA I:PB O:EA		121127A6010	1.
3	27 Nov 2012	15:56	STD 2 121127EA I:PB O:EA		121127A6010	1.
4	27 Nov 2012	15:59	STD 3 121127EA I:PB O:EA		121127A6010	1.
5	27 Nov 2012	16:03	ICV 121127EA I:PB O:EA		121127A6010	1.
6	27 Nov 2012	16:06	ICB 121127EA I:PB O:EA		121127A6010	1.
8	27 Nov 2012	16:14	ICSA 121127EA I:PB O:EA		121127A6010	1.
9	27 Nov 2012	16:18	ICSAB 121127EA I:PB O:EA		121127A6010	1.
10	27 Nov 2012	16:22	CCV1 121127EA I:PB O:EA		121127A6010	1.
11	27 Nov 2012	16:28	CCB 121127EA I:PB O:EA		121127A6010	1.
30	27 Nov 2012	18:14	CCV1 121127EA I:PB O:EA		121127A6010	1.
31	27 Nov 2012	18:17	CCB 121127EA I:PB O:EA		121127A6010	1.
32	27 Nov 2012	18:21	121127A-3050-BLK		121127A6010	1.
33	27 Nov 2012	18:26	121127A-3050-LCS		121127A6010	1.
35	27 Nov 2012	18:34	AY71478M01		121127A6010	1.
36	27 Nov 2012	18:40	AY71480M01		121127A6010	1.
37	27 Nov 2012	18:46	AY71482M01		121127A6010	1.
38	27 Nov 2012	18:51	AY71484M01		121127A6010	1.
39	27 Nov 2012	18:57	AY71486M01		121127A6010	1.
42	27 Nov 2012	19:16	CCV2 121127EA I:PB O:EA		121127A6010	1.
43	27 Nov 2012	19:23	CCB 121127EA I:PB O:EA		121127A6010	1.

Wetlab Results

ARF: 69230

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
APPL ID: AY71479 -Client Sample ID: GT12016L			-Sample Collection Date: 11/03/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	71.8	2.0	%	11/12/12	11/13/12
APPL ID: AY71481 -Client Sample ID: GT12018L			-Sample Collection Date: 11/03/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	71.8	2.0	%	11/12/12	11/13/12
APPL ID: AY71483 -Client Sample ID: GT12012L			-Sample Collection Date: 11/04/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	70.3	2.0	%	11/12/12	11/13/12
APPL ID: AY71485 -Client Sample ID: GT12014L			-Sample Collection Date: 11/04/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	69.4	2.0	%	11/12/12	11/13/12
APPL ID: AY71487 -Client Sample ID: GT12020L			-Sample Collection Date: 11/05/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	69.7	2.0	%	11/12/12	11/13/12

Printed: 11/28/12 12:58:23 PM

% Moisture

Batch: QCG 121112-M004544

Method: CLP 4.0

Date: 11/12/12 16:30

Sample	Container	Pan (g)	Pan+Wet (g)	Pan+Dry 1 (g)	Pan+Dry 2 (g)	Moisture (%)	Comments
AY71487	m01	0.8313 11/12/12 16:30	6.3056 11/12/12 16:31	2.4908 11/13/12 07:37	2.4908 11/13/12 07:37	69.686	AY71487M01
AY71485	m01	0.8400 11/12/12 16:28	5.9705 11/12/12 16:30	2.4098 11/13/12 07:36	2.4098 11/13/12 07:36	69.403	AY71485M01
AY71483	m01	0.8374 11/12/12 16:27	6.8427 11/12/12 16:28	2.6203 11/13/12 07:36	2.6206 11/13/12 07:36	70.306	AY71483M01
AY71481	m01	0.8320 11/12/12 16:26	7.5693 11/12/12 16:27	2.7322 11/13/12 07:36	2.7321 11/13/12 07:36	71.797	AY71481M01
AY71479	m01	0.8358 11/12/12 16:25	6.7191 11/12/12 16:26	2.4954 11/13/12 07:36	2.4953 11/13/12 07:36	71.793	AY71479M01
AY71477	m01	0.8390 11/12/12 16:24	6.2456 11/12/12 16:25	2.1237 11/13/12 07:36	2.1237 11/13/12 07:36	76.238	AY71477M01
AY71476	m01	0.8482 11/12/12 16:22	6.3242 11/12/12 16:23	2.1303 11/13/12 07:35	2.1303 11/13/12 07:35	76.587	AY71476M01
AY71475	m01	0.8408 11/12/12 16:20	6.6633 11/12/12 16:21	2.1926 11/13/12 07:35	2.1926 11/13/12 07:35	76.783	AY71475M01
AY71474	m01	0.8344 11/12/12 16:16	7.0596 11/12/12 16:19	2.3955 11/13/12 07:35	2.3956 11/13/12 07:35	74.921	AY71474M01
AY71473D	m01	0.8361 11/12/12 16:15	6.6488 11/12/12 16:16	2.3239 11/13/12 07:35	2.3240 11/13/12 07:35	74.403	AY71473M01
AY71473	m01	0.8404 11/12/12 16:12	6.6820 11/12/12 16:15	2.3334 11/13/12 07:35	2.3333 11/13/12 07:35	74.444	AY71473M01

Date/Time InOven@104°C	Date/Time OutOven@104°C	Date/Time InOven@104°C	Date/Time OutOven@104°C
11/12/12 4:32:00 PM			11/13/12 7:35:00 AM

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
11/9/12	BB	Mettler AT200	0.5g	0.5001 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0001 g	0.9990	1.0010	
		Mettler AT200	20g	20.0004 g	19.9800	20.0200	
		Mettler AT200	50g	50.0011 g	49.9500	50.0500	
		Mettler AT200	100g	100.0028 g	99.9000	100.1000	
		Mettler AT200	150g	150.0032 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
11/12/12	BB						Yes
		Mettler AT200	0.5g	0.5002 g	0.4995	0.5005	
		Mettler AT200	1g	1.0002 g	0.9990	1.0010	
		Mettler AT200	20g	20.0006 g	19.9800	20.0200	
		Mettler AT200	50g	50.0015 g	49.9500	50.0500	
		Mettler AT200	100g	100.0028 g	99.9000	100.1000	
		Mettler AT200	150g	150.0040 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
11/13/12	BB						Yes
		Mettler AT200	0.5g	0.5001 g	0.4995	0.5005	
		Mettler AT200	1g	1.0001 g	0.9990	1.0010	
		Mettler AT200	20g	20.0006 g	19.9800	20.0200	
		Mettler AT200	50g	50.0014 g	49.9500	50.0500	
		Mettler AT200	100g	100.0027 g	99.9000	100.1000	
		Mettler AT200	150g	150.0041 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
11/14/12	AP	Mettler AT200	0.5g	0.5001 g	0.4995	0.5005	yes
		Mettler AT200	1g	1.0002 g	0.9990	1.0010	
		Mettler AT200	20g	20.0006 g	19.9800	20.0200	
		Mettler AT200	50g	50.0013 g	49.9500	50.0500	
		Mettler AT200	100g	100.0023 g	99.9000	100.1000	
		Mettler AT200	150g	150.0034 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.99 g	1960.00	2040.00	

Laboratory Report

Parsons

Project #: 748350.02000 CSSA

ARF: 69254

Samples collected: November 7, 2012

APPL, Inc.

Data Validatable Package

for

Project #: 748350.02000 CSSA

ARF 69254

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CASE NARRATIVE

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

EPA Method 6010B
Metals

Case Narrative

ARF: 69254

Project: 748350.02000 CSSA

California State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Texas Certificate Number: T104704242-10-3

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

The samples were received November 9, 2012, at 3.0°C. The samples were assigned Analytical Request Form (ARF) number 69254. The sample numbers and requested analyses were compared to the chain of custody. No exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
GT12021B	AY71558	MISC	11/07/12	11/09/12
GT12021L	AY71559	MISC	11/07/12	11/09/12

Percent moisture was determined using CLP 4.0 for the liver samples. Percent moisture was not determined on the bone samples.

Digestion Information:

The liver samples were frozen and homogenized according to APPL's SOP PRE003. The bone samples were dried in the oven at 104°C; once dried, a drill was used to "shave" the bone and obtain a representative sample. For sample GT12021B, less than 2.5grams was digested because of the difficulty in shaving the bones. An aliquot of the homogenized liver sample and bone was digested according to EPA method 3050B. Since the laboratory was unable to obtain a similar clean matrix, the blank and the LCS were digested according to APPL's SOP PRE3050B. No other exception was encountered. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed according to EPA method 6010B using a Perkin Elmer Optima 5300DV ICP.

Calibrations:

Calibrations were performed according to the method for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard. All other calibration acceptance criteria were met.

Blanks:

No target metal was detected above the reporting limit (RL) in the method blank.

Spikes:

Laboratory Control Spike (LCS), post-digestion spike (PDS), and dilution test were used for quality assurance. All LCS acceptance criteria were met.

For the 121113A analytical batch, sample GT12021M (APPL SDG #69255) was selected as the QC sample. All PDS and dilution test recoveries are reported in APPL report #69255.

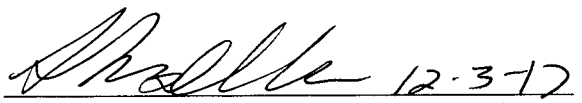
For the 121127A analytical batch, sample GT12029M (APPL SDG #69341) was selected as the QC sample. All PDS and dilution test recoveries are reported in APPL report #69341.

Summary:

No other analytical exception is noted.

CERTIFICATION

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. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.



Sharon Dehmlow, Laboratory Director / Date

Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other - explain
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel.
Y	Percent difference between primary and confirmation column > 40%

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 69254

Client: **Parsons**
Address: **8000 Centre Park Drive Ste 200**
Austin, TX 78754
Attn: **Tammy Chang**
Phone: **512-719-6092** Fax: **512-719-6099**
Job: **748350.02000 CSSA**
PO #: **748350.30002 (prime *G012)**
Chain of Custody (Y/N): **Y** # **110812APPFA**
RAD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **STD**

Received by: **WLA**
Date Received: **11/09/12** Time: **11:25**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-6**
Chest Temp(s): **3.0°C**
Color: **A_FREZ**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Diane Anderson** *rp*
QC Report Type: **DVP4/AFCEE/ERPIMS/TX**
Due Date: **11/30/12**

Comments:
Prelim muscle (meat) data due in 7 calendar days; final report due in 21 calendar days.
pdf ARF to Tammy & Pam; send 1 DVP3 HC & send DVP3 & DVP4 on CD to Tammy.

Case Narrative. CSSA QAPP. Only report MS/MSD when requested.
Report results on APPL forms: U to the RL; report results in wet weight (without moisture correction)
Wait to do moisture analysis after metals analysis.
EDD: ERPIMS 4 Lab PC4 checked TXF to Pam.Ford@parsons.com

DJ 11-28-12

11-9 Sent ARF

Sample Distribution:
Metals: 2-$6010BDODS(Pb)
Wetlab: 2-MOIST
Other: 2-_M3050

Charges:

Invoice To:
PARSONS GOV'T SERV.
8000 Centre Park Drive Ste 200
Austin, TX 78754-5140
Attn: Ellen Felfe

	Client ID	APPL ID	Sampled	Analyses Requested
1.	GT12021B	AY71558M	11/07/12 18:00	$6010BDODS(Pb), ~~MOIST~~
2.	GT12021L	AY71559M	11/07/12 18:00	$6010BDODS(Pb), MOIST

Note: All times, excluding sample collection times, are Pacific Time Zone unless noted otherwise. Collection times are in: -6 UTC

APPL Sample Receipt Form

ARF# **69254**

Sample	Container Type	Count	pH
AY71558	35 Plastic Bag	1	NA
AY71559	35 Plastic Bag	1	NA

Sample	Container Type	Count	pH

APPL - Receiving

From: Renee Patterson [rpatterson@applinc.com]
Sent: Thursday, November 08, 2012 1:48 PM
To: receiving@applinc.com; 'Leonard Fong'; 'Metals'
Subject: FW: deer sample to APPL
Attachments: 110812_APPL.pdf; 110812APPFA_SAMPLES.TXT

From: Chang, Tammy [mailto:Tammy.Chang@parsons.com]
Sent: Thursday, November 08, 2012 1:17 PM
To: Diane Anderson; Renee Patterson; Jeremy Hale; rwise
Cc: Burdey, Julie; Rembish, Steve J; Ford, Pamela; de las Fuentes, Sandra
Subject: FW: deer samp to APPL

One deer with three body parts will be delivered to your lab tomorrow morning. Sam placed each body part in its own plastic bag. Muscle sample needs to be processed within 7 business days (preferable to be done by next Friday) and others with 21 calendar days.

Tammy

From: Elliott, Samantha
Sent: Thursday, November 08, 2012 3:13 PM
To: Chang, Tammy; de las Fuentes, Sandra
Cc: Rembish, Steve J; Burdey, Julie
Subject: deer samp to APPL

One cooler going to APPL today, see attached.

Thanks,
Samantha Elliott
Scientist
(210) 347-6012
PARSONS

Camp Stanley Storage Activity Chain Of Custody

COC ID:	110812APPFA	Relinquish_Date:	11/8/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF
Job Number:	748350.02000	Relinquish_Time:	4:00 PM	Carrier:	FedEx
Creation Date:	11/8/2012	Collection Team:	SE	Airbill Carrier:	876436444226
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

692547/692555 3.0°C

Sampler(s): Sam Elliott S. Elliott

LOCID: **GT12021B** LOGDATE: **11/7/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **18:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12021B_110712_N1800** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12021L** LOGDATE: **11/7/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **18:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12021L_110712_N1800** EBLOT: Containers: 1
Remarks: **gunshot lacerated liver**
Analysis Required: SW6010B LEAD

LOCID: **GT12021M** LOGDATE: **11/7/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **18:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12021M_110712_N1800** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

Relinquished by: S. Elliott Date 11/8/12 Time 1600
Recieved by:____ Date____ Time____

Relinquished by:____ Date____ Time____
Recieved by: Date 11/9/12 Time 1123

Relinquished by:____ Date____ Time____
Recieved by:____ Date____ Time____

COOLER RECEIPT FORM

1) Project: 748350.020000 CSSA Date Received: 11/9/12

2) Coolers: Number of Coolers: 1

3) YES NO Were coolers and samples screened for radioactivity?

4) YES NO Were custody seals on outside of cooler? How many? 1 Date on seal? 11/8/12

5) Name on seal? See Below

6) YES NO NA Were custody seals unbroken and intact at the time of arrival?

7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex

8) Shipping slip numbers: 1) 876436044226 2) 3)

9) YES NO NA Was the shipping slip scanned into the database?

10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Wet Ice

12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?

13) YES NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: A39267 Correction factor: 0

15) Cooler temp(s): 1) 3°C 2) 3) 4) 5) 6) 7)

Chain of custody:

16) YES NO Was a chain of custody received?

17) YES NO Were the custody papers signed in the appropriate places?

18) YES NO Was the project identifiable from custody papers?

19) YES NO Did the chain of custody include date and time of sampling?

20) YES NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) YES NO Were container labels in good condition?

22) YES NO Was the client ID on the label?

23) YES NO Was the date of sampling on the label?

24) YES NO Was the time of sampling on the label?

25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?

27) YES NO Did all containers arrive unbroken?

28) YES NO Was there any leakage from samples?

29) YES NO Were any of the lids cracked or broken?

30) YES NO Were correct containers used for the tests indicated?

31) YES NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea:

Smaller than a pea:

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO NA Unpreserved VOA Vials received?

38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

Lab notified if pH was not adequate:

Deficiencies:

Signature of personnel receiving samples: Second reviewer:

Signature of project manager notified: Date and Time of notification:

Name of client notified: Date and Time of notification:

Information given to client:

by whom (Initials):

CUSTODY SEAL
APPL, Inc.
(559) 275-2175
Initials SE
Date 11/8/12

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/27/12	11/27/12	#6010B-121127A-AY72103
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/13/12	11/13/12	#6010B-121113A-AY71560

Metals SC-Blank-REG MDLs
Printed: 12/03/12 10:30:48 AM

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.0	10.5	105	80-120	11/13/12	11/13/12	#6010B-121113A-AY71560

Comments: _____

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.0	10.4	104	80-120	11/27/12	11/27/12	#6010B-121127A-AY72103

Comments: _____

METALS
Sample Data

APPL, INC.

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12021B
Sample Collection Date: 11/07/12

ARF: 69254
APPL ID: AY71558

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/27/12	11/27/12

Printed: 12/03/12 10:30:45 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 40
Sample ID: AY71558M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 0.95 g
Dilution:

Autosampler Location: 97
Date Collected: 11/27/12 7:03:09 PM
Data Type: Reprocessed on 11/28/12 2:45:16 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71558M01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	561.7	4.435	ug/L	0.3549	0.467	mg/kg	0.0374	8.00%
Al 308.215	929.9	479.5	ug/L	6.01	50.48	mg/kg	0.632	1.25%
As 188.979	61.8	11.48	ug/L	1.374	1.208	mg/kg	0.1446	11.97%
B	71.3	-7.664	ug/L	0.5407	-0.807	mg/kg	0.0569	7.06%
Ba 233.527	53578.4	314.8	ug/L	1.04	33.14	mg/kg	0.109	0.33%
Be 313.107	-3017.7	-0.466	ug/L	0.0158	-0.049	mg/kg	0.0017	3.39%
Ca 315.887	15867565.5	1201000	ug/L	8610.4	126400	mg/kg	906.4	0.72%
Cd 214.440	245.5	-1.989	ug/L	0.0093	-0.209	mg/kg	0.0010	0.47%
Co 228.616	166.9	-1.598	ug/L	0.3300	-0.168	mg/kg	0.0347	20.65%
Cr 267.716	3535.4	21.02	ug/L	0.054	2.212	mg/kg	0.0056	0.25%
Cu 327.393	604.1	5.929	ug/L	0.5913	0.624	mg/kg	0.0622	9.97%
Fe 273.955	43655.8	1564	ug/L	4.2	164.6	mg/kg	0.44	0.27%
K 766.490	7418.8	2672	ug/L	77.3	281.3	mg/kg	8.14	2.89%
Mg 285.213	449966.3	21750	ug/L	154.7	2290	mg/kg	16.3	0.71%
Mn 257.610	1107.4	13.71	ug/L	0.136	1.443	mg/kg	0.0143	0.99%
Mo 202.031	28.5	-5.301	ug/L	0.1097	-0.558	mg/kg	0.0116	2.07%
Na 589.592	538663.3	39670	ug/L	277.2	4176	mg/kg	29.2	0.70%
Ni 231.604	783.9	11.47	ug/L	0.260	1.207	mg/kg	0.0274	2.27%
P 213.617	3782422.5	516200	ug/L	3173.8	54330	mg/kg	334.1	0.61%
Pb 220.353	3.7	0.238	ug/L	0.4417	0.025	mg/kg	0.0465	185.75%
Sb 206.836	-8.1	-1.210	ug/L	0.5875	-0.127	mg/kg	0.0618	48.57%
Se 196.026	1.5	0.293	ug/L	3.2907	0.031	mg/kg	0.3464	>999.9%
Sn 189.927	-22.5	-2.824	ug/L	1.2855	-0.297	mg/kg	0.1353	45.52%
Sr 421.552	266573.8	246.8	ug/L	1.75	25.98	mg/kg	0.185	0.71%
Ti 337.279	384.5	5.439	ug/L	0.2303	0.573	mg/kg	0.0242	4.23%
Tl 190.801	-17.4	-2.553	ug/L	0.2956	-0.269	mg/kg	0.0311	11.58%
V 292.402	589.6	1.419	ug/L	0.1467	0.149	mg/kg	0.0154	10.34%
Zn 206.200	38053.9	404.4	ug/L	2.30	42.57	mg/kg	0.243	0.57%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12021L
Sample Collection Date: 11/07/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69254
APPL ID: AY71559

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/13/12	11/13/12

Printed: 12/03/12 10:30:45 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 115
Sample ID: AY71559M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 121
Date Collected: 11/13/12 8:25:21 PM
Data Type: Reprocessed on 11/14/12 11:09:12 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71559M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	387.5	3.082	ug/L	0.2454	0.123	mg/kg	0.0098	7.96%
Al 308.215	15.7	9.597	ug/L	8.6457	0.384	mg/kg	0.3458	90.08%
As 188.979	10.0	2.107	ug/L	0.5636	0.084	mg/kg	0.0225	26.75%
B	-3.3	6.534	ug/L	1.6610	0.261	mg/kg	0.0664	25.42%
Ba 233.527	340.9	0.994	ug/L	0.0399	0.040	mg/kg	0.0016	4.01%
Be 313.107	-1165.5	-0.195	ug/L	0.0057	-0.008	mg/kg	0.0002	2.93%
Ca 315.887	12772.1	1089	ug/L	10.8	43.56	mg/kg	0.431	0.99%
Cd 214.440	511.0	1.488	ug/L	0.0584	0.060	mg/kg	0.0023	3.93%
Co 228.616	112.7	1.595	ug/L	0.3478	0.064	mg/kg	0.0139	21.80%
Cr 267.716	373.5	2.810	ug/L	0.1344	0.112	mg/kg	0.0054	4.78%
Cu 327.393	113449.7	1082	ug/L	29.7	43.26	mg/kg	1.190	2.75%
Fe 273.955	54667.2	2133	ug/L	42.6	85.32	mg/kg	1.704	2.00%
K 766.490	142503.5	69580	ug/L	354.6	2783	mg/kg	14.2	0.51%
Mg 285.213	70201.6	3583	ug/L	21.7	143.3	mg/kg	0.87	0.61%
Mn 257.610	1920.2	34.28	ug/L	0.056	1.371	mg/kg	0.0022	0.16%
Mo 202.031	83.5	2.391	ug/L	0.4463	0.096	mg/kg	0.0179	18.67%
Na 589.592	240241.6	17400	ug/L	105.9	695.8	mg/kg	4.24	0.61%
Ni 231.604	-58.3	-0.989	ug/L	0.1146	-0.040	mg/kg	0.0046	11.59%
P 213.617	481329.3	74910	ug/L	1891.1	2996	mg/kg	75.6	2.52%
Pb 220.353	-18.7	-1.320	ug/L	0.8582	-0.053	mg/kg	0.0343	65.03%
Sb 206.836	1.7	0.312	ug/L	0.2339	0.012	mg/kg	0.0094	74.86%
Se 196.026	190.3	35.22	ug/L	2.840	1.409	mg/kg	0.1136	8.06%
Sn 189.927	-90.4	-12.93	ug/L	0.901	-0.517	mg/kg	0.0360	6.97%
Sr 421.552	588.4	0.730	ug/L	0.0546	0.029	mg/kg	0.0022	7.48%
Ti 337.279	21.4	0.167	ug/L	0.1138	0.007	mg/kg	0.0046	68.14%
Tl 190.801	-6.7	-1.074	ug/L	0.6095	-0.043	mg/kg	0.0244	56.75%
V 292.402	-18.7	-0.616	ug/L	0.1020	-0.025	mg/kg	0.0041	16.57%
Zn 206.200	37842.5	445.7	ug/L	6.95	17.83	mg/kg	0.278	1.56%

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69254 SDG: 69254
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/13/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:26	%R(1)	True CCV1	Found 11:59	%R(1)	True CCV1	Found 19:43	%R(1)	
Lead (Pb)	1000	1041	104	1000	1031	103	1000	1054	105	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69254 SDG: 69254
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/13/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:26	%R(1)	True CCV2	Found 20:37	%R(1)	True	Found	%R(1)	
Lead (Pb)	1000	1041	104	750	718.1	95.7				P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69254 SDG: 69254

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 11/13/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	11:30		12:03		19:47		20:41		19:51		
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name:	A.P.P.L. INC.	Contract:	Parsons
ARF No.:	69254	SDG:	69254
ICP ID Number:	Phoebe	ICS Source:	Environmental Express

Analysis Date: 11/13/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 11:39	Sol AB 11:43	%R(1)
Aluminum (Al)	200000	200000	189600	185600	92.8
Calcium (Ca)	200000	200000	191600	187300	93.7
Iron (Fe)	200000	200000	178500	174900	87.5
Magnesium (Mg)	200000	200000	186600	183100	91.5
Lead (Pb)		1000	ND	954.1	95.4

(1) Control Limits: Metals 80-120

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69254 SDG: 69254
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/27/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 16:03	%R(1)	True CCV1	Found 16:22	%R(1)	True CCV1	Found 18:14	%R(1)	
Lead (Pb)	1000	1067	107	1000	1027	103	1000	1040	104	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69254 SDG: 69254
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/27/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 16:03	%R(1)	True CCV2	Found 19:16	%R(1)	True	Found	%R(1)	
Lead (Pb)	1000	1067	107	750	811.4	108				P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69254 SDG: 69254

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 11/27/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C			
	16:06		16:28		18:17		19:23		18:21				
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U	P		

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69254 SDG: 69254

ICP ID Number: Phoebe ICS Source: Environmental Express

Analysis Date: 11/27/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 16:14	Sol AB 16:18	%R(1)
Aluminum (Al)	200000	200000	194000	191500	95.8
Calcium (Ca)	200000	200000	198000	198600	99.3
Iron (Fe)	200000	200000	181000	182400	91.2
Magnesium (Mg)	200000	200000	191900	202000	101
Lead (Pb)		1000	ND	956.7	95.7

(1) Control Limits: Metals 80-120

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 121113A6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1 Autosampler Location: 1
Sample ID: CalBlk 121113EA I:PB O:EA Date Collected: 11/13/12 11:11:40 AM
Analyst: Data Type: Reprocessed on 11/14/12 11:07:13 AM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CalBlk 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-533.0	108.61	20.38%	[0.00]	ug/L
Al 308.215	96.2	5.76	5.99%	[0.00]	ug/L
As 188.979	-7.2	5.49	76.00%	[0.00]	ug/L
B	23.5	6.74	28.71%	[0.00]	ug/L
Ba 233.527	110.0	10.69	9.72%	[0.00]	ug/L
Be 313.107	1315.7	41.65	3.17%	[0.00]	ug/L
Ca 315.887	-391.7	15.24	3.89%	[0.00]	ug/L
Cd 214.440	558.8	5.51	0.99%	[0.00]	ug/L
Co 228.616	52.8	21.57	40.84%	[0.00]	ug/L
Cr 267.716	519.1	15.62	3.01%	[0.00]	ug/L
Cu 327.393	-24.1	17.62	73.25%	[0.00]	ug/L
Fe 273.955	39.0	20.40	52.25%	[0.00]	ug/L
K 766.490	40.0	92.74	231.71%	[0.00]	ug/L
Mg 285.213	-32.2	9.74	30.26%	[0.00]	ug/L
Mn 257.610	-18.0	9.56	53.05%	[0.00]	ug/L
Mo 202.031	165.4	8.96	5.41%	[0.00]	ug/L
Na 589.592	-436.2	12.17	2.79%	[0.00]	ug/L
Ni 231.604	-262.3	14.06	5.36%	[0.00]	ug/L
P 213.617	20.0	10.32	51.60%	[0.00]	ug/L
Pb 220.353	-34.0	5.85	17.20%	[0.00]	ug/L
Sb 206.836	2.6	2.83	107.11%	[0.00]	ug/L
Se 196.026	-6.6	8.25	124.66%	[0.00]	ug/L
Sn 189.927	7.3	4.13	56.47%	[0.00]	ug/L
Sr 421.552	547.9	110.05	20.09%	[0.00]	ug/L
Ti 337.279	-331.4	19.37	5.84%	[0.00]	ug/L
Tl 190.801	-5.1	4.18	81.58%	[0.00]	ug/L
V 292.402	-889.9	14.14	1.59%	[0.00]	ug/L
Zn 206.200	-102.4	24.73	24.16%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/13/12 11:16:00 AM
Data Type: Reprocessed on 11/14/12 11:07:14 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	175.9	35.76	20.33%	[1.00]	ug/L
Al 308.215	179.4	8.77	4.89%	[100.00]	ug/L
As 188.979	27.4	4.54	16.61%	[3.50]	ug/L
B	216.2	4.59	2.12%	[50.00]	ug/L
Ba 233.527	851.2	8.85	1.04%	[5.00]	ug/L
Be 313.107	12470.5	154.16	1.24%	[2.00]	ug/L
Ca 315.887	1193.5	26.23	2.20%	[100.00]	ug/L
Cd 214.440	1783.4	7.21	0.40%	[5.00]	ug/L
Co 228.616	378.7	22.26	5.88%	[5.00]	ug/L
Cr 267.716	735.8	15.73	2.14%	[5.00]	ug/L
Cu 327.393	483.0	47.92	9.92%	[5.00]	ug/L
Fe 273.955	1325.0	7.74	0.58%	[50.00]	ug/L
K 766.490	1879.5	95.58	5.09%	[1000.00]	ug/L
Mg 285.213	1021.8	2.55	0.25%	[50]	ug/L
Mn 257.610	286.7	7.53	2.63%	[5.00]	ug/L
Mo 202.031	204.4	6.88	3.37%	[5.00]	ug/L
Na 589.592	14211.3	246.30	1.73%	[1000.00]	ug/L
Ni 231.604	348.7	12.15	3.48%	[5.00]	ug/L
P 213.617	163.5	5.93	3.63%	[25.00]	ug/L
Pb 220.353	46.6	8.21	17.62%	[3.00]	ug/L
Sb 206.836	27.2	2.86	10.51%	[5.00]	ug/L
Se 196.026	25.1	8.38	33.39%	[5.00]	ug/L
Sn 189.927	26.7	7.92	29.64%	[5.00]	ug/L
Sr 421.552	5553.5	241.53	4.35%	[5.00]	ug/L
Ti 337.279	204.6	13.12	6.41%	[5.00]	ug/L
Tl 190.801	34.1	1.35	3.96%	[5.00]	ug/L
V 292.402	1207.9	17.47	1.45%	[5.00]	ug/L
Zn 206.200	1940.1	17.64	0.91%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/13/12 11:20:24 AM
Data Type: Reprocessed on 11/14/12 11:07:15 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	56952.4	457.49	0.80%	[500.0]	ug/L
Al 308.215	36355.4	160.07	0.44%	[20000.00]	ug/L
As 188.979	5146.9	60.41	1.17%	[1000.00]	ug/L
B	4433.0	19.25	0.43%	[1000.00]	ug/L
Ba 233.527	176039.3	385.24	0.22%	[1000.00]	ug/L
Be 313.107	6511126.3	61896.38	0.95%	[1000.00]	ug/L
Ca 315.887	629607.1	5152.90	0.82%	[50000]	ug/L
Cd 214.440	356054.2	741.11	0.21%	[1000.00]	ug/L
Co 228.616	73076.3	142.12	0.19%	[1000.00]	ug/L
Cr 267.716	146049.9	228.60	0.16%	[1000.00]	ug/L
Cu 327.393	112936.0	1245.93	1.10%	[1000.00]	ug/L
Fe 273.955	570291.2	1027.76	0.18%	[20000]	ug/L
K 766.490	42938.9	65.36	0.15%	[20000]	ug/L
Mg 285.213	1063751.6	7093.76	0.67%	[50000]	ug/L
Mn 257.610	59473.6	225.45	0.38%	[1000.00]	ug/L
Mo 202.031	37082.2	386.96	1.04%	[1000.00]	ug/L
Na 589.592	370497.3	2373.08	0.64%	[25000]	ug/L
Ni 231.604	68130.2	756.23	1.11%	[1000.00]	ug/L
P 213.617	35750.2	464.32	1.30%	[5000]	ug/L
Pb 220.353	15485.7	158.76	1.03%	[1000.00]	ug/L
Sb 206.836	5147.3	55.20	1.07%	[1000.00]	ug/L
Se 196.026	5697.5	69.59	1.22%	[1000.00]	ug/L
Sn 189.927	6258.8	57.61	0.92%	[1000.00]	ug/L
Sr 421.552	1124808.4	8005.08	0.71%	[1000.00]	ug/L
Ti 337.279	36106.3	116.31	0.32%	[1000.00]	ug/L
Tl 190.801	6748.4	75.85	1.12%	[1000.00]	ug/L
V 292.402	254006.6	549.65	0.22%	[1000.00]	ug/L
Zn 206.200	94943.0	322.73	0.34%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 11/13/12 11:23:09 AM
Data Type: Reprocessed on 11/14/12 11:07:16 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	128675.0	1019.88	0.79%	[1000.00]	ug/L
Al 308.215	67234.2	407.72	0.61%	[40000.00]	ug/L
As 188.979	9351.8	84.76	0.91%	[2000.00]	ug/L
B	8403.8	117.08	1.39%	[2000.00]	ug/L
Ba 233.527	312551.2	2411.10	0.77%	[2000.00]	ug/L
Be 313.107	11690775.9	39369.47	0.34%	[2000.00]	ug/L
Ca 315.887	1144319.9	13362.75	1.17%	[100000.0]	ug/L
Cd 214.440	621473.8	4129.84	0.66%	[2000.00]	ug/L
Co 228.616	129131.6	962.59	0.75%	[2000.00]	ug/L
Cr 267.716	257713.6	1768.45	0.69%	[2000.00]	ug/L
Cu 327.393	205764.0	1728.49	0.84%	[2000.00]	ug/L
Fe 273.955	994817.0	6994.82	0.70%	[40000]	ug/L
K 766.490	80943.5	704.09	0.87%	[40000]	ug/L
Mg 285.213	1917762.2	19838.56	1.03%	[100000]	ug/L
Mn 257.610	109978.4	732.89	0.67%	[2000.00]	ug/L
Mo 202.031	80654.6	590.44	0.73%	[2000.00]	ug/L
Na 589.592	676512.4	7136.30	1.05%	[50000]	ug/L
Ni 231.604	118165.7	911.54	0.77%	[2000.00]	ug/L
P 213.617	62443.8	437.56	0.70%	[10000]	ug/L
Pb 220.353	27773.7	158.03	0.57%	[2000.00]	ug/L
Sb 206.836	11150.6	84.55	0.76%	[2000.00]	ug/L
Se 196.026	10267.1	14.99	0.15%	[2000.00]	ug/L
Sn 189.927	14350.3	93.20	0.65%	[2000.00]	ug/L
Sr 421.552	2072748.6	23790.94	1.15%	[2000.00]	ug/L
Ti 337.279	85246.6	585.14	0.69%	[2000.00]	ug/L
Tl 190.801	12205.0	73.28	0.60%	[2000.00]	ug/L
V 292.402	450552.2	4122.35	0.91%	[2000.00]	ug/L
Zn 206.200	165204.1	740.10	0.45%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	125.7	0.00000	0.998898	
Al 308.215	3	Lin Thru 0	0.0	1.708	0.00000	0.999486	
As 188.979	3	Lin Thru 0	0.0	4.770	0.00000	0.999221	
B	3	Lin Thru 0	0.0	4.248	0.00000	0.999763	
Ba 233.527	3	Lin Thru 0	0.0	160.2	0.00000	0.998785	
Be 313.107	3	Lin Thru 0	0.0	5979	0.00000	0.999009	
Ca 315.887	3	Lin Thru 0	0.0	11.67	0.00000	0.999226	
Cd 214.440	3	Lin Thru 0	0.0	319.8	0.00000	0.998397	
Co 228.616	3	Lin Thru 0	0.0	66.27	0.00000	0.998683	
Cr 267.716	3	Lin Thru 0	0.0	132.3	0.00000	0.998652	
Cu 327.393	3	Lin Thru 0	0.0	104.9	0.00000	0.999266	
Fe 273.955	3	Lin Thru 0	0.0	25.60	0.00000	0.998383	
K 766.490	3	Lin Thru 0	0.0	2.048	0.00000	0.999708	
Mg 285.213	3	Lin Thru 0	0.0	19.60	0.00000	0.999085	
Mn 257.610	3	Lin Thru 0	0.0	55.89	0.00000	0.999485	
Mo 202.031	3	Lin Thru 0	0.0	39.68	0.00000	0.999465	
Na 589.592	3	Lin Thru 0	0.0	13.79	0.00000	0.999301	
Ni 231.604	3	Lin Thru 0	0.0	60.89	0.00000	0.998239	
P 213.617	3	Lin Thru 0	0.0	6.426	0.00000	0.998414	
Pb 220.353	3	Lin Thru 0	0.0	14.21	0.00000	0.998988	
Sb 206.836	3	Lin Thru 0	0.0	5.490	0.00000	0.999514	
Se 196.026	3	Lin Thru 0	0.0	5.246	0.00000	0.999077	
Sn 189.927	3	Lin Thru 0	0.0	6.992	0.00000	0.998628	
Sr 421.552	3	Lin Thru 0	0.0	1054	0.00000	0.999437	
Ti 337.279	3	Lin Thru 0	0.0	41.32	0.00000	0.998016	
Tl 190.801	3	Lin Thru 0	0.0	6.232	0.00000	0.999142	

V 292.402	3	Lin Thru 0	0.0	231.0	0.00000	0.998765
Zn 206.200	3	Lin Thru 0	0.0	85.07	0.00000	0.998320

Sequence No.: 5
Sample ID: ICV 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 11/13/12 11:26:24 AM
Data Type: Reprocessed on 11/14/12 11:07:17 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65262.0	519.1	ug/L	14.40	519.1	ug/L	14.40	2.77%
QC value within limits for Ag 338.289 Recovery = 103.82%								
Al 308.215	40867.2	23930	ug/L	588.5	23930	ug/L	588.5	2.46%
QC value within limits for Al 308.215 Recovery = 95.74%								
As 188.979	4614.1	967.3	ug/L	4.89	967.3	ug/L	4.89	0.51%
QC value within limits for As 188.979 Recovery = 96.73%								
B	4103.4	1044	ug/L	22.7	1044	ug/L	22.7	2.17%
QC value within limits for B Recovery = 104.40%								
Ba 233.527	161857.4	998.5	ug/L	23.11	998.5	ug/L	23.11	2.31%
QC value within limits for Ba 233.527 Recovery = 99.85%								
Be 313.107	6106345.0	1021	ug/L	20.4	1021	ug/L	20.4	1.99%
QC value within limits for Be 313.107 Recovery = 102.14%								
Ca 315.887	291522.6	24960	ug/L	228.9	24960	ug/L	228.9	0.92%
QC value within limits for Ca 315.887 Recovery = 99.86%								
Cd 214.440	330720.1	1033	ug/L	21.2	1033	ug/L	21.2	2.06%
QC value within limits for Cd 214.440 Recovery = 103.33%								
Co 228.616	68566.1	1034	ug/L	23.6	1034	ug/L	23.6	2.28%
QC value within limits for Co 228.616 Recovery = 103.38%								
Cr 267.716	136000.4	1029	ug/L	21.0	1029	ug/L	21.0	2.04%
QC value within limits for Cr 267.716 Recovery = 102.92%								
Cu 327.393	103572.3	987.4	ug/L	26.42	987.4	ug/L	26.42	2.68%
QC value within limits for Cu 327.393 Recovery = 98.74%								
Fe 273.955	640654.2	24940	ug/L	552.0	24940	ug/L	552.0	2.21%
QC value within limits for Fe 273.955 Recovery = 99.77%								
K 766.490	49560.6	24190	ug/L	458.3	24190	ug/L	458.3	1.90%
QC value within limits for K 766.490 Recovery = 96.74%								
Mg 285.213	491571.4	25110	ug/L	235.6	25110	ug/L	235.6	0.94%
QC value within limits for Mg 285.213 Recovery = 100.45%								
Mn 257.610	57169.0	1024	ug/L	26.0	1024	ug/L	26.0	2.54%
QC value within limits for Mn 257.610 Recovery = 102.37%								
Mo 202.031	41257.2	1042	ug/L	21.8	1042	ug/L	21.8	2.10%
QC value within limits for Mo 202.031 Recovery = 104.24%								
Na 589.592	336683.4	24400	ug/L	226.5	24400	ug/L	226.5	0.93%
QC value within limits for Na 589.592 Recovery = 97.59%								
Ni 231.604	64010.3	1049	ug/L	21.9	1049	ug/L	21.9	2.09%
QC value within limits for Ni 231.604 Recovery = 104.95%								
P 213.617	30370.5	4727	ug/L	110.0	4727	ug/L	110.0	2.33%
QC value within limits for P 213.617 Recovery = 94.53%								
Pb 220.353	14792.2	1041	ug/L	3.9	1041	ug/L	3.9	0.37%
QC value within limits for Pb 220.353 Recovery = 104.12%								
Sb 206.836	6007.0	1094	ug/L	7.1	1094	ug/L	7.1	0.65%
QC value within limits for Sb 206.836 Recovery = 109.42%								
Se 196.026	5153.5	993.3	ug/L	8.99	993.3	ug/L	8.99	0.90%
QC value within limits for Se 196.026 Recovery = 99.33%								
Sn 189.927	3804.2	544.1	ug/L	0.94	544.1	ug/L	0.94	0.17%
QC value within limits for Sn 189.927 Recovery = 108.82%								
Sr 421.552	1041400.3	987.8	ug/L	9.63	987.8	ug/L	9.63	0.97%
QC value within limits for Sr 421.552 Recovery = 98.78%								
Ti 337.279	39573.2	957.3	ug/L	24.50	957.3	ug/L	24.50	2.56%
QC value within limits for Ti 337.279 Recovery = 95.73%								
Tl 190.801	6337.6	1017	ug/L	6.7	1017	ug/L	6.7	0.66%
QC value within limits for Tl 190.801 Recovery = 101.70%								
V 292.402	234697.6	1033	ug/L	23.2	1033	ug/L	23.2	2.24%
QC value within limits for V 292.402 Recovery = 103.31%								
Zn 206.200	90111.0	1069	ug/L	21.8	1069	ug/L	21.8	2.04%
QC value within limits for Zn 206.200 Recovery = 106.88%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICB 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/13/12 11:30:30 AM
Data Type: Reprocessed on 11/14/12 11:07:18 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	40.1	0.319	ug/L	1.2307	0.319	ug/L	1.2307	385.44%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	12.8	7.493	ug/L	5.2392	7.493	ug/L	5.2392	69.92%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	6.0	1.264	ug/L	1.5597	1.264	ug/L	1.5597	123.42%
QC value within limits for As 188.979 Recovery = Not calculated								
B	40.8	9.599	ug/L	1.1084	9.599	ug/L	1.1084	11.55%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-13.3	-0.084	ug/L	0.0081	-0.084	ug/L	0.0081	9.72%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-49.2	-0.008	ug/L	0.0097	-0.008	ug/L	0.0097	118.22%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	0.7	0.059	ug/L	1.3560	0.059	ug/L	1.3560	>999.9%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	4.4	0.014	ug/L	0.0073	0.014	ug/L	0.0073	52.99%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	22.8	0.345	ug/L	0.3115	0.345	ug/L	0.3115	90.21%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	9.7	0.073	ug/L	0.2015	0.073	ug/L	0.2015	276.34%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	91.7	0.875	ug/L	0.3493	0.875	ug/L	0.3493	39.93%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	12.4	0.507	ug/L	0.9739	0.507	ug/L	0.9739	192.28%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	53.3	26.02	ug/L	109.022	26.02	ug/L	109.022	419.01%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	12.3	0.627	ug/L	0.8505	0.627	ug/L	0.8505	135.61%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	3.1	0.055	ug/L	0.1367	0.055	ug/L	0.1367	249.83%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	7.7	0.194	ug/L	0.1534	0.194	ug/L	0.1534	78.92%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	141.7	10.27	ug/L	3.866	10.27	ug/L	3.866	37.65%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-0.1	-0.002	ug/L	0.2021	-0.002	ug/L	0.2021	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-1.7	-0.269	ug/L	1.0203	-0.269	ug/L	1.0203	378.91%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	8.5	0.599	ug/L	0.3709	0.599	ug/L	0.3709	61.88%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-0.1	-0.017	ug/L	1.4900	-0.017	ug/L	1.4900	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	1.3	0.252	ug/L	1.7289	0.252	ug/L	1.7289	686.47%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-6.4	-0.922	ug/L	0.2722	-0.922	ug/L	0.2722	29.52%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	19.6	0.019	ug/L	0.0417	0.019	ug/L	0.0417	223.23%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-5.0	-0.120	ug/L	0.1340	-0.120	ug/L	0.1340	111.26%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	4.7	0.757	ug/L	0.4461	0.757	ug/L	0.4461	58.91%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-66.3	-0.284	ug/L	0.0749	-0.284	ug/L	0.0749	26.41%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-18.1	-0.212	ug/L	0.0347	-0.212	ug/L	0.0347	16.39%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 11/13/12 11:39:18 AM
Data Type: Reprocessed on 11/14/12 11:07:20 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	71.4	0.568	ug/L	0.3841	0.568	ug/L	0.3841	67.60%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	323838.2	189600	ug/L	1572.9	189600	ug/L	1572.9	0.83%
QC value within limits for Al 308.215 Recovery = 94.80%								
As 188.979	2.0	0.424	ug/L	1.1273	0.424	ug/L	1.1273	266.06%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2147.9	59.29	ug/L	21.856	59.29	ug/L	21.856	36.86%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	15691.2	9.322	ug/L	2.7655	9.322	ug/L	2.7655	29.67%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-478.6	-0.080	ug/L	0.0023	-0.080	ug/L	0.0023	2.82%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2237030.6	191600	ug/L	1713.3	191600	ug/L	1713.3	0.89%
QC value within limits for Ca 315.887 Recovery = 95.80%								
Cd 214.440	3291.4	-0.598	ug/L	0.1038	-0.598	ug/L	0.1038	17.35%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	327.5	-0.476	ug/L	0.3324	-0.476	ug/L	0.3324	69.77%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-221.9	-0.573	ug/L	0.0584	-0.573	ug/L	0.0584	10.19%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	99.7	0.951	ug/L	0.0820	0.951	ug/L	0.0820	8.62%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4570520.1	178500	ug/L	2933.7	178500	ug/L	2933.7	1.64%
QC value within limits for Fe 273.955 Recovery = 89.26%								
K 766.490	29.8	-99.12	ug/L	69.388	-99.12	ug/L	69.388	70.01%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3652398.9	186600	ug/L	1692.5	186600	ug/L	1692.5	0.91%
QC value within limits for Mg 285.213 Recovery = 93.29%								
Mn 257.610	-11.9	3.498	ug/L	0.8296	3.498	ug/L	0.8296	23.72%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-579.8	-1.073	ug/L	0.3183	-1.073	ug/L	0.3183	29.66%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	44.4	-41.20	ug/L	4.735	-41.20	ug/L	4.735	11.49%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-108.3	0.085	ug/L	0.3504	0.085	ug/L	0.3504	411.01%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-22.2	-3.451	ug/L	2.3706	-3.451	ug/L	2.3706	68.69%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-16.1	-1.135	ug/L	0.5854	-1.135	ug/L	0.5854	51.57%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-17.3	-3.146	ug/L	0.4996	-3.146	ug/L	0.4996	15.88%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-469.9	-3.435	ug/L	4.1145	-3.435	ug/L	4.1145	119.79%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-22.9	-3.272	ug/L	0.3468	-3.272	ug/L	0.3468	10.60%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2353.2	0.860	ug/L	0.1405	0.860	ug/L	0.1405	16.34%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	127.2	-0.268	ug/L	0.8543	-0.268	ug/L	0.8543	319.10%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-3.6	-0.573	ug/L	0.4517	-0.573	ug/L	0.4517	78.78%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	10535.5	0.007	ug/L	0.6032	0.007	ug/L	0.6032	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	935.4	1.914	ug/L	0.0684	1.914	ug/L	0.0684	3.57%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 11/13/12 11:43:25 AM
Data Type: Reprocessed on 11/14/12 11:07:21 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	130908.6	1041	ug/L	15.1	1041	ug/L	15.1	1.45%
QC value within limits for Ag 338.289 Recovery = 104.13%								
Al 308.215	317010.7	185600	ug/L	2409.9	185600	ug/L	2409.9	1.30%
QC value within limits for Al 308.215 Recovery = 92.80%								
As 188.979	2266.7	475.2	ug/L	1.81	475.2	ug/L	1.81	0.38%
QC value within limits for As 188.979 Recovery = 95.04%								
B	-2101.5	58.53	ug/L	3.285	58.53	ug/L	3.285	5.61%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	90497.9	478.3	ug/L	5.41	478.3	ug/L	5.41	1.13%
QC value within limits for Ba 233.527 Recovery = 95.67%								
Be 313.107	2825220.7	472.6	ug/L	5.45	472.6	ug/L	5.45	1.15%
QC value within limits for Be 313.107 Recovery = 94.51%								
Ca 315.887	2186531.6	187300	ug/L	2446.3	187300	ug/L	2446.3	1.31%
QC value within limits for Ca 315.887 Recovery = 93.64%								
Cd 214.440	303594.7	938.9	ug/L	9.95	938.9	ug/L	9.95	1.06%
QC value within limits for Cd 214.440 Recovery = 93.89%								
Co 228.616	31221.2	466.8	ug/L	5.27	466.8	ug/L	5.27	1.13%
QC value within limits for Co 228.616 Recovery = 93.36%								
Cr 267.716	62893.4	477.0	ug/L	3.70	477.0	ug/L	3.70	0.78%
QC value within limits for Cr 267.716 Recovery = 95.41%								
Cu 327.393	51611.3	492.0	ug/L	6.83	492.0	ug/L	6.83	1.39%
QC value within limits for Cu 327.393 Recovery = 98.41%								
Fe 273.955	4480085.7	174900	ug/L	1448.5	174900	ug/L	1448.5	0.83%
QC value within limits for Fe 273.955 Recovery = 87.47%								
K 766.490	63.5	-81.64	ug/L	66.879	-81.64	ug/L	66.879	81.91%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3585094.2	183100	ug/L	2206.0	183100	ug/L	2206.0	1.20%
QC value within limits for Mg 285.213 Recovery = 91.57%								
Mn 257.610	26107.9	470.9	ug/L	0.80	470.9	ug/L	0.80	0.17%
QC value within limits for Mn 257.610 Recovery = 94.17%								
Mo 202.031	19195.9	497.4	ug/L	0.74	497.4	ug/L	0.74	0.15%
QC value within limits for Mo 202.031 Recovery = 99.49%								
Na 589.592	158.0	-33.88	ug/L	12.535	-33.88	ug/L	12.535	36.99%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	57439.9	944.3	ug/L	10.01	944.3	ug/L	10.01	1.06%
QC value within limits for Ni 231.604 Recovery = 94.43%								
P 213.617	7.3	1.141	ug/L	0.9292	1.141	ug/L	0.9292	81.47%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	13554.4	954.1	ug/L	3.49	954.1	ug/L	3.49	0.37%
QC value within limits for Pb 220.353 Recovery = 95.41%								
Sb 206.836	2775.4	505.6	ug/L	1.82	505.6	ug/L	1.82	0.36%
QC value within limits for Sb 206.836 Recovery = 101.11%								
Se 196.026	2048.2	474.8	ug/L	1.56	474.8	ug/L	1.56	0.33%
QC value within limits for Se 196.026 Recovery = 94.95%								
Sn 189.927	-26.3	-3.756	ug/L	2.1963	-3.756	ug/L	2.1963	58.47%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2269.9	0.813	ug/L	0.0677	0.813	ug/L	0.0677	8.32%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	107.7	-0.626	ug/L	0.4432	-0.626	ug/L	0.4432	70.75%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2871.5	460.8	ug/L	0.65	460.8	ug/L	0.65	0.14%
QC value within limits for Tl 190.801 Recovery = 92.16%								
V 292.402	122559.1	497.4	ug/L	6.22	497.4	ug/L	6.22	1.25%
QC value within limits for V 292.402 Recovery = 99.47%								
Zn 206.200	81292.5	951.5	ug/L	8.17	951.5	ug/L	8.17	0.86%
QC value within limits for Zn 206.200 Recovery = 95.15%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/13/12 11:59:34 AM
Data Type: Reprocessed on 11/14/12 11:07:22 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65594.0	521.7	ug/L	2.41	521.7	ug/L	2.41	0.46%
QC value within limits for Ag 338.289 Recovery = 104.35%								
Al 308.215	34344.7	20110	ug/L	248.2	20110	ug/L	248.2	1.23%
QC value within limits for Al 308.215 Recovery = 100.57%								
As 188.979	4818.5	1010	ug/L	1.2	1010	ug/L	1.2	0.12%
QC value within limits for As 188.979 Recovery = 101.01%								
B	4243.1	1060	ug/L	21.0	1060	ug/L	21.0	1.98%
QC value within limits for B Recovery = 106.05%								
Ba 233.527	162615.1	1006	ug/L	4.4	1006	ug/L	4.4	0.44%
QC value within limits for Ba 233.527 Recovery = 100.55%								
Be 313.107	6141152.6	1027	ug/L	4.6	1027	ug/L	4.6	0.44%
QC value within limits for Be 313.107 Recovery = 102.72%								
Ca 315.887	586345.0	50220	ug/L	1076.7	50220	ug/L	1076.7	2.14%
QC value within limits for Ca 315.887 Recovery = 100.44%								
Cd 214.440	331239.6	1035	ug/L	4.1	1035	ug/L	4.1	0.39%
QC value within limits for Cd 214.440 Recovery = 103.52%								
Co 228.616	67524.2	1018	ug/L	5.1	1018	ug/L	5.1	0.51%
QC value within limits for Co 228.616 Recovery = 101.79%								
Cr 267.716	135139.8	1022	ug/L	4.3	1022	ug/L	4.3	0.43%
QC value within limits for Cr 267.716 Recovery = 102.24%								
Cu 327.393	103764.7	989.2	ug/L	4.90	989.2	ug/L	4.90	0.50%
QC value within limits for Cu 327.393 Recovery = 98.92%								
Fe 273.955	519901.4	20220	ug/L	89.0	20220	ug/L	89.0	0.44%
QC value within limits for Fe 273.955 Recovery = 101.12%								
K 766.490	40996.3	20000	ug/L	240.2	20000	ug/L	240.2	1.20%
QC value within limits for K 766.490 Recovery = 99.99%								
Mg 285.213	987140.0	50390	ug/L	960.8	50390	ug/L	960.8	1.91%
QC value within limits for Mg 285.213 Recovery = 100.79%								
Mn 257.610	57287.8	1024	ug/L	12.5	1024	ug/L	12.5	1.22%
QC value within limits for Mn 257.610 Recovery = 102.43%								
Mo 202.031	42069.2	1062	ug/L	2.8	1062	ug/L	2.8	0.26%
QC value within limits for Mo 202.031 Recovery = 106.24%								
Na 589.592	343135.9	24860	ug/L	495.2	24860	ug/L	495.2	1.99%
QC value within limits for Na 589.592 Recovery = 99.46%								
Ni 231.604	62636.0	1027	ug/L	4.6	1027	ug/L	4.6	0.45%
QC value within limits for Ni 231.604 Recovery = 102.68%								
P 213.617	32347.8	5034	ug/L	16.4	5034	ug/L	16.4	0.33%
QC value within limits for P 213.617 Recovery = 100.69%								
Pb 220.353	14653.1	1031	ug/L	1.1	1031	ug/L	1.1	0.11%
QC value within limits for Pb 220.353 Recovery = 103.14%								
Sb 206.836	5804.1	1057	ug/L	4.6	1057	ug/L	4.6	0.43%
QC value within limits for Sb 206.836 Recovery = 105.73%								
Se 196.026	5277.2	1014	ug/L	1.9	1014	ug/L	1.9	0.19%
QC value within limits for Se 196.026 Recovery = 101.37%								
Sn 189.927	7379.4	1055	ug/L	6.5	1055	ug/L	6.5	0.62%
QC value within limits for Sn 189.927 Recovery = 105.54%								
Sr 421.552	1050412.9	996.3	ug/L	20.55	996.3	ug/L	20.55	2.06%
QC value within limits for Sr 421.552 Recovery = 99.63%								
Ti 337.279	43415.4	1050	ug/L	14.4	1050	ug/L	14.4	1.38%
QC value within limits for Ti 337.279 Recovery = 104.99%								
Tl 190.801	6391.4	1026	ug/L	2.1	1026	ug/L	2.1	0.21%
QC value within limits for Tl 190.801 Recovery = 102.56%								
V 292.402	233769.6	1030	ug/L	4.1	1030	ug/L	4.1	0.39%
QC value within limits for V 292.402 Recovery = 103.04%								
Zn 206.200	88376.4	1049	ug/L	6.2	1049	ug/L	6.2	0.59%
QC value within limits for Zn 206.200 Recovery = 104.87%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/13/12 12:03:39 PM
Data Type: Reprocessed on 11/14/12 11:07:23 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	35.4	0.281	ug/L	0.0799	0.281	ug/L	0.0799	28.37%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	5.8	3.382	ug/L	4.1797	3.382	ug/L	4.1797	123.59%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	6.9	1.447	ug/L	1.3960	1.447	ug/L	1.3960	96.49%
QC value within limits for As 188.979 Recovery = Not calculated								
B	43.3	10.22	ug/L	0.817	10.22	ug/L	0.817	7.99%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	9.1	0.054	ug/L	0.1189	0.054	ug/L	0.1189	220.99%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	77.1	0.013	ug/L	0.0216	0.013	ug/L	0.0216	167.19%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	27.0	2.308	ug/L	1.6486	2.308	ug/L	1.6486	71.42%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	31.5	0.099	ug/L	0.0490	0.099	ug/L	0.0490	49.69%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	14.6	0.222	ug/L	0.0781	0.222	ug/L	0.0781	35.18%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	21.3	0.161	ug/L	0.2210	0.161	ug/L	0.2210	137.49%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	164.7	1.571	ug/L	0.3599	1.571	ug/L	0.3599	22.91%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	127.9	5.002	ug/L	0.1708	5.002	ug/L	0.1708	3.41%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	155.7	76.03	ug/L	21.022	76.03	ug/L	21.022	27.65%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	40.4	2.067	ug/L	0.2313	2.067	ug/L	0.2313	11.19%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	6.9	0.124	ug/L	0.0792	0.124	ug/L	0.0792	63.66%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	13.9	0.350	ug/L	0.0932	0.350	ug/L	0.0932	26.60%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	37.9	2.717	ug/L	4.1584	2.717	ug/L	4.1584	153.06%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	1.3	0.020	ug/L	0.1609	0.020	ug/L	0.1609	800.00%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	4.1	0.643	ug/L	0.3537	0.643	ug/L	0.3537	54.98%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	8.2	0.579	ug/L	0.4223	0.579	ug/L	0.4223	72.90%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	2.1	0.376	ug/L	0.3628	0.376	ug/L	0.3628	96.50%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-5.7	-1.092	ug/L	2.6185	-1.092	ug/L	2.6185	239.86%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	7.5	1.067	ug/L	0.3965	1.067	ug/L	0.3965	37.15%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	207.0	0.197	ug/L	0.0971	0.197	ug/L	0.0971	49.40%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-19.8	-0.480	ug/L	0.3566	-0.480	ug/L	0.3566	74.28%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2.3	0.366	ug/L	0.1330	0.366	ug/L	0.1330	36.36%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-29.9	-0.124	ug/L	0.1303	-0.124	ug/L	0.1303	105.44%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	11.9	0.143	ug/L	0.1010	0.143	ug/L	0.1010	70.80%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 106
Sample ID: CCV1 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 11/13/12 7:43:35 PM
Data Type: Reprocessed on 11/14/12 11:09:03 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	64624.3	514.0	ug/L	3.85	514.0	ug/L	3.85	0.75%
QC value within limits for Ag 338.289 Recovery = 102.81%								
Al 308.215	33622.5	19690	ug/L	133.1	19690	ug/L	133.1	0.68%
QC value within limits for Al 308.215 Recovery = 98.46%								
As 188.979	4916.8	1031	ug/L	4.1	1031	ug/L	4.1	0.40%
QC value within limits for As 188.979 Recovery = 103.07%								
B	3756.6	946.6	ug/L	8.00	946.6	ug/L	8.00	0.84%
QC value within limits for B Recovery = 94.66%								
Ba 233.527	163572.1	1011	ug/L	3.9	1011	ug/L	3.9	0.38%
QC value within limits for Ba 233.527 Recovery = 101.14%								
Be 313.107	6157333.1	1030	ug/L	8.9	1030	ug/L	8.9	0.86%
QC value within limits for Be 313.107 Recovery = 102.99%								
Ca 315.887	569350.9	48760	ug/L	583.8	48760	ug/L	583.8	1.20%
QC value within limits for Ca 315.887 Recovery = 97.53%								
Cd 214.440	333366.1	1042	ug/L	3.0	1042	ug/L	3.0	0.29%
QC value within limits for Cd 214.440 Recovery = 104.19%								
Co 228.616	68255.3	1029	ug/L	4.1	1029	ug/L	4.1	0.40%
QC value within limits for Co 228.616 Recovery = 102.91%								
Cr 267.716	136137.8	1030	ug/L	3.0	1030	ug/L	3.0	0.29%
QC value within limits for Cr 267.716 Recovery = 103.00%								
Cu 327.393	103924.8	990.8	ug/L	3.69	990.8	ug/L	3.69	0.37%
QC value within limits for Cu 327.393 Recovery = 99.08%								
Fe 273.955	523916.8	20380	ug/L	71.1	20380	ug/L	71.1	0.35%
QC value within limits for Fe 273.955 Recovery = 101.90%								
K 766.490	43081.6	21020	ug/L	166.2	21020	ug/L	166.2	0.79%
QC value within limits for K 766.490 Recovery = 105.08%								
Mg 285.213	922297.9	47090	ug/L	503.1	47090	ug/L	503.1	1.07%
QC value within limits for Mg 285.213 Recovery = 94.17%								
Mn 257.610	54883.0	981.4	ug/L	9.18	981.4	ug/L	9.18	0.94%
QC value within limits for Mn 257.610 Recovery = 98.14%								
Mo 202.031	42480.5	1073	ug/L	4.4	1073	ug/L	4.4	0.41%
QC value within limits for Mo 202.031 Recovery = 107.28%								
Na 589.592	361799.9	26220	ug/L	240.9	26220	ug/L	240.9	0.92%
QC value within limits for Na 589.592 Recovery = 104.87%								
Ni 231.604	63122.9	1035	ug/L	3.6	1035	ug/L	3.6	0.35%
QC value within limits for Ni 231.604 Recovery = 103.48%								
P 213.617	32538.2	5064	ug/L	15.7	5064	ug/L	15.7	0.31%
QC value within limits for P 213.617 Recovery = 101.28%								
Pb 220.353	14977.8	1054	ug/L	3.5	1054	ug/L	3.5	0.33%
QC value within limits for Pb 220.353 Recovery = 105.43%								
Sb 206.836	5994.7	1092	ug/L	2.1	1092	ug/L	2.1	0.19%
QC value within limits for Sb 206.836 Recovery = 109.20%								
Se 196.026	5428.1	1043	ug/L	4.7	1043	ug/L	4.7	0.45%
QC value within limits for Se 196.026 Recovery = 104.27%								
Sn 189.927	8092.5	1157	ug/L	7.9	1157	ug/L	7.9	0.68%
QC value greater than the upper limit for Sn 189.927 Recovery = 115.74%								
Sr 421.552	1059610.4	1005	ug/L	10.4	1005	ug/L	10.4	1.04%
QC value within limits for Sr 421.552 Recovery = 100.50%								
Ti 337.279	41178.7	995.8	ug/L	8.35	995.8	ug/L	8.35	0.84%
QC value within limits for Ti 337.279 Recovery = 99.58%								
Tl 190.801	6255.2	1004	ug/L	3.3	1004	ug/L	3.3	0.33%
QC value within limits for Tl 190.801 Recovery = 100.38%								
V 292.402	236985.1	1045	ug/L	4.2	1045	ug/L	4.2	0.40%
QC value within limits for V 292.402 Recovery = 104.45%								
Zn 206.200	89450.7	1061	ug/L	4.1	1061	ug/L	4.1	0.39%
QC value within limits for Zn 206.200 Recovery = 106.14%								

QC Failed. Continue with analysis.

Sequence No.: 107
Sample ID: CCB 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/13/12 7:47:39 PM
Data Type: Reprocessed on 11/14/12 11:09:04 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	10.5	0.084	ug/L	0.3244	0.084	ug/L	0.3244	388.48%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	4.2	2.464	ug/L	6.9834	2.464	ug/L	6.9834	283.45%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	2.0	0.415	ug/L	0.0434	0.415	ug/L	0.0434	10.45%
QC value within limits for As 188.979 Recovery = Not calculated								
B	33.8	7.964	ug/L	2.1102	7.964	ug/L	2.1102	26.50%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	19.2	0.117	ug/L	0.0663	0.117	ug/L	0.0663	56.43%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-934.9	-0.156	ug/L	0.0193	-0.156	ug/L	0.0193	12.34%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	198.7	17.00	ug/L	0.527	17.00	ug/L	0.527	3.10%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	4.4	0.013	ug/L	0.0289	0.013	ug/L	0.0289	214.60%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	30.7	0.463	ug/L	0.1154	0.463	ug/L	0.1154	24.92%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	0.0	-0.001	ug/L	0.0678	-0.001	ug/L	0.0678	>999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	28.1	0.268	ug/L	0.2496	0.268	ug/L	0.2496	93.13%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	107.1	4.209	ug/L	0.5676	4.209	ug/L	0.5676	13.49%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	81.0	39.67	ug/L	145.423	39.67	ug/L	145.423	366.61%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	23.1	1.177	ug/L	0.8706	1.177	ug/L	0.8706	73.99%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	0.1	0.002	ug/L	0.1229	0.002	ug/L	0.1229	>999.9%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	0.6	0.015	ug/L	0.2495	0.015	ug/L	0.2495	>999.9%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	6804.3	493.5	ug/L	36.86	493.5	ug/L	36.86	7.47%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-7.5	-0.124	ug/L	0.0432	-0.124	ug/L	0.0432	34.78%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-22.6	-3.514	ug/L	1.0087	-3.514	ug/L	1.0087	28.70%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-3.1	-0.221	ug/L	0.4725	-0.221	ug/L	0.4725	214.27%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-8.3	-1.506	ug/L	0.2339	-1.506	ug/L	0.2339	15.53%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-4.1	-0.788	ug/L	1.5598	-0.788	ug/L	1.5598	197.85%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-2.2	-0.308	ug/L	0.2379	-0.308	ug/L	0.2379	77.35%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	104.1	0.098	ug/L	0.0891	0.098	ug/L	0.0891	90.96%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-4.2	-0.101	ug/L	0.3859	-0.101	ug/L	0.3859	382.31%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	7.9	1.260	ug/L	0.1359	1.260	ug/L	0.1359	10.78%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-88.7	-0.386	ug/L	0.0621	-0.386	ug/L	0.0621	16.10%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-87.9	-1.028	ug/L	0.2444	-1.028	ug/L	0.2444	23.78%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 117
Sample ID: CCV2 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 11/13/12 8:37:44 PM
Data Type: Reprocessed on 11/14/12 11:09:14 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	44877.2	357.0	ug/L	1.51	357.0	ug/L	1.51	0.42%
QC value within limits for Ag 338.289 Recovery = 95.19%								
Al 308.215	22420.3	13130	ug/L	62.7	13130	ug/L	62.7	0.48%
QC value less than the lower limit for Al 308.215 Recovery = 87.54%								
As 188.979	3323.6	696.8	ug/L	3.09	696.8	ug/L	3.09	0.44%
QC value within limits for As 188.979 Recovery = 92.90%								
B	2447.1	618.4	ug/L	6.69	618.4	ug/L	6.69	1.08%
QC value less than the lower limit for B Recovery = 82.46%								
Ba 233.527	111466.4	689.3	ug/L	1.82	689.3	ug/L	1.82	0.26%
QC value within limits for Ba 233.527 Recovery = 91.90%								
Be 313.107	4210473.4	704.3	ug/L	7.36	704.3	ug/L	7.36	1.05%
QC value within limits for Be 313.107 Recovery = 93.90%								
Ca 315.887	375312.7	32150	ug/L	781.9	32150	ug/L	781.9	2.43%
QC value less than the lower limit for Ca 315.887 Recovery = 85.72%								
Cd 214.440	228957.9	715.6	ug/L	2.28	715.6	ug/L	2.28	0.32%
QC value within limits for Cd 214.440 Recovery = 95.41%								
Co 228.616	46753.5	705.1	ug/L	4.18	705.1	ug/L	4.18	0.59%
QC value within limits for Co 228.616 Recovery = 94.01%								
Cr 267.716	93804.1	709.7	ug/L	1.57	709.7	ug/L	1.57	0.22%
QC value within limits for Cr 267.716 Recovery = 94.63%								
Cu 327.393	71135.1	678.2	ug/L	2.38	678.2	ug/L	2.38	0.35%
QC value within limits for Cu 327.393 Recovery = 90.42%								
Fe 273.955	355612.1	13830	ug/L	56.8	13830	ug/L	56.8	0.41%
QC value within limits for Fe 273.955 Recovery = 92.22%								
K 766.490	29604.7	14440	ug/L	283.0	14440	ug/L	283.0	1.96%
QC value within limits for K 766.490 Recovery = 96.28%								
Mg 285.213	615961.9	31450	ug/L	670.4	31450	ug/L	670.4	2.13%
QC value less than the lower limit for Mg 285.213 Recovery = 83.86%								
Mn 257.610	36498.3	652.7	ug/L	2.84	652.7	ug/L	2.84	0.44%
QC value less than the lower limit for Mn 257.610 Recovery = 87.02%								
Mo 202.031	30045.5	758.7	ug/L	2.03	758.7	ug/L	2.03	0.27%
QC value within limits for Mo 202.031 Recovery = 101.16%								
Na 589.592	239904.7	17380	ug/L	391.6	17380	ug/L	391.6	2.25%
QC value within limits for Na 589.592 Recovery = 92.72%								
Ni 231.604	43536.8	713.7	ug/L	1.87	713.7	ug/L	1.87	0.26%
QC value within limits for Ni 231.604 Recovery = 95.17%								
P 213.617	22925.9	3568	ug/L	9.9	3568	ug/L	9.9	0.28%
QC value within limits for P 213.617 Recovery = 95.15%								
Pb 220.353	10202.5	718.1	ug/L	2.40	718.1	ug/L	2.40	0.33%
QC value within limits for Pb 220.353 Recovery = 95.75%								
Sb 206.836	4029.5	734.0	ug/L	4.74	734.0	ug/L	4.74	0.65%
QC value within limits for Sb 206.836 Recovery = 97.87%								
Se 196.026	3666.8	704.4	ug/L	1.31	704.4	ug/L	1.31	0.19%
QC value within limits for Se 196.026 Recovery = 93.92%								
Sn 189.927	5494.0	785.8	ug/L	6.32	785.8	ug/L	6.32	0.80%
QC value within limits for Sn 189.927 Recovery = 104.77%								
Sr 421.552	712213.9	675.5	ug/L	17.27	675.5	ug/L	17.27	2.56%
QC value within limits for Sr 421.552 Recovery = 90.07%								
Ti 337.279	27209.4	658.0	ug/L	0.62	658.0	ug/L	0.62	0.09%
QC value less than the lower limit for Ti 337.279 Recovery = 87.73%								
Tl 190.801	4212.3	675.9	ug/L	4.59	675.9	ug/L	4.59	0.68%
QC value within limits for Tl 190.801 Recovery = 90.13%								
V 292.402	162689.2	717.5	ug/L	1.92	717.5	ug/L	1.92	0.27%
QC value within limits for V 292.402 Recovery = 95.66%								
Zn 206.200	61356.7	728.1	ug/L	3.16	728.1	ug/L	3.16	0.43%
QC value within limits for Zn 206.200 Recovery = 97.08%								

QC Failed. Continue with analysis.

Sequence No.: 118
Sample ID: CCB 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/13/12 8:41:12 PM
Data Type: Reprocessed on 11/14/12 11:09:15 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	63.6	0.505	ug/L	0.8277	0.505	ug/L	0.8277	163.75%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-2.9	-1.692	ug/L	0.9873	-1.692	ug/L	0.9873	58.35%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	10.6	2.225	ug/L	0.4209	2.225	ug/L	0.4209	18.92%
QC value within limits for As 188.979 Recovery = Not calculated								
B	23.9	5.629	ug/L	0.9406	5.629	ug/L	0.9406	16.71%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	52.0	0.323	ug/L	0.0335	0.323	ug/L	0.0335	10.36%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-1054.7	-0.176	ug/L	0.0172	-0.176	ug/L	0.0172	9.77%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	160.7	13.76	ug/L	0.384	13.76	ug/L	0.384	2.79%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	93.3	0.292	ug/L	0.0173	0.292	ug/L	0.0173	5.95%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	25.9	0.390	ug/L	0.1433	0.390	ug/L	0.1433	36.72%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-32.8	-0.248	ug/L	0.1090	-0.248	ug/L	0.1090	43.94%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	16.1	0.153	ug/L	0.5535	0.153	ug/L	0.5535	361.68%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	40.7	1.600	ug/L	0.5821	1.600	ug/L	0.5821	36.37%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	169.2	82.64	ug/L	57.644	82.64	ug/L	57.644	69.75%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	17.6	0.895	ug/L	0.8104	0.895	ug/L	0.8104	90.53%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-19.1	-0.341	ug/L	0.1124	-0.341	ug/L	0.1124	32.93%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-2.9	-0.073	ug/L	0.1585	-0.073	ug/L	0.1585	218.24%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	874.1	63.36	ug/L	5.416	63.36	ug/L	5.416	8.55%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-19.5	-0.321	ug/L	0.1014	-0.321	ug/L	0.1014	31.55%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	99.0	15.41	ug/L	1.241	15.41	ug/L	1.241	8.05%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	6.2	0.434	ug/L	0.6091	0.434	ug/L	0.6091	140.40%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-7.1	-1.288	ug/L	0.2903	-1.288	ug/L	0.2903	22.53%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-12.5	-2.379	ug/L	0.9482	-2.379	ug/L	0.9482	39.86%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-12.4	-1.768	ug/L	1.1727	-1.768	ug/L	1.1727	66.32%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	0.2	0.000	ug/L	0.1293	0.000	ug/L	0.1293	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-3.7	-0.089	ug/L	0.0547	-0.089	ug/L	0.0547	61.42%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.9	1.429	ug/L	0.6463	1.429	ug/L	0.6463	45.24%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-40.2	-0.178	ug/L	0.1213	-0.178	ug/L	0.1213	68.16%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	5.6	0.064	ug/L	0.3277	0.064	ug/L	0.3277	509.64%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 1
Sample ID: CalBlk 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/27/12 3:48:30 PM
Data Type: Reprocessed on 11/28/12 2:44:35 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CalBlk 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-169.3	80.96	47.83%	[0.00]	ug/L
Al 308.215	164.3	7.46	4.54%	[0.00]	ug/L
As 188.979	-3.1	9.45	309.37%	[0.00]	ug/L
B	18.1	6.49	35.84%	[0.00]	ug/L
Ba 233.527	133.0	4.33	3.25%	[0.00]	ug/L
Be 313.107	1663.5	69.78	4.19%	[0.00]	ug/L
Ca 315.887	-433.4	19.15	4.42%	[0.00]	ug/L
Cd 214.440	434.8	11.01	2.53%	[0.00]	ug/L
Co 228.616	78.4	5.02	6.39%	[0.00]	ug/L
Cr 267.716	718.1	13.21	1.84%	[0.00]	ug/L
Cu 327.393	-28.3	43.22	152.54%	[0.00]	ug/L
Fe 273.955	270.4	10.79	3.99%	[0.00]	ug/L
K 766.490	-517.6	66.47	12.84%	[0.00]	ug/L
Mg 285.213	-118.8	12.09	10.17%	[0.00]	ug/L
Mn 257.610	-67.2	6.99	10.41%	[0.00]	ug/L
Mo 202.031	186.8	4.87	2.60%	[0.00]	ug/L
Na 589.592	75.4	113.18	150.04%	[0.00]	ug/L
Ni 231.604	-205.5	16.19	7.88%	[0.00]	ug/L
P 213.617	54.5	8.99	16.50%	[0.00]	ug/L
Pb 220.353	-37.2	4.02	10.81%	[0.00]	ug/L
Sb 206.836	2.4	1.46	59.88%	[0.00]	ug/L
Se 196.026	3.9	7.90	201.02%	[0.00]	ug/L
Sn 189.927	-9.5	2.55	27.02%	[0.00]	ug/L
Sr 421.552	1122.3	95.33	8.49%	[0.00]	ug/L
Ti 337.279	-430.8	17.23	4.00%	[0.00]	ug/L
Tl 190.801	-8.7	1.65	18.92%	[0.00]	ug/L
V 292.402	-683.5	86.70	12.69%	[0.00]	ug/L
Zn 206.200	-571.4	8.33	1.46%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/27/12 3:52:33 PM
Data Type: Reprocessed on 11/28/12 2:44:37 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	103.0	169.03	164.13%	[1.00]	ug/L
Al 308.215	191.5	12.31	6.43%	[100.00]	ug/L
As 188.979	19.2	4.20	21.83%	[3.50]	ug/L
B	223.4	7.45	3.34%	[50.00]	ug/L
Ba 233.527	939.4	15.45	1.65%	[5.00]	ug/L
Be 313.107	14451.2	266.08	1.84%	[2.00]	ug/L
Ca 315.887	1602.3	10.75	0.67%	[100.00]	ug/L
Cd 214.440	2219.6	9.39	0.42%	[5.00]	ug/L
Co 228.616	403.7	14.68	3.64%	[5.00]	ug/L
Cr 267.716	825.9	17.01	2.06%	[5.00]	ug/L
Cu 327.393	503.7	61.74	12.26%	[5.00]	ug/L
Fe 273.955	1530.5	27.06	1.77%	[50.00]	ug/L
K 766.490	2102.1	130.80	6.22%	[1000.00]	ug/L
Mg 285.213	1144.9	10.71	0.94%	[50]	ug/L
Mn 257.610	316.8	4.90	1.55%	[5.00]	ug/L
Mo 202.031	238.5	14.41	6.04%	[5.00]	ug/L
Na 589.592	14671.9	190.00	1.30%	[1000.00]	ug/L
Ni 231.604	400.3	5.24	1.31%	[5.00]	ug/L
P 213.617	189.6	3.21	1.69%	[25.00]	ug/L
Pb 220.353	60.8	8.19	13.48%	[3.00]	ug/L
Sb 206.836	34.9	4.64	13.27%	[5.00]	ug/L
Se 196.026	20.3	4.48	22.11%	[5.00]	ug/L
Sn 189.927	36.2	3.98	11.01%	[5.00]	ug/L
Sr 421.552	5714.0	80.89	1.42%	[5.00]	ug/L
Ti 337.279	234.0	15.40	6.58%	[5.00]	ug/L
Tl 190.801	33.9	3.11	9.18%	[5.00]	ug/L
V 292.402	1287.7	62.62	4.86%	[5.00]	ug/L
Zn 206.200	2375.9	15.46	0.65%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/27/12 3:56:43 PM
Data Type: Reprocessed on 11/28/12 2:44:38 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	64495.2	897.33	1.39%	[500.0]	ug/L
Al 308.215	36968.3	313.85	0.85%	[20000.00]	ug/L
As 188.979	5469.6	20.87	0.38%	[1000.00]	ug/L
B	4253.0	55.71	1.31%	[1000.00]	ug/L
Ba 233.527	173659.4	1999.84	1.15%	[1000.00]	ug/L
Be 313.107	6766569.4	49112.68	0.73%	[1000.00]	ug/L
Ca 315.887	672637.1	6294.51	0.94%	[50000]	ug/L
Cd 214.440	394267.4	5218.50	1.32%	[1000.00]	ug/L
Co 228.616	73125.5	1050.77	1.44%	[1000.00]	ug/L
Cr 267.716	151332.1	1619.50	1.07%	[1000.00]	ug/L
Cu 327.393	103474.9	974.44	0.94%	[1000.00]	ug/L
Fe 273.955	565515.9	7005.08	1.24%	[20000]	ug/L
K 766.490	47358.3	584.83	1.23%	[20000]	ug/L
Mg 285.213	1058864.8	7554.84	0.71%	[50000]	ug/L
Mn 257.610	57872.3	600.72	1.04%	[1000.00]	ug/L
Mo 202.031	47622.3	265.85	0.56%	[1000.00]	ug/L
Na 589.592	341888.7	2613.78	0.76%	[25000]	ug/L
Ni 231.604	68927.7	786.56	1.14%	[1000.00]	ug/L
P 213.617	38163.6	315.34	0.83%	[5000]	ug/L
Pb 220.353	16028.8	201.25	1.26%	[1000.00]	ug/L
Sb 206.836	6837.4	46.21	0.68%	[1000.00]	ug/L
Se 196.026	5186.5	19.59	0.38%	[1000.00]	ug/L
Sn 189.927	8160.9	31.69	0.39%	[1000.00]	ug/L
Sr 421.552	1055752.6	9626.81	0.91%	[1000.00]	ug/L
Ti 337.279	47617.0	610.30	1.28%	[1000.00]	ug/L
Tl 190.801	7012.5	74.30	1.06%	[1000.00]	ug/L
V 292.402	248746.7	2860.97	1.15%	[1000.00]	ug/L
Zn 206.200	98555.6	1301.89	1.32%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 11/27/12 3:59:10 PM
Data Type: Reprocessed on 11/28/12 2:44:39 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	126082.8	2496.37	1.98%	[1000.00]	ug/L
Al 308.215	73201.9	305.10	0.42%	[40000.00]	ug/L
As 188.979	10736.6	95.39	0.89%	[2000.00]	ug/L
B	8463.0	57.24	0.68%	[2000.00]	ug/L
Ba 233.527	335614.6	1964.74	0.59%	[2000.00]	ug/L
Be 313.107	12803933.0	126113.14	0.98%	[2000.00]	ug/L
Ca 315.887	1315440.7	3190.36	0.24%	[100000.0]	ug/L
Cd 214.440	750445.8	4443.82	0.59%	[2000.00]	ug/L
Co 228.616	140817.7	886.11	0.63%	[2000.00]	ug/L
Cr 267.716	291229.2	1711.31	0.59%	[2000.00]	ug/L
Cu 327.393	203006.8	2541.48	1.25%	[2000.00]	ug/L
Fe 273.955	1087559.9	6892.75	0.63%	[40000]	ug/L
K 766.490	94745.2	138.23	0.15%	[40000]	ug/L
Mg 285.213	2054006.6	4931.44	0.24%	[100000]	ug/L
Mn 257.610	112761.8	483.22	0.43%	[2000.00]	ug/L
Mo 202.031	89928.8	722.27	0.80%	[2000.00]	ug/L
Na 589.592	674862.4	1399.20	0.21%	[50000]	ug/L
Ni 231.604	131594.3	1027.50	0.78%	[2000.00]	ug/L
P 213.617	72519.9	788.11	1.09%	[10000]	ug/L
Pb 220.353	30830.2	357.58	1.16%	[2000.00]	ug/L
Sb 206.836	13355.0	102.34	0.77%	[2000.00]	ug/L
Se 196.026	10070.0	67.85	0.67%	[2000.00]	ug/L
Sn 189.927	15851.8	239.60	1.51%	[2000.00]	ug/L
Sr 421.552	2085351.6	3545.37	0.17%	[2000.00]	ug/L
Ti 337.279	94083.3	443.81	0.47%	[2000.00]	ug/L
Tl 190.801	13555.2	88.59	0.65%	[2000.00]	ug/L
V 292.402	482856.5	3689.23	0.76%	[2000.00]	ug/L
Zn 206.200	187001.4	1134.27	0.61%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	126.7	0.00000	0.999958	
Al 308.215	3	Lin Thru 0	0.0	1.834	0.00000	0.999992	
As 188.979	3	Lin Thru 0	0.0	5.389	0.00000	0.999972	
B	3	Lin Thru 0	0.0	4.236	0.00000	0.999997	
Ba 233.527	3	Lin Thru 0	0.0	169.0	0.00000	0.999904	
Be 313.107	3	Lin Thru 0	0.0	6475	0.00000	0.999746	
Ca 315.887	3	Lin Thru 0	0.0	13.21	0.00000	0.999959	
Cd 214.440	3	Lin Thru 0	0.0	379.0	0.00000	0.999798	
Co 228.616	3	Lin Thru 0	0.0	70.95	0.00000	0.999883	
Cr 267.716	3	Lin Thru 0	0.0	146.8	0.00000	0.999879	
Cu 327.393	3	Lin Thru 0	0.0	101.9	0.00000	0.999970	
Fe 273.955	3	Lin Thru 0	0.0	27.41	0.00000	0.999874	
K 766.490	3	Lin Thru 0	0.0	2.368	0.00000	0.999997	
Mg 285.213	3	Lin Thru 0	0.0	20.67	0.00000	0.999924	
Mn 257.610	3	Lin Thru 0	0.0	56.68	0.00000	0.999945	
Mo 202.031	3	Lin Thru 0	0.0	45.50	0.00000	0.999727	
Na 589.592	3	Lin Thru 0	0.0	13.53	0.00000	0.999985	
Ni 231.604	3	Lin Thru 0	0.0	66.42	0.00000	0.999822	
P 213.617	3	Lin Thru 0	0.0	7.328	0.00000	0.999784	
Pb 220.353	3	Lin Thru 0	0.0	15.54	0.00000	0.999875	
Sb 206.836	3	Lin Thru 0	0.0	6.709	0.00000	0.999955	
Se 196.026	3	Lin Thru 0	0.0	5.065	0.00000	0.999928	
Sn 189.927	3	Lin Thru 0	0.0	7.973	0.00000	0.999930	
Sr 421.552	3	Lin Thru 0	0.0	1045	0.00000	0.999987	
Ti 337.279	3	Lin Thru 0	0.0	47.16	0.00000	0.999988	
Tl 190.801	3	Lin Thru 0	0.0	6.825	0.00000	0.999905	

V 292.402	3	Lin Thru 0	0.0	242.9	0.00000	0.999927
Zn 206.200	3	Lin Thru 0	0.0	94.51	0.00000	0.999769

Sequence No.: 5
Sample ID: ICV 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 11/27/12 4:03:51 PM
Data Type: Reprocessed on 11/28/12 2:44:40 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	66057.3	521.5	ug/L	5.55	521.5	ug/L	5.55	1.06%
QC value within limits for Ag 338.289 Recovery = 104.30%								
Al 308.215	45926.4	25060	ug/L	121.2	25060	ug/L	121.2	0.48%
QC value within limits for Al 308.215 Recovery = 100.23%								
As 188.979	5398.0	1002	ug/L	10.8	1002	ug/L	10.8	1.07%
QC value within limits for As 188.979 Recovery = 100.18%								
B	4256.2	1086	ug/L	4.8	1086	ug/L	4.8	0.44%
QC value within limits for B Recovery = 108.61%								
Ba 233.527	175577.5	1025	ug/L	8.1	1025	ug/L	8.1	0.79%
QC value within limits for Ba 233.527 Recovery = 102.47%								
Be 313.107	6845198.3	1057	ug/L	12.6	1057	ug/L	12.6	1.19%
QC value within limits for Be 313.107 Recovery = 105.72%								
Ca 315.887	343519.7	25990	ug/L	417.3	25990	ug/L	417.3	1.61%
QC value within limits for Ca 315.887 Recovery = 103.94%								
Cd 214.440	403059.9	1063	ug/L	7.6	1063	ug/L	7.6	0.71%
QC value within limits for Cd 214.440 Recovery = 106.28%								
Co 228.616	75372.3	1061	ug/L	8.1	1061	ug/L	8.1	0.77%
QC value within limits for Co 228.616 Recovery = 106.13%								
Cr 267.716	154704.8	1055	ug/L	7.5	1055	ug/L	7.5	0.71%
QC value within limits for Cr 267.716 Recovery = 105.53%								
Cu 327.393	103211.4	1013	ug/L	9.0	1013	ug/L	9.0	0.88%
QC value within limits for Cu 327.393 Recovery = 101.29%								
Fe 273.955	714672.0	25990	ug/L	192.2	25990	ug/L	192.2	0.74%
QC value within limits for Fe 273.955 Recovery = 103.96%								
K 766.490	59271.3	25010	ug/L	216.6	25010	ug/L	216.6	0.87%
QC value within limits for K 766.490 Recovery = 100.06%								
Mg 285.213	540582.1	26190	ug/L	390.7	26190	ug/L	390.7	1.49%
QC value within limits for Mg 285.213 Recovery = 104.74%								
Mn 257.610	59403.3	1048	ug/L	7.1	1048	ug/L	7.1	0.68%
QC value within limits for Mn 257.610 Recovery = 104.84%								
Mo 202.031	47439.2	1045	ug/L	4.5	1045	ug/L	4.5	0.43%
QC value within limits for Mo 202.031 Recovery = 104.54%								
Na 589.592	346094.0	25550	ug/L	400.3	25550	ug/L	400.3	1.57%
QC value within limits for Na 589.592 Recovery = 102.21%								
Ni 231.604	71998.6	1082	ug/L	6.0	1082	ug/L	6.0	0.55%
QC value within limits for Ni 231.604 Recovery = 108.17%								
P 213.617	36644.7	5001	ug/L	8.2	5001	ug/L	8.2	0.16%
QC value within limits for P 213.617 Recovery = 100.01%								
Pb 220.353	16583.0	1067	ug/L	8.8	1067	ug/L	8.8	0.83%
QC value within limits for Pb 220.353 Recovery = 106.73%								
Sb 206.836	6764.6	1008	ug/L	4.4	1008	ug/L	4.4	0.44%
QC value within limits for Sb 206.836 Recovery = 100.82%								
Se 196.026	5177.2	1022	ug/L	11.1	1022	ug/L	11.1	1.09%
QC value within limits for Se 196.026 Recovery = 102.21%								
Sn 189.927	4225.7	530.0	ug/L	9.37	530.0	ug/L	9.37	1.77%
QC value within limits for Sn 189.927 Recovery = 106.00%								
Sr 421.552	1061344.7	1015	ug/L	17.4	1015	ug/L	17.4	1.72%
QC value within limits for Sr 421.552 Recovery = 101.51%								
Ti 337.279	46254.5	980.4	ug/L	5.28	980.4	ug/L	5.28	0.54%
QC value within limits for Ti 337.279 Recovery = 98.04%								
Tl 190.801	7099.8	1040	ug/L	2.3	1040	ug/L	2.3	0.22%
QC value within limits for Tl 190.801 Recovery = 104.03%								
V 292.402	252783.9	1058	ug/L	6.9	1058	ug/L	6.9	0.66%
QC value within limits for V 292.402 Recovery = 105.83%								
Zn 206.200	102304.4	1092	ug/L	7.3	1092	ug/L	7.3	0.67%
QC value within limits for Zn 206.200 Recovery = 109.22%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICB 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/27/12 4:06:46 PM
Data Type: Reprocessed on 11/28/12 2:44:41 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	56.8	0.448	ug/L	1.1195	0.448	ug/L	1.1195	249.68%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-16.2	-8.886	ug/L	13.8414	-8.886	ug/L	13.8414	155.76%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	6.4	1.196	ug/L	0.0469	1.196	ug/L	0.0469	3.92%
QC value within limits for As 188.979 Recovery = Not calculated								
B	82.9	19.57	ug/L	0.897	19.57	ug/L	0.897	4.58%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	12.9	0.075	ug/L	0.0221	0.075	ug/L	0.0221	29.49%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	231.9	0.036	ug/L	0.0178	0.036	ug/L	0.0178	49.62%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	35.9	2.712	ug/L	1.3114	2.712	ug/L	1.3114	48.35%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	14.8	0.039	ug/L	0.0601	0.039	ug/L	0.0601	152.63%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	1.6	0.024	ug/L	0.2832	0.024	ug/L	0.2832	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	15.2	0.102	ug/L	0.1698	0.102	ug/L	0.1698	166.12%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	25.4	0.249	ug/L	0.2350	0.249	ug/L	0.2350	94.46%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	20.9	0.794	ug/L	0.8348	0.794	ug/L	0.8348	105.10%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	141.3	59.69	ug/L	4.023	59.69	ug/L	4.023	6.74%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	2.8	0.133	ug/L	0.2597	0.133	ug/L	0.2597	194.73%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	14.9	0.263	ug/L	0.2141	0.263	ug/L	0.2141	81.47%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	30.6	0.673	ug/L	0.2258	0.673	ug/L	0.2258	33.54%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	902.2	66.64	ug/L	12.366	66.64	ug/L	12.366	18.56%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	4.8	0.072	ug/L	0.0833	0.072	ug/L	0.0833	115.73%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-3.9	-0.534	ug/L	1.4602	-0.534	ug/L	1.4602	273.63%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	2.5	0.163	ug/L	0.4292	0.163	ug/L	0.4292	263.68%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-0.1	-0.021	ug/L	0.3100	-0.021	ug/L	0.3100	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	0.0	0.001	ug/L	0.9382	0.001	ug/L	0.9382	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	10.8	1.360	ug/L	0.5239	1.360	ug/L	0.5239	38.52%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-11.9	-0.011	ug/L	0.1272	-0.011	ug/L	0.1272	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-4.0	-0.085	ug/L	0.5972	-0.085	ug/L	0.5972	703.45%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	7.3	1.068	ug/L	0.4565	1.068	ug/L	0.4565	42.73%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-107.2	-0.431	ug/L	0.1750	-0.431	ug/L	0.1750	40.59%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	5.0	0.055	ug/L	0.1368	0.055	ug/L	0.1368	248.85%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 11/27/12 4:14:13 PM
Data Type: Reprocessed on 11/28/12 2:44:43 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-43.5	-0.344	ug/L	0.1760	-0.344	ug/L	0.1760	51.21%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	355704.9	194000	ug/L	609.8	194000	ug/L	609.8	0.31%
QC value within limits for Al 308.215 Recovery = 97.00%								
As 188.979	-4.6	-0.858	ug/L	0.5108	-0.858	ug/L	0.5108	59.54%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2262.6	38.35	ug/L	5.729	38.35	ug/L	5.729	14.94%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	17749.0	0.148	ug/L	0.2176	0.148	ug/L	0.2176	146.68%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-525.2	-0.081	ug/L	0.0089	-0.081	ug/L	0.0089	11.02%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2616819.9	198000	ug/L	496.2	198000	ug/L	496.2	0.25%
QC value within limits for Ca 315.887 Recovery = 99.00%								
Cd 214.440	3535.2	0.031	ug/L	0.1131	0.031	ug/L	0.1131	366.65%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	334.2	-0.798	ug/L	0.2618	-0.798	ug/L	0.2618	32.79%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-88.9	-0.061	ug/L	0.2256	-0.061	ug/L	0.2256	372.32%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-62.2	-0.611	ug/L	0.0108	-0.611	ug/L	0.0108	1.77%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4961781.2	181000	ug/L	1525.2	181000	ug/L	1525.2	0.84%
QC value within limits for Fe 273.955 Recovery = 90.51%								
K 766.490	11.1	-111.3	ug/L	39.02	-111.3	ug/L	39.02	35.05%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3960883.4	191900	ug/L	636.0	191900	ug/L	636.0	0.33%
QC value within limits for Mg 285.213 Recovery = 95.93%								
Mn 257.610	-54.2	-0.037	ug/L	0.4600	-0.037	ug/L	0.4600	>999.9%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-636.0	-0.277	ug/L	0.3174	-0.277	ug/L	0.3174	114.54%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	609.4	-0.555	ug/L	8.9183	-0.555	ug/L	8.9183	>999.9%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	73.0	-0.573	ug/L	0.3576	-0.573	ug/L	0.3576	62.40%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-21.3	-2.904	ug/L	1.4836	-2.904	ug/L	1.4836	51.09%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-10.2	-0.657	ug/L	0.8370	-0.657	ug/L	0.8370	127.48%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-5.1	-0.767	ug/L	1.7189	-0.767	ug/L	1.7189	224.18%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-23.0	-4.534	ug/L	0.9451	-4.534	ug/L	0.9451	20.85%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-19.7	-2.467	ug/L	0.7695	-2.467	ug/L	0.7695	31.19%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2246.8	-0.055	ug/L	0.0379	-0.055	ug/L	0.0379	68.48%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	160.6	-0.031	ug/L	0.8236	-0.031	ug/L	0.8236	>999.9%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-6.8	-0.996	ug/L	1.5443	-0.996	ug/L	1.5443	155.09%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	10555.3	-0.049	ug/L	0.2958	-0.049	ug/L	0.2958	599.21%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	914.0	0.544	ug/L	0.1188	0.544	ug/L	0.1188	21.84%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 11/27/12 4:18:09 PM
Data Type: Reprocessed on 11/28/12 2:44:45 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	128584.9	1015	ug/L	13.9	1015	ug/L	13.9	1.37%
QC value within limits for Ag 338.289 Recovery = 101.52%								
Al 308.215	351079.7	191500	ug/L	1692.8	191500	ug/L	1692.8	0.88%
QC value within limits for Al 308.215 Recovery = 95.74%								
As 188.979	2402.9	445.9	ug/L	2.45	445.9	ug/L	2.45	0.55%
QC value within limits for As 188.979 Recovery = 89.18%								
B	-2225.8	51.29	ug/L	3.063	51.29	ug/L	3.063	5.97%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	98857.8	479.7	ug/L	1.90	479.7	ug/L	1.90	0.40%
QC value within limits for Ba 233.527 Recovery = 95.94%								
Be 313.107	3113016.0	480.8	ug/L	5.97	480.8	ug/L	5.97	1.24%
QC value within limits for Be 313.107 Recovery = 96.16%								
Ca 315.887	2625411.9	198600	ug/L	2016.5	198600	ug/L	2016.5	1.02%
QC value within limits for Ca 315.887 Recovery = 99.32%								
Cd 214.440	355490.3	928.7	ug/L	2.33	928.7	ug/L	2.33	0.25%
QC value within limits for Cd 214.440 Recovery = 92.87%								
Co 228.616	33607.0	469.0	ug/L	2.14	469.0	ug/L	2.14	0.46%
QC value within limits for Co 228.616 Recovery = 93.80%								
Cr 267.716	69777.6	476.5	ug/L	0.68	476.5	ug/L	0.68	0.14%
QC value within limits for Cr 267.716 Recovery = 95.30%								
Cu 327.393	50881.1	499.3	ug/L	4.83	499.3	ug/L	4.83	0.97%
QC value within limits for Cu 327.393 Recovery = 99.87%								
Fe 273.955	5001330.5	182400	ug/L	2176.1	182400	ug/L	2176.1	1.19%
QC value within limits for Fe 273.955 Recovery = 91.21%								
K 766.490	200.4	-33.97	ug/L	29.914	-33.97	ug/L	29.914	88.07%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	4171487.5	202000	ug/L	1886.9	202000	ug/L	1886.9	0.93%
QC value within limits for Mg 285.213 Recovery = 101.02%								
Mn 257.610	26354.0	465.6	ug/L	4.56	465.6	ug/L	4.56	0.98%
QC value within limits for Mn 257.610 Recovery = 93.12%								
Mo 202.031	20966.5	475.1	ug/L	0.95	475.1	ug/L	0.95	0.20%
QC value within limits for Mo 202.031 Recovery = 95.01%								
Na 589.592	390.0	-19.33	ug/L	4.674	-19.33	ug/L	4.674	24.18%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	62333.8	935.9	ug/L	3.68	935.9	ug/L	3.68	0.39%
QC value within limits for Ni 231.604 Recovery = 93.59%								
P 213.617	12.0	1.638	ug/L	1.6190	1.638	ug/L	1.6190	98.87%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	14865.1	956.7	ug/L	3.68	956.7	ug/L	3.68	0.38%
QC value within limits for Pb 220.353 Recovery = 95.67%								
Sb 206.836	3090.1	460.6	ug/L	1.05	460.6	ug/L	1.05	0.23%
QC value within limits for Sb 206.836 Recovery = 92.11%								
Se 196.026	2381.8	470.2	ug/L	0.24	470.2	ug/L	0.24	0.05%
QC value within limits for Se 196.026 Recovery = 94.04%								
Sn 189.927	-13.8	-1.735	ug/L	1.7555	-1.735	ug/L	1.7555	101.17%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2295.5	0.001	ug/L	0.1050	0.001	ug/L	0.1050	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	170.0	0.074	ug/L	0.9248	0.074	ug/L	0.9248	>999.9%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3267.4	478.8	ug/L	1.32	478.8	ug/L	1.32	0.28%
QC value within limits for Tl 190.801 Recovery = 95.75%								
V 292.402	128320.7	495.7	ug/L	0.32	495.7	ug/L	0.32	0.06%
QC value within limits for V 292.402 Recovery = 99.13%								
Zn 206.200	89108.6	938.3	ug/L	6.04	938.3	ug/L	6.04	0.64%
QC value within limits for Zn 206.200 Recovery = 93.83%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/27/12 4:22:06 PM
Data Type: Reprocessed on 11/28/12 2:44:46 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	63556.7	501.8	ug/L	5.06	501.8	ug/L	5.06	1.01%
QC value within limits for Ag 338.289 Recovery = 100.35%								
Al 308.215	36662.2	20000	ug/L	141.2	20000	ug/L	141.2	0.71%
QC value within limits for Al 308.215 Recovery = 100.02%								
As 188.979	5466.8	1015	ug/L	9.7	1015	ug/L	9.7	0.96%
QC value within limits for As 188.979 Recovery = 101.45%								
B	4196.3	1053	ug/L	9.2	1053	ug/L	9.2	0.87%
QC value within limits for B Recovery = 105.28%								
Ba 233.527	172336.3	1009	ug/L	5.4	1009	ug/L	5.4	0.53%
QC value within limits for Ba 233.527 Recovery = 100.87%								
Be 313.107	6724670.2	1039	ug/L	6.2	1039	ug/L	6.2	0.60%
QC value within limits for Be 313.107 Recovery = 103.86%								
Ca 315.887	668291.8	50560	ug/L	583.8	50560	ug/L	583.8	1.15%
QC value within limits for Ca 315.887 Recovery = 101.13%								
Cd 214.440	392116.6	1034	ug/L	6.1	1034	ug/L	6.1	0.59%
QC value within limits for Cd 214.440 Recovery = 103.42%								
Co 228.616	72584.2	1022	ug/L	5.7	1022	ug/L	5.7	0.56%
QC value within limits for Co 228.616 Recovery = 102.20%								
Cr 267.716	150088.9	1024	ug/L	5.2	1024	ug/L	5.2	0.50%
QC value within limits for Cr 267.716 Recovery = 102.35%								
Cu 327.393	101994.5	1001	ug/L	5.0	1001	ug/L	5.0	0.50%
QC value within limits for Cu 327.393 Recovery = 100.09%								
Fe 273.955	561150.4	20390	ug/L	117.3	20390	ug/L	117.3	0.58%
QC value within limits for Fe 273.955 Recovery = 101.95%								
K 766.490	46689.6	19700	ug/L	95.8	19700	ug/L	95.8	0.49%
QC value within limits for K 766.490 Recovery = 98.48%								
Mg 285.213	1054456.7	51040	ug/L	510.7	51040	ug/L	510.7	1.00%
QC value within limits for Mg 285.213 Recovery = 102.08%								
Mn 257.610	57404.4	1012	ug/L	7.0	1012	ug/L	7.0	0.69%
QC value within limits for Mn 257.610 Recovery = 101.17%								
Mo 202.031	47237.6	1040	ug/L	10.4	1040	ug/L	10.4	1.00%
QC value within limits for Mo 202.031 Recovery = 104.04%								
Na 589.592	340299.4	25120	ug/L	239.7	25120	ug/L	239.7	0.95%
QC value within limits for Na 589.592 Recovery = 100.49%								
Ni 231.604	69432.6	1043	ug/L	10.8	1043	ug/L	10.8	1.03%
QC value within limits for Ni 231.604 Recovery = 104.31%								
P 213.617	38029.2	5189	ug/L	60.0	5189	ug/L	60.0	1.16%
QC value within limits for P 213.617 Recovery = 103.79%								
Pb 220.353	15962.9	1027	ug/L	17.7	1027	ug/L	17.7	1.72%
QC value within limits for Pb 220.353 Recovery = 102.74%								
Sb 206.836	6723.3	1002	ug/L	16.9	1002	ug/L	16.9	1.68%
QC value within limits for Sb 206.836 Recovery = 100.21%								
Se 196.026	5188.8	1024	ug/L	9.2	1024	ug/L	9.2	0.89%
QC value within limits for Se 196.026 Recovery = 102.44%								
Sn 189.927	8149.9	1022	ug/L	5.5	1022	ug/L	5.5	0.53%
QC value within limits for Sn 189.927 Recovery = 102.22%								
Sr 421.552	1049864.9	1004	ug/L	9.8	1004	ug/L	9.8	0.98%
QC value within limits for Sr 421.552 Recovery = 100.40%								
Ti 337.279	47047.4	996.9	ug/L	8.02	996.9	ug/L	8.02	0.80%
QC value within limits for Ti 337.279 Recovery = 99.69%								
Tl 190.801	6846.2	1003	ug/L	17.1	1003	ug/L	17.1	1.70%
QC value within limits for Tl 190.801 Recovery = 100.32%								
V 292.402	246641.6	1034	ug/L	5.5	1034	ug/L	5.5	0.53%
QC value within limits for V 292.402 Recovery = 103.40%								
Zn 206.200	98316.7	1050	ug/L	8.5	1050	ug/L	8.5	0.81%
QC value within limits for Zn 206.200 Recovery = 105.01%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/27/12 4:28:24 PM
Data Type: Reprocessed on 11/28/12 2:44:47 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-11.7	-0.092	ug/L	0.3717	-0.092	ug/L	0.3717	402.41%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-7.8	-4.296	ug/L	1.3835	-4.296	ug/L	1.3835	32.20%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	6.0	1.113	ug/L	0.2775	1.113	ug/L	0.2775	24.93%
QC value within limits for As 188.979 Recovery = Not calculated								
B	26.7	6.307	ug/L	0.7823	6.307	ug/L	0.7823	12.40%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	20.9	0.122	ug/L	0.0660	0.122	ug/L	0.0660	54.26%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-79.1	-0.012	ug/L	0.0088	-0.012	ug/L	0.0088	71.98%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	34.5	2.606	ug/L	2.6988	2.606	ug/L	2.6988	103.57%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	11.3	0.030	ug/L	0.0222	0.030	ug/L	0.0222	74.77%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	25.9	0.366	ug/L	0.2061	0.366	ug/L	0.2061	56.32%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-4.6	-0.032	ug/L	0.0212	-0.032	ug/L	0.0212	65.76%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	9.6	0.094	ug/L	0.1248	0.094	ug/L	0.1248	132.31%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	75.0	2.782	ug/L	0.4063	2.782	ug/L	0.4063	14.61%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	53.9	22.75	ug/L	82.643	22.75	ug/L	82.643	363.23%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	34.6	1.679	ug/L	0.5047	1.679	ug/L	0.5047	30.07%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	10.3	0.181	ug/L	0.1788	0.181	ug/L	0.1788	98.55%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	6.0	0.132	ug/L	0.1898	0.132	ug/L	0.1898	143.87%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	149.2	11.02	ug/L	6.917	11.02	ug/L	6.917	62.78%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	1.0	0.014	ug/L	0.2227	0.014	ug/L	0.2227	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-0.7	-0.096	ug/L	0.3519	-0.096	ug/L	0.3519	367.94%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	0.1	0.005	ug/L	0.1760	0.005	ug/L	0.1760	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-2.6	-0.385	ug/L	0.5089	-0.385	ug/L	0.5089	132.06%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-13.9	-2.734	ug/L	0.4959	-2.734	ug/L	0.4959	18.14%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	1.0	0.125	ug/L	0.9746	0.125	ug/L	0.9746	778.67%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	62.8	0.060	ug/L	0.0433	0.060	ug/L	0.0433	71.99%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-4.6	-0.098	ug/L	0.2071	-0.098	ug/L	0.2071	210.57%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3.1	0.460	ug/L	0.3630	0.460	ug/L	0.3630	78.99%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-139.3	-0.572	ug/L	0.3837	-0.572	ug/L	0.3837	67.02%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-15.7	-0.166	ug/L	0.1042	-0.166	ug/L	0.1042	62.76%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 30
Sample ID: CCV1 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/27/12 6:14:22 PM
Data Type: Reprocessed on 11/28/12 2:45:06 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	63645.6	502.5	ug/L	5.32	502.5	ug/L	5.32	1.06%
QC value within limits for Ag 338.289 Recovery = 100.49%								
Al 308.215	36827.1	20090	ug/L	38.1	20090	ug/L	38.1	0.19%
QC value within limits for Al 308.215 Recovery = 100.47%								
As 188.979	5524.7	1025	ug/L	8.8	1025	ug/L	8.8	0.86%
QC value within limits for As 188.979 Recovery = 102.53%								
B	4205.8	1055	ug/L	14.3	1055	ug/L	14.3	1.35%
QC value within limits for B Recovery = 105.51%								
Ba 233.527	172366.5	1009	ug/L	8.9	1009	ug/L	8.9	0.88%
QC value within limits for Ba 233.527 Recovery = 100.89%								
Be 313.107	6692151.4	1034	ug/L	9.0	1034	ug/L	9.0	0.87%
QC value within limits for Be 313.107 Recovery = 103.36%								
Ca 315.887	670056.4	50700	ug/L	272.8	50700	ug/L	272.8	0.54%
QC value within limits for Ca 315.887 Recovery = 101.39%								
Cd 214.440	393813.1	1039	ug/L	9.2	1039	ug/L	9.2	0.89%
QC value within limits for Cd 214.440 Recovery = 103.86%								
Co 228.616	72731.6	1024	ug/L	8.3	1024	ug/L	8.3	0.81%
QC value within limits for Co 228.616 Recovery = 102.41%								
Cr 267.716	150474.6	1026	ug/L	9.6	1026	ug/L	9.6	0.93%
QC value within limits for Cr 267.716 Recovery = 102.62%								
Cu 327.393	101861.2	999.6	ug/L	8.19	999.6	ug/L	8.19	0.82%
QC value within limits for Cu 327.393 Recovery = 99.96%								
Fe 273.955	561668.3	20410	ug/L	169.1	20410	ug/L	169.1	0.83%
QC value within limits for Fe 273.955 Recovery = 102.04%								
K 766.490	46870.6	19770	ug/L	14.0	19770	ug/L	14.0	0.07%
QC value within limits for K 766.490 Recovery = 98.86%								
Mg 285.213	1057796.2	51200	ug/L	210.8	51200	ug/L	210.8	0.41%
QC value within limits for Mg 285.213 Recovery = 102.41%								
Mn 257.610	57830.9	1019	ug/L	3.9	1019	ug/L	3.9	0.38%
QC value within limits for Mn 257.610 Recovery = 101.92%								
Mo 202.031	47231.2	1040	ug/L	5.2	1040	ug/L	5.2	0.50%
QC value within limits for Mo 202.031 Recovery = 104.03%								
Na 589.592	339990.3	25100	ug/L	124.1	25100	ug/L	124.1	0.49%
QC value within limits for Na 589.592 Recovery = 100.40%								
Ni 231.604	68740.1	1033	ug/L	6.2	1033	ug/L	6.2	0.60%
QC value within limits for Ni 231.604 Recovery = 103.26%								
P 213.617	38092.6	5198	ug/L	68.8	5198	ug/L	68.8	1.32%
QC value within limits for P 213.617 Recovery = 103.96%								
Pb 220.353	16166.4	1040	ug/L	8.5	1040	ug/L	8.5	0.81%
QC value within limits for Pb 220.353 Recovery = 104.05%								
Sb 206.836	6686.4	996.6	ug/L	6.08	996.6	ug/L	6.08	0.61%
QC value within limits for Sb 206.836 Recovery = 99.66%								
Se 196.026	5184.9	1024	ug/L	13.1	1024	ug/L	13.1	1.28%
QC value within limits for Se 196.026 Recovery = 102.36%								
Sn 189.927	8398.9	1053	ug/L	8.5	1053	ug/L	8.5	0.81%
QC value within limits for Sn 189.927 Recovery = 105.34%								
Sr 421.552	1044527.1	998.9	ug/L	5.28	998.9	ug/L	5.28	0.53%
QC value within limits for Sr 421.552 Recovery = 99.89%								
Ti 337.279	47057.7	997.1	ug/L	1.17	997.1	ug/L	1.17	0.12%
QC value within limits for Ti 337.279 Recovery = 99.71%								
Tl 190.801	6899.2	1011	ug/L	11.0	1011	ug/L	11.0	1.09%
QC value within limits for Tl 190.801 Recovery = 101.09%								
V 292.402	247176.2	1036	ug/L	8.2	1036	ug/L	8.2	0.80%
QC value within limits for V 292.402 Recovery = 103.62%								
Zn 206.200	98866.7	1056	ug/L	6.7	1056	ug/L	6.7	0.63%
QC value within limits for Zn 206.200 Recovery = 105.59%								

All analyte(s) passed QC.

Sequence No.: 31
Sample ID: CCB 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/27/12 6:17:31 PM
Data Type: Reprocessed on 11/28/12 2:45:07 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	29.1	0.230	ug/L	0.7664	0.230	ug/L	0.7664	333.03%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-9.7	-5.319	ug/L	7.1077	-5.319	ug/L	7.1077	133.62%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.4	0.819	ug/L	0.4318	0.819	ug/L	0.4318	52.72%
QC value within limits for As 188.979 Recovery = Not calculated								
B	60.4	14.26	ug/L	2.885	14.26	ug/L	2.885	20.23%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	43.2	0.254	ug/L	0.0380	0.254	ug/L	0.0380	14.97%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-381.6	-0.059	ug/L	0.0087	-0.059	ug/L	0.0087	14.80%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	143.9	10.88	ug/L	1.172	10.88	ug/L	1.172	10.77%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	26.1	0.069	ug/L	0.0433	0.069	ug/L	0.0433	62.87%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	10.9	0.154	ug/L	0.1093	0.154	ug/L	0.1093	70.73%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	0.8	0.004	ug/L	0.0270	0.004	ug/L	0.0270	648.87%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-41.5	-0.407	ug/L	0.1549	-0.407	ug/L	0.1549	38.05%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	22.6	0.878	ug/L	0.8322	0.878	ug/L	0.8322	94.74%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	111.0	46.89	ug/L	31.306	46.89	ug/L	31.306	66.76%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	20.0	0.968	ug/L	0.5916	0.968	ug/L	0.5916	61.12%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	9.8	0.173	ug/L	0.1603	0.173	ug/L	0.1603	92.60%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	18.8	0.413	ug/L	0.0636	0.413	ug/L	0.0636	15.38%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	404.3	29.85	ug/L	5.715	29.85	ug/L	5.715	19.15%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-16.5	-0.249	ug/L	0.2932	-0.249	ug/L	0.2932	117.86%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-14.3	-1.951	ug/L	0.3819	-1.951	ug/L	0.3819	19.57%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	17.6	1.135	ug/L	0.1756	1.135	ug/L	0.1756	15.47%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-1.6	-0.239	ug/L	0.6577	-0.239	ug/L	0.6577	274.75%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-5.8	-1.135	ug/L	1.5652	-1.135	ug/L	1.5652	137.86%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	7.4	0.925	ug/L	0.7828	0.925	ug/L	0.7828	84.61%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-28.3	-0.027	ug/L	0.0597	-0.027	ug/L	0.0597	220.43%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	3.9	0.081	ug/L	0.3487	0.081	ug/L	0.3487	427.84%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	4.6	0.675	ug/L	0.3007	0.675	ug/L	0.3007	44.54%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-170.3	-0.695	ug/L	0.2337	-0.695	ug/L	0.2337	33.61%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-12.6	-0.132	ug/L	0.0614	-0.132	ug/L	0.0614	46.34%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 42
Sample ID: CCV2 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 11/27/12 7:16:39 PM
Data Type: Reprocessed on 11/28/12 2:45:18 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	49138.8	387.9	ug/L	2.81	387.9	ug/L	2.81	0.72%
QC value within limits for Ag 338.289 Recovery = 103.45%								
Al 308.215	29237.3	15950	ug/L	143.2	15950	ug/L	143.2	0.90%
QC value within limits for Al 308.215 Recovery = 106.35%								
As 188.979	4309.8	799.8	ug/L	1.95	799.8	ug/L	1.95	0.24%
QC value within limits for As 188.979 Recovery = 106.64%								
B	3321.8	831.6	ug/L	18.32	831.6	ug/L	18.32	2.20%
QC value greater than the upper limit for B Recovery = 110.87%								
Ba 233.527	132721.7	776.9	ug/L	3.55	776.9	ug/L	3.55	0.46%
QC value within limits for Ba 233.527 Recovery = 103.59%								
Be 313.107	5224951.2	807.0	ug/L	2.98	807.0	ug/L	2.98	0.37%
QC value within limits for Be 313.107 Recovery = 107.59%								
Ca 315.887	533785.1	40390	ug/L	284.9	40390	ug/L	284.9	0.71%
QC value within limits for Ca 315.887 Recovery = 107.70%								
Cd 214.440	302577.4	798.0	ug/L	1.93	798.0	ug/L	1.93	0.24%
QC value within limits for Cd 214.440 Recovery = 106.40%								
Co 228.616	56297.5	792.6	ug/L	3.61	792.6	ug/L	3.61	0.46%
QC value within limits for Co 228.616 Recovery = 105.68%								
Cr 267.716	115925.7	790.5	ug/L	1.01	790.5	ug/L	1.01	0.13%
QC value within limits for Cr 267.716 Recovery = 105.40%								
Cu 327.393	78705.8	772.4	ug/L	3.58	772.4	ug/L	3.58	0.46%
QC value within limits for Cu 327.393 Recovery = 102.99%								
Fe 273.955	429044.9	15590	ug/L	51.8	15590	ug/L	51.8	0.33%
QC value within limits for Fe 273.955 Recovery = 103.93%								
K 766.490	36654.2	15460	ug/L	135.6	15460	ug/L	135.6	0.88%
QC value within limits for K 766.490 Recovery = 103.09%								
Mg 285.213	847722.2	41030	ug/L	264.2	41030	ug/L	264.2	0.64%
QC value within limits for Mg 285.213 Recovery = 109.42%								
Mn 257.610	46276.4	815.5	ug/L	8.91	815.5	ug/L	8.91	1.09%
QC value within limits for Mn 257.610 Recovery = 108.74%								
Mo 202.031	35761.1	787.7	ug/L	4.17	787.7	ug/L	4.17	0.53%
QC value within limits for Mo 202.031 Recovery = 105.02%								
Na 589.592	270048.0	19940	ug/L	95.5	19940	ug/L	95.5	0.48%
QC value within limits for Na 589.592 Recovery = 106.33%								
Ni 231.604	52972.0	795.7	ug/L	2.41	795.7	ug/L	2.41	0.30%
QC value within limits for Ni 231.604 Recovery = 106.10%								
P 213.617	29131.8	3975	ug/L	39.0	3975	ug/L	39.0	0.98%
QC value within limits for P 213.617 Recovery = 106.01%								
Pb 220.353	12607.1	811.4	ug/L	1.23	811.4	ug/L	1.23	0.15%
QC value within limits for Pb 220.353 Recovery = 108.18%								
Sb 206.836	5274.0	786.1	ug/L	0.83	786.1	ug/L	0.83	0.11%
QC value within limits for Sb 206.836 Recovery = 104.81%								
Se 196.026	4073.7	804.2	ug/L	2.22	804.2	ug/L	2.22	0.28%
QC value within limits for Se 196.026 Recovery = 107.23%								
Sn 189.927	6581.4	825.5	ug/L	2.52	825.5	ug/L	2.52	0.30%
QC value within limits for Sn 189.927 Recovery = 110.06%								
Sr 421.552	827660.1	791.5	ug/L	4.09	791.5	ug/L	4.09	0.52%
QC value within limits for Sr 421.552 Recovery = 105.53%								
Ti 337.279	37129.4	786.7	ug/L	12.74	786.7	ug/L	12.74	1.62%
QC value within limits for Ti 337.279 Recovery = 104.89%								
Tl 190.801	5388.1	789.5	ug/L	1.99	789.5	ug/L	1.99	0.25%
QC value within limits for Tl 190.801 Recovery = 105.27%								
V 292.402	190276.4	797.5	ug/L	2.08	797.5	ug/L	2.08	0.26%
QC value within limits for V 292.402 Recovery = 106.33%								
Zn 206.200	75901.9	810.7	ug/L	4.44	810.7	ug/L	4.44	0.55%
QC value within limits for Zn 206.200 Recovery = 108.10%								

QC Failed. Continue with analysis.

Sequence No.: 43 Autosampler Location: 2
Sample ID: CCB 121127EA I:PB O:EA Date Collected: 11/27/12 7:23:26 PM
Analyst: Data Type: Reprocessed on 11/28/12 2:45:19 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	20.5	0.162	ug/L	0.6911	0.162	ug/L	0.6911	427.01%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-4.6	-2.511	ug/L	5.9886	-2.511	ug/L	5.9886	238.52%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.2	0.783	ug/L	0.8627	0.783	ug/L	0.8627	110.20%
QC value within limits for As 188.979 Recovery = Not calculated								
B	15.3	3.600	ug/L	0.1746	3.600	ug/L	0.1746	4.85%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	19.6	0.115	ug/L	0.1001	0.115	ug/L	0.1001	87.17%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-208.6	-0.032	ug/L	0.0093	-0.032	ug/L	0.0093	28.97%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	1281.2	96.95	ug/L	22.925	96.95	ug/L	22.925	23.65%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	30.6	0.080	ug/L	0.0188	0.080	ug/L	0.0188	23.41%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	1.6	0.023	ug/L	0.3212	0.023	ug/L	0.3212	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-21.3	-0.146	ug/L	0.1017	-0.146	ug/L	0.1017	69.51%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-18.2	-0.179	ug/L	0.1156	-0.179	ug/L	0.1156	64.64%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	8.6	0.352	ug/L	0.7401	0.352	ug/L	0.7401	210.52%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	187.7	79.23	ug/L	54.350	79.23	ug/L	54.350	68.60%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	96.7	4.672	ug/L	4.9566	4.672	ug/L	4.9566	106.08%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-2.2	-0.039	ug/L	0.1842	-0.039	ug/L	0.1842	469.99%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-7.4	-0.162	ug/L	0.0891	-0.162	ug/L	0.0891	54.84%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	1496.2	110.5	ug/L	11.77	110.5	ug/L	11.77	10.65%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-22.4	-0.338	ug/L	0.3973	-0.338	ug/L	0.3973	117.44%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	592.4	80.83	ug/L	42.520	80.83	ug/L	42.520	52.60%
QC value greater than the upper limit for P 213.617 Recovery = Not calculated								
Pb 220.353	0.7	0.045	ug/L	0.3274	0.045	ug/L	0.3274	731.74%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-3.7	-0.554	ug/L	0.9878	-0.554	ug/L	0.9878	178.38%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-6.5	-1.274	ug/L	2.2591	-1.274	ug/L	2.2591	177.35%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-6.7	-0.838	ug/L	0.8944	-0.838	ug/L	0.8944	106.69%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-112.4	-0.108	ug/L	0.0428	-0.108	ug/L	0.0428	39.59%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-23.3	-0.494	ug/L	0.5217	-0.494	ug/L	0.5217	105.64%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	9.3	1.369	ug/L	0.9864	1.369	ug/L	0.9864	72.05%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-136.5	-0.565	ug/L	0.3592	-0.565	ug/L	0.3592	63.52%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-12.1	-0.127	ug/L	0.0467	-0.127	ug/L	0.0467	36.72%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/27/12	11/27/12	#6010B-121127A-AY72103
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/13/12	11/13/12	#6010B-121113A-AY71560

Metals SC-Blank-REG MDLs
Printed: 12/03/12 10:40:04 AM

Sequence No.: 108
Sample ID: 121113A-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 114
Date Collected: 11/13/12 7:51:59 PM
Data Type: Reprocessed on 11/14/12 11:09:05 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121113A-3050-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	224.4	1.785	ug/L	0.6233	0.071	mg/kg	0.0249	34.91%
Al 308.215	0.2	0.052	ug/L	9.7996	0.002	mg/kg	0.3920	>999.9%
As 188.979	3.4	0.716	ug/L	0.8377	0.029	mg/kg	0.0335	116.98%
B	28.0	6.587	ug/L	0.8606	0.263	mg/kg	0.0344	13.07%
Ba 233.527	61.8	0.384	ug/L	0.1484	0.015	mg/kg	0.0059	38.61%
Be 313.107	-971.1	-0.162	ug/L	0.0068	-0.006	mg/kg	0.0003	4.17%
Ca 315.887	351.0	30.05	ug/L	2.919	1.202	mg/kg	0.1167	9.71%
Cd 214.440	108.5	0.340	ug/L	0.0295	0.014	mg/kg	0.0012	8.66%
Co 228.616	40.3	0.608	ug/L	0.1677	0.024	mg/kg	0.0067	27.56%
Cr 267.716	53.1	0.400	ug/L	0.2404	0.016	mg/kg	0.0096	60.14%
Cu 327.393	103.7	0.989	ug/L	0.6711	0.040	mg/kg	0.0268	67.86%
Fe 273.955	-0.7	0.020	ug/L	0.6016	0.001	mg/kg	0.0241	>999.9%
K 766.490	196.5	96.00	ug/L	19.065	3.840	mg/kg	0.7626	19.86%
Mg 285.213	40.4	2.053	ug/L	0.1710	0.082	mg/kg	0.0068	8.33%
Mn 257.610	-6.3	-0.113	ug/L	0.1794	-0.005	mg/kg	0.0072	158.51%
Mo 202.031	25.3	0.637	ug/L	0.1582	0.025	mg/kg	0.0063	24.82%
Na 589.592	4144.5	300.5	ug/L	26.67	12.02	mg/kg	1.067	8.87%
Ni 231.604	-89.6	-1.473	ug/L	0.3745	-0.059	mg/kg	0.0150	25.43%
P 213.617	130.0	20.23	ug/L	0.601	0.809	mg/kg	0.0240	2.97%
Pb 220.353	-32.4	-2.278	ug/L	0.5358	-0.091	mg/kg	0.0214	23.53%
Sb 206.836	-11.9	-2.166	ug/L	0.9393	-0.087	mg/kg	0.0376	43.36%
Se 196.026	5.7	1.079	ug/L	2.1239	0.043	mg/kg	0.0850	196.80%
Sn 189.927	-35.0	-5.011	ug/L	0.7182	-0.200	mg/kg	0.0287	14.33%
Sr 421.552	112.2	0.106	ug/L	0.1372	0.004	mg/kg	0.0055	129.44%
Ti 337.279	28.6	0.692	ug/L	0.3355	0.028	mg/kg	0.0134	48.48%
Tl 190.801	-6.5	-1.047	ug/L	0.5334	-0.042	mg/kg	0.0213	50.93%
V 292.402	-145.5	-0.619	ug/L	0.0273	-0.025	mg/kg	0.0011	4.42%
Zn 206.200	284.7	3.355	ug/L	0.1408	0.134	mg/kg	0.0056	4.20%

Sequence No.: 32
Sample ID: 121127A-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 89
Date Collected: 11/27/12 6:21:54 PM
Data Type: Reprocessed on 11/28/12 2:45:08 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121127A-3050-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	236.9	1.870	ug/L	1.2602	0.075	mg/kg	0.0504	67.39%
Al 308.215	-29.4	-16.15	ug/L	6.250	-0.646	mg/kg	0.2500	38.71%
As 188.979	2.5	0.456	ug/L	1.1894	0.018	mg/kg	0.0476	261.08%
B	55.8	13.18	ug/L	0.326	0.527	mg/kg	0.0131	2.48%
Ba 233.527	27.1	0.159	ug/L	0.0405	0.006	mg/kg	0.0016	25.47%
Be 313.107	-448.3	-0.069	ug/L	0.0234	-0.003	mg/kg	0.0009	33.74%
Ca 315.887	313.3	23.70	ug/L	0.558	0.948	mg/kg	0.0223	2.36%
Cd 214.440	164.2	0.435	ug/L	0.0134	0.017	mg/kg	0.0005	3.09%
Co 228.616	7.6	0.111	ug/L	0.2332	0.004	mg/kg	0.0093	210.81%
Cr 267.716	98.4	0.669	ug/L	0.0718	0.027	mg/kg	0.0029	10.74%
Cu 327.393	432.0	4.239	ug/L	0.5417	0.170	mg/kg	0.0217	12.78%
Fe 273.955	-15.9	-0.512	ug/L	0.6510	-0.020	mg/kg	0.0260	127.06%
K 766.490	0.5	0.216	ug/L	32.7729	0.009	mg/kg	1.3109	>999.9%
Mg 285.213	34.7	1.676	ug/L	0.2698	0.067	mg/kg	0.0108	16.10%
Mn 257.610	1.9	0.033	ug/L	0.0782	0.001	mg/kg	0.0031	234.17%
Mo 202.031	81.8	1.797	ug/L	0.4958	0.072	mg/kg	0.0198	27.60%
Na 589.592	610.1	45.07	ug/L	7.935	1.803	mg/kg	0.3174	17.61%
Ni 231.604	-114.2	-1.719	ug/L	0.3197	-0.069	mg/kg	0.0128	18.60%
P 213.617	104.2	14.22	ug/L	0.326	0.569	mg/kg	0.0130	2.29%
Pb 220.353	-57.7	-3.716	ug/L	0.5655	-0.149	mg/kg	0.0226	15.22%
Sb 206.836	-0.8	-0.114	ug/L	0.6531	-0.005	mg/kg	0.0261	572.64%
Se 196.026	-17.9	-3.524	ug/L	1.0397	-0.141	mg/kg	0.0416	29.50%
Sn 189.927	10.6	1.324	ug/L	0.8366	0.053	mg/kg	0.0335	63.20%
Sr 421.552	-39.5	-0.038	ug/L	0.0528	-0.002	mg/kg	0.0021	138.98%
Ti 337.279	24.6	0.522	ug/L	0.1281	0.021	mg/kg	0.0051	24.54%
Tl 190.801	-12.1	-1.776	ug/L	0.2890	-0.071	mg/kg	0.0116	16.27%
V 292.402	-211.2	-0.838	ug/L	0.2932	-0.034	mg/kg	0.0117	35.00%
Zn 206.200	53.0	0.568	ug/L	0.1460	0.023	mg/kg	0.0058	25.70%

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.0	10.5	105	80-120	11/13/12	11/13/12	#6010B-121113A-AY71560

Comments: _____

Sequence No.: 109
Sample ID: 121113A-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 115
Date Collected: 11/13/12 7:56:24 PM
Data Type: Reprocessed on 11/14/12 11:09:06 AM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121113A-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	10776.9	85.72	ug/L	0.506	3.429	mg/kg	0.0202	0.59%
Al 308.215	3236.6	1897	ug/L	16.7	75.88	mg/kg	0.670	0.88%
As 188.979	1162.1	243.6	ug/L	1.03	9.745	mg/kg	0.0412	0.42%
B	979.5	232.6	ug/L	2.08	9.302	mg/kg	0.0832	0.89%
Ba 233.527	40032.7	249.5	ug/L	1.23	9.979	mg/kg	0.0492	0.49%
Be 313.107	303307.9	50.73	ug/L	0.629	2.029	mg/kg	0.0252	1.24%
Ca 315.887	280889.0	24060	ug/L	302.6	962.4	mg/kg	12.10	1.26%
Cd 214.440	16608.8	52.04	ug/L	0.070	2.082	mg/kg	0.0028	0.13%
Co 228.616	17843.2	269.1	ug/L	0.17	10.76	mg/kg	0.007	0.06%
Cr 267.716	35641.6	269.5	ug/L	0.80	10.78	mg/kg	0.032	0.30%
Cu 327.393	25887.4	246.8	ug/L	2.94	9.872	mg/kg	0.1178	1.19%
Fe 273.955	26938.9	1029	ug/L	2.6	41.18	mg/kg	0.102	0.25%
K 766.490	10375.9	5064	ug/L	94.5	202.6	mg/kg	3.78	1.87%
Mg 285.213	441124.5	22510	ug/L	168.1	900.4	mg/kg	6.72	0.75%
Mn 257.610	13964.0	248.9	ug/L	1.23	9.956	mg/kg	0.0491	0.49%
Mo 202.031	11031.4	278.2	ug/L	0.41	11.13	mg/kg	0.016	0.15%
Na 589.592	341843.3	24790	ug/L	130.2	991.4	mg/kg	5.21	0.53%
Ni 231.604	16245.2	266.2	ug/L	0.64	10.65	mg/kg	0.026	0.24%
P 213.617	12860.6	2001	ug/L	6.3	80.06	mg/kg	0.251	0.31%
Pb 220.353	3731.2	262.6	ug/L	1.97	10.51	mg/kg	0.079	0.75%
Sb 206.836	1354.1	246.7	ug/L	0.98	9.866	mg/kg	0.0392	0.40%
Se 196.026	1227.7	233.3	ug/L	3.06	9.331	mg/kg	0.1223	1.31%
Sn 189.927	2044.8	292.4	ug/L	0.52	11.70	mg/kg	0.021	0.18%
Sr 421.552	259200.9	245.8	ug/L	1.41	9.830	mg/kg	0.0566	0.58%
Ti 337.279	10227.0	247.2	ug/L	1.31	9.886	mg/kg	0.0524	0.53%
Tl 190.801	1499.1	240.6	ug/L	1.58	9.622	mg/kg	0.0633	0.66%
V 292.402	61013.9	270.0	ug/L	1.60	10.80	mg/kg	0.064	0.59%
Zn 206.200	44674.0	528.3	ug/L	2.79	21.13	mg/kg	0.112	0.53%

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.0	10.4	104	80-120	11/27/12	11/27/12	#6010B-121127A-AY72103

Comments: _____

Sequence No.: 33
Sample ID: 121127A-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 90
Date Collected: 11/27/12 6:26:16 PM
Data Type: Reprocessed on 11/28/12 2:45:09 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121127A-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	12520.6	98.85	ug/L	1.227	3.954	mg/kg	0.0491	1.24%
Al 308.215	3454.2	1886	ug/L	15.0	75.45	mg/kg	0.600	0.79%
As 188.979	1296.8	240.7	ug/L	1.12	9.626	mg/kg	0.0446	0.46%
B	1060.8	252.3	ug/L	3.31	10.09	mg/kg	0.133	1.31%
Ba 233.527	42116.4	248.8	ug/L	3.55	9.952	mg/kg	0.1421	1.43%
Be 313.107	324621.8	50.14	ug/L	0.607	2.005	mg/kg	0.0243	1.21%
Ca 315.887	323412.5	24470	ug/L	374.0	978.9	mg/kg	14.96	1.53%
Cd 214.440	19508.2	51.58	ug/L	0.172	2.063	mg/kg	0.0069	0.33%
Co 228.616	18602.1	262.0	ug/L	1.00	10.48	mg/kg	0.040	0.38%
Cr 267.716	38691.5	263.7	ug/L	3.03	10.55	mg/kg	0.121	1.15%
Cu 327.393	25509.9	250.3	ug/L	4.25	10.01	mg/kg	0.170	1.70%
Fe 273.955	27948.5	997.1	ug/L	11.76	39.88	mg/kg	0.470	1.18%
K 766.490	10914.4	4606	ug/L	90.0	184.2	mg/kg	3.60	1.95%
Mg 285.213	500927.2	24240	ug/L	312.1	969.5	mg/kg	12.48	1.29%
Mn 257.610	14640.2	257.3	ug/L	1.15	10.29	mg/kg	0.046	0.45%
Mo 202.031	12174.7	267.8	ug/L	1.28	10.71	mg/kg	0.051	0.48%
Na 589.592	326121.8	24090	ug/L	326.7	963.6	mg/kg	13.07	1.36%
Ni 231.604	17423.1	261.7	ug/L	1.10	10.47	mg/kg	0.044	0.42%
P 213.617	14143.0	1930	ug/L	5.4	77.20	mg/kg	0.217	0.28%
Pb 220.353	4057.0	261.1	ug/L	1.98	10.44	mg/kg	0.079	0.76%
Sb 206.836	1558.7	232.3	ug/L	2.17	9.293	mg/kg	0.0869	0.94%
Se 196.026	1117.6	220.6	ug/L	2.01	8.826	mg/kg	0.0802	0.91%
Sn 189.927	2199.9	275.9	ug/L	1.93	11.04	mg/kg	0.077	0.70%
Sr 421.552	252858.6	241.7	ug/L	3.31	9.670	mg/kg	0.1324	1.37%
Ti 337.279	11644.1	246.6	ug/L	0.64	9.862	mg/kg	0.0257	0.26%
Tl 190.801	1697.3	248.7	ug/L	1.65	9.948	mg/kg	0.0659	0.66%
V 292.402	63410.2	266.8	ug/L	3.27	10.67	mg/kg	0.131	1.23%
Zn 206.200	48436.6	515.5	ug/L	6.34	20.62	mg/kg	0.254	1.23%

Metals Standards Log Book # 36 Page # 037

BC 11/13/12

6020/6020A

(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A

Today's Date 11/13/12

Expires: 11/20/12

Prep 1% HNO3/1.0%HCL

20 mL HNO3 / 2000 mL Di Water
Lot #L12065

20 mL HCL / 2000mL Di Water
Lot #51358

Expires: 11/20/12

Internal Standard Mix: Prep 11/09/2012

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1.0% HCL 11/13/12

Standard 3 11/20/12

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	ABS STDS	012512-30926
25 uL	CCV-B	ABS STDS	021312-30928
25 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1.0% HCL 11/13/12

Intermediate-Sb 11/20/12

100 uL of Sb STD (CPI 12A011-30298) in 10 mL of 1% HNO3/1.0% HCL

ICV-Sb 11/20/12

100 uL of Intermediate-Sb in 10 mL of 1% HNO3/1.0% HCL

BC 11/13/12

Standard 2 11/20/12

Amount	STD	
500 uL	Standard 4	11/13/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/13/12

Standard 1 11/20/12

Amount	STD	
50 uL	Standard 4	11/13/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/13/12

ICP-MS ICV 11/20/12

Amount	STD		
50 uL	QCS ICV A	CPI	11C184-30611
50 uL	QCS ICV B	CPI	11C184-30612

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/13/12

ICSA Prep: 11/20/12

1 mL	ICSA	CPI	12I082-31307

Prepared in 5 mL of 1% HNO3/1.0% HCL 11/13/12

ICSAB Prep: 11/20/12

1mL	ICSA	CPI	12I082-31307
0.025mL	INT	O2SI	1032370-30265

Prepared in 5 mL of 1% HNO3/1.0% HCL 11/13/12

ICP-LDR 11/20/12

Amount	STD		
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 10 mL of 1% HNO3/1.0% HCL 11/13/12

CA 11-13-12

6010B-C

(A)

1%HNO3 / 5%HCl BLK					6010B/6010C ICSA				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
100 mL	HCL	EMD	UN1789-265	10/22/12	1mL	Al	CPI	11J015-30092	05/28/13
20 mL	HNO3	JT BAKER	L10023-266	10/24/12	1mL	Ca	CPI	11J031-29989	05/14/13
Prepared in 2000 ml DI Water					1mL	Mg	CPI	11K178-30093	05/28/13
STD 1 / LDL 6010B/6010C					1mL	Fe	O2SI	1030787-30616	05/17/13
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	Prepared in 50 ml 1%HNO3/5%HCl				
0.5 mL	6010 LDL	O2SI	1039165-31300	10/01/13	6010B/6010C ICSAB				
Prepared in 50 ml 1%HNO3/5%HCl					1mL	Al	CPI	11J015-30092	05/28/13
STD 3 / HDL 6010B/6010C					1mL	Ca	CPI	11J031-29989	05/14/13
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15	1mL	Mg	CPI	11K178-30093	05/28/13
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15	1mL	Fe	O2SI	1030787-30616	05/17/13
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15	0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 100 ml 1%HNO3 / 5%HCl					Prepared in 50 ml 1%HNO3/5%HCl				
STD 2 / CCV1 6010B/6010C/6010C					6010B/6010C ICV				
AMOUNT	STD	PREP DATE	EXP DATE		0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
25mL	STD 3	Today	1 week		0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
25mL	1%HNO3/5%HCl	Today	1 week		Prepared in 50ml 1%HNO3/5%HCl				
CCV2 6010B/6010C									
AMOUNT	STD	PREP DATE	EXP DATE						
15mL	STD 3	Today	1 week						
25mL	1%HNO3/5%HCl	Today	1 week						

CA 11-13-12

LO 11/14/12

Hg Working Stds.

Hg WORKING STANDARD 7470A/7471/245.1

1ml X 10ug/ml Hg STOCK STD. (11/13/12LO)/200ml 1% HNO3 Lot#L12065

1ml X 10ug/ml Hg STOCK ICV (11/13/12LO)/200ml 1% HNO3 Lot#L12065

Final concentration is 50 ug/L. Expires... 11/14/12

LO 11/14/12

Metals Standards Log Book # 36 Page # 045

EA 11-27-12

~~6010B-C~~

(A) EA 11-27-12

200.7

11/26/12

11/26/12

11/26/12

11/26/12

184-30611
184-30612
11/26/12

21082-31307
11/26/12

21082-31307
2370-30265
11/26/12

512-30926
312-30928
512-30927
11/26/12

EA 11-27-12

6010B-C

(A)

ires
09/28/13
02/23/14
02/23/14
02/23/14
02/25/14
02/08/13
)mL

2%HNO3 / 2%HCl BLK					200.7 ICV				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
40 mL	HCL	BDH	UN1789-265	10/22/12	0.25ML	QCS ICV A	CPI	12C184-30611	09/20/13
40 mL	HNO3	JT BAKER	L10023-266	10/24/12	0.25ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 2000 ml DI Water					Prepared in 50ml 2%HNO3/2%HCl				
STD 1 / LDL 200.7					200.7 ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	0.5mL	Al	CPI	11J015-30092	05/28/13
0 250 mL	200.7 LDL	O2SI	1040652-31584	11/01/13	0 5mL	Ca	CPI	11J031-29989	05/14/13
Prepared in 50 ml 2%HNO3/2%HCl					0.5mL	Mg	CPI	11K178-30093	05/28/13
STD 3 / HDL 200.7					0.5mL	Fe	O2SI	1030787-30616	05/17/13
0.5 mL	CCV-A	ABSOLUTE	012512-30926	01/25/15	Prepared in 50 ml 2%HNO3/2%HCl				
0.5 mL	CCV-B	ABSOLUTE	021312-30928	02/13/15	200.7 ICSAB				
0.5 mL	CCV-C	ABSOLUTE	012512-30927	01/25/15	0.5mL	Al	CPI	11J015-30092	05/28/13
Prepared in 100 ml 2%HNO3/2%HCl					0.5mL	Ca	CPI	11J031-29989	05/14/13
STD 2 / CCV1 200.7					0.5mL	Mg	CPI	11K178-30093	05/28/13
AMOUNT	STD	PREP DATE	EXP DATE		0.5mL	Fe	O2SI	1030787-30616	05/17/13
25mL	STD 3	TODAY	1 WEEK		0 25mL	INT SPECIAL MIX	O2SI	1032370-30265	2/1/13
25mL	2%HNO3/2%HCl	TODAY	1 WEEK		Prepared in 50 ml 2%HNO3/2%HCl				
CCV2 200.7									
15mL	STD 3	TODAY	1 WEEK						
25mL	2%HNO3/2%HCl	TODAY	1 WEEK						

EA 11-27-12

1%HNO3 / 5%HCl BLK					6010B/6010C ICSA				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
100 mL	HCL	EMD	UN1789-265	10/22/12	1mL	Al	CPI	11J015-30092	05/28/13
20 mL	HNO3	JT BAKER	L10023-266	10/24/12	1mL	Ca	CPI	11J031-29989	05/14/13
Prepared in 2000 ml DI Water					1mL	Mg	CPI	11K178-30093	05/28/13
STD 1 / LDL 6010B/6010C					1mL	Fe	O2SI	1030787-30616	05/17/13
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	Prepared in 50 ml 1%HNO3/5%HCl				
0.5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13	6010B/6010C ICSAB				
Prepared in 50 ml 1%HNO3/5%HCl					1mL	Al	CPI	11J015-30092	05/28/13
STD 3 / HDL 6010B/6010C					1mL	Ca	CPI	11J031-29989	05/14/13
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15	1mL	Mg	CPI	11K178-30093	05/28/13
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15	1mL	Fe	O2SI	1030787-30616	05/17/13
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15	0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 100 ml 1%HNO3 / 5%HCl					Prepared in 50 ml 1%HNO3/5%HCl				
STD 2 / CCV1 6010B/6010C/6010C					6010B/6010C ICV				
AMOUNT	STD	PREP DATE	EXP DATE		0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
25mL	STD 3	Today	1 week		0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
25mL	1%HNO3/5%HCl	Today	1 week		Prepared in 50ml 1%HNO3/5%HCl				
CCV2 6010B/6010C									
AMOUNT	STD	PREP DATE	EXP DATE						
15mL	STD 3	Today	1 week						
25mL	1%HNO3/5%HCl	Today	1 week						

EA 11-27-12

EA 11-27-12

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121113A **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 1037547-31170		
Spiked ID 2	LCSW LOT# 1037545-31167		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	11/13/12 8:20:00 AM
Witnessed By	BC	Date:	11/13/12 8:20:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	11/13/12 14:30

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121113A Blk				2.50g	100mL	11/13/12 8:20	equip: Modblock4
2	121113A LCS		1mL	1+2	2.50g	100mL	11/13/12 8:20	equip: Modblock4
3	AY71479	AY71479M01			2.56g	100mL	11/13/12 8:20	equip: Modblock4
4	AY71481	AY71481M01			2.55g	100mL	11/13/12 8:20	equip: Modblock4
5	AY71483	AY71483M01			2.52g	100mL	11/13/12 8:20	equip: Modblock4
6	AY71485	AY71485M01			2.56g	100mL	11/13/12 8:20	equip: Modblock4
7	AY71487	AY71487M01			2.57g	100mL	11/13/12 8:20	equip: Modblock4
8	AY71559	AY71559M01			2.50g	100mL	11/13/12 8:20	equip: Modblock4
9	AY71560	AY71560M01			2.53g	100mL	11/13/12 8:20	equip: Modblock4
10	AY71560 MS	AY71560M01	2mL	1+2	2.53g	100mL	11/13/12 8:20	equip: Modblock4
11	AY71560 MSD	AY71560M01	2mL	1+2	2.53g	100mL	11/13/12 8:20	equip: Modblock4

Solvent and Lot#
1:1 HNO3 11-8-12
HNO3 J.T.B. L10023 0271
H2O2 J.T.B K20J00 0254
HCL EMD Lot# 4112032 0272

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	EA
Date	11-13-12
Time	14:30
Moved to	metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	11/13/12 10:54:28 AM

Reviewed By: EA **Date:** 11-14-12

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121127A **Units** mL

Spikes	
Spiked ID 1	LCSW LOT# 1039704-31514
Spiked ID 2	LCSW LOT# 1039705-31515
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 11/27/12 10:25:00 AM
Witnessed By	BC Date: 11/27/12 10:25:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	11/27/12 15:30

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121127A Blk				2.50g	100mL	11/27/12 10:25	equip: Modblock4
2	121127A LCS		1mL	1+2	2.50g	100mL	11/27/12 10:25	equip: Modblock4
3	AY71478	AY71478M01			2.45g	100mL	11/27/12 10:25	equip: Modblock4
4	AY71480	AY71480M01			2.48g	100mL	11/27/12 10:25	equip: Modblock4
5	AY71482	AY71482M01			1.86g	100mL	11/27/12 10:25	equip: Modblock4
6	AY71484	AY71484M01			1.07g	100mL	11/27/12 10:25	equip: Modblock4
7	AY71486	AY71486M01			1.62g	100mL	11/27/12 10:25	equip: Modblock4
8	AY71558	AY71558M01			0.95g	100mL	11/27/12 10:25	equip: Modblock4
9	AY72097	AY72097M01			2.45g	100mL	11/27/12 10:25	equip: Modblock4
10	AY72100	AY72100M01			2.47g	100mL	11/27/12 10:25	equip: Modblock4
11	AY72103	AY72103M01			2.57g	100mL	11/27/12 10:25	equip: Modblock4
12	AY72103 MS	AY72103M01	2mL	1+2	2.57g	100mL	11/27/12 10:25	equip: Modblock4
13	AY72103 MSD	AY72103M01	2mL	1+2	2.57g	100mL	11/27/12 10:25	equip: Modblock4

Solvent and Lot#
1:1 HNO3 11-9-12
HNO3 J.T.B. L10023 0276
H2O2 J.T.B K20J00 0254
HCL EMD Lot# 4112030 0277

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	EA
Date	11-27-12
Time	15:30
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	11/27/12 11:23:59 AM

Reviewed By: EA **Date:** 11-27-12

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	13 Nov 2012	11:11	CalBlk 121113EA I:PB O:EA		121113A6010	1.
2	13 Nov 2012	11:16	STD 1 121113EA I:PB O:EA		121113A6010	1.
3	13 Nov 2012	11:20	STD 2 121113EA I:PB O:EA		121113A6010	1.
4	13 Nov 2012	11:23	STD 3 121113EA I:PB O:EA		121113A6010	1.
5	13 Nov 2012	11:26	ICV 121113EA I:PB O:EA		121113A6010	1.
6	13 Nov 2012	11:30	ICB 121113EA I:PB O:EA		121113A6010	1.
8	13 Nov 2012	11:39	ICSA 121113EA I:PB O:EA		121113A6010	1.
9	13 Nov 2012	11:43	ICSAB 121113EA I:PB O:EA		121113A6010	1.
10	13 Nov 2012	11:59	CCV1 121113EA I:PB O:EA		121113A6010	1.
11	13 Nov 2012	12:03	CCB 121113EA I:PB O:EA		121113A6010	1.
106	13 Nov 2012	19:43	CCV1 121113EA I:PB O:EA		121113A6010	1.
107	13 Nov 2012	19:47	CCB 121113EA I:PB O:EA		121113A6010	1.
108	13 Nov 2012	19:51	121113A-3050-BLK		121113A6010	1.
109	13 Nov 2012	19:56	121113A-3050-LCS		121113A6010	1.
115	13 Nov 2012	20:25	AY71559M01		121113A6010	1.
117	13 Nov 2012	20:37	CCV2 121113EA I:PB O:EA		121113A6010	1.
118	13 Nov 2012	20:41	CCB 121113EA I:PB O:EA		121113A6010	1.

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	27 Nov 2012	15:48	CalBlk 121127EA I:PB O:EA		121127A6010	1.
2	27 Nov 2012	15:52	STD 1 121127EA I:PB O:EA		121127A6010	1.
3	27 Nov 2012	15:56	STD 2 121127EA I:PB O:EA		121127A6010	1.
4	27 Nov 2012	15:59	STD 3 121127EA I:PB O:EA		121127A6010	1.
5	27 Nov 2012	16:03	ICV 121127EA I:PB O:EA		121127A6010	1.
6	27 Nov 2012	16:06	ICB 121127EA I:PB O:EA		121127A6010	1.
8	27 Nov 2012	16:14	ICSA 121127EA I:PB O:EA		121127A6010	1.
9	27 Nov 2012	16:18	ICSAB 121127EA I:PB O:EA		121127A6010	1.
10	27 Nov 2012	16:22	CCV1 121127EA I:PB O:EA		121127A6010	1.
11	27 Nov 2012	16:28	CCB 121127EA I:PB O:EA		121127A6010	1.
30	27 Nov 2012	18:14	CCV1 121127EA I:PB O:EA		121127A6010	1.
31	27 Nov 2012	18:17	CCB 121127EA I:PB O:EA		121127A6010	1.
32	27 Nov 2012	18:21	121127A-3050-BLK		121127A6010	1.
33	27 Nov 2012	18:26	121127A-3050-LCS		121127A6010	1.
40	27 Nov 2012	19:03	AY71558M01		121127A6010	1.
42	27 Nov 2012	19:16	CCV2 121127EA I:PB O:EA		121127A6010	1.
43	27 Nov 2012	19:23	CCB 121127EA I:PB O:EA		121127A6010	1.

Wetlab Results

ARF: 69254

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
APPL ID: AY71559	-Client Sample ID: GT12021L		-Sample Collection Date: 11/07/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	73.1	2.0	%	11/12/12	11/13/12

Printed: 11/28/12 1:36:00 PM

WETLAB

Sample/Sample Duplicate Results

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Project: 748350.02000 CSSA

Sample ID: AY71559
Client ID: GT12021L

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

ARF: 69254

Method	Analyte	Sample ID	Sample Result	Sample Dup Result	RPD	RPD Max	PQL	Units	Sample Extract Date	Sample Analysis Date	Sample Dup Extract Date	Sample Dup Analysis Date
CLP MOIS	MOISTURE	AY71559	73.1	73.1	0.0	20	2.0	%	11/12/12	11/13/12	11/12/12	11/13/12

Printed: 11/28/12 1:36:03 PM

% Moisture

Batch: QCG 121112-M004545

Method: CLP 4.0

Date: 11/12/12 16:33

Sample	Container	Pan (g)	Pan+Wet (g)	Pan+Dry 1 (g)	Pan+Dry 2 (g)	Moisture (%)	Comments
AY71560	m01	0.8409 11/12/12 16:33	7.2903 11/12/12 16:35	2.3436 11/13/12 07:39	2.3436 11/13/12 07:39	76.700	AY71560M01
AY71559D	m01	0.8424 11/12/12 16:32	7.0286 11/12/12 16:33	2.5083 11/13/12 07:38	2.5082 11/13/12 07:38	73.072	AY71559M01
AY71559	m01	0.8307 11/12/12 16:31	6.9632 11/12/12 16:32	2.4824 11/13/12 07:38	2.4818 11/13/12 07:38	73.076	AY71559M01

Date/Time InOven@104°C	Date/Time OutOven@104°C	Date/Time InOven@104°C	Date/Time OutOven@104°C
11/12/12 4:36:00 PM			11/13/12 7:38:00 AM

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
11/9/12	BB	Mettler AT200	0.5g	0.5001 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0001 g	0.9990	1.0010	
		Mettler AT200	20g	20.0004 g	19.9800	20.0200	
		Mettler AT200	50g	50.0011 g	49.9500	50.0500	
		Mettler AT200	100g	100.0022 g	99.9000	100.1000	
		Mettler AT200	150g	150.0032 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
11/12/12	BB						Yes
		Mettler AT200	0.5g	0.5002 g	0.4995	0.5005	
		Mettler AT200	1g	1.0002 g	0.9990	1.0010	
		Mettler AT200	20g	20.0006 g	19.9800	20.0200	
		Mettler AT200	50g	50.0015 g	49.9500	50.0500	
		Mettler AT200	100g	100.0028 g	99.9000	100.1000	
		Mettler AT200	150g	150.0040 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
11/13/12	BB						Yes
		Mettler AT200	0.5g	0.5001 g	0.4995	0.5005	
		Mettler AT200	1g	1.0001 g	0.9990	1.0010	
		Mettler AT200	20g	20.0006 g	19.9800	20.0200	
		Mettler AT200	50g	50.0014 g	49.9500	50.0500	
		Mettler AT200	100g	100.0027 g	99.9000	100.1000	
		Mettler AT200	150g	150.0041 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
11/14/12	AP	Mettler AT200	0.5g	0.5001 g	0.4995	0.5005	yes
		Mettler AT200	1g	1.0002 g	0.9990	1.0010	
		Mettler AT200	20g	20.0006 g	19.9800	20.0200	
		Mettler AT200	50g	50.0013 g	49.9500	50.0500	
		Mettler AT200	100g	100.0023 g	99.9000	100.1000	
		Mettler AT200	150g	150.0034 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.99 g	1960.00	2040.00	

Laboratory Report

Parsons

Project #: 748350.02000 CSSA

ARF: 69255

Sample collected: November 7, 2012

APPL, Inc.

Data Validatable Package

for

Project #: 748350.02000 CSSA

ARF 69255

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LABORATORY NAME: *APPL, Inc.*

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Sample Data	17
Calibration Data	20
Raw Data	45

CASE NARRATIVE

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

EPA Method 6010B
Lead

Case Narrative

ARF: 69255

Project: 748350.02000 CSSA

California State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Texas Certificate Number: T104704242-10-3

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

The sample was received November 9, 2012, at 3.0°C. The sample was assigned Analytical Request Form (ARF) number 69255. The sample number and requested analysis were compared to the chains of custody. No exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
GT12021M	AY71560	MISC	11/07/12	11/09/12

Percent moisture was determined using CLP 4.0.

As requested, the sample is reported "as is", without moisture correction.

Digestion Information:

The miscellaneous sample was homogenized and digested according to EPA method 3050B. No exception was encountered. All holding times were met.

Analysis Information:

Samples:

The sample was analyzed for lead according to EPA method 6010B using a Perkin Elmer Optima 5300DV ICP.

Calibrations:

Calibrations were performed according to the method for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard. All calibration acceptance criteria were met.

Blanks:

No target metal was detected above the practical quantitation limit (PQL) in the method blank.

Spikes:

Laboratory Control Spike (LCS), post-digestion spike (PDS), and dilution test were used for quality assurance. All LCS acceptance criteria were met.

Sample GT12021M was selected by the laboratory for QC analysis. The dilution test was not applicable. The PDS met acceptance criteria.

Summary:

No analytical exception is noted.

CERTIFICATION

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. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

11-20-12

Sharon Dehmlow, Laboratory Director / Date

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 69255

Client: **Parsons**
Address: **8000 Centre Park Drive Ste 200**
Austin, TX 78754
Attn: **Tammy Chang**
Phone: **512-719-6092** Fax: **512-719-6099**
Job: **748350.02000 CSSA**
PO #: **748350.30002 (prime *G012)**
Chain of Custody (Y/N): **Y** # **110812APPFA**
RAD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **7 DAYS**

Received by: **WLA**
Date Received: **11/09/12** Time: **11:25**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-6**
Chest Temp(s): **3.0°C**
Color: **A_FREZ**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Diane Anderson** DA
QC Report Type: **DVP4/AFCEE/ERPIMS/TX**
Due Date: **11/16/12**

Comments:
Prelim muscle (meat) data due in 7 calendar days; final report due in 21 calendar days. DA
pdf ARF to Tammy & Pam; send 1 DVP3 HC & send DVP3 & DVP4 on CD to Tammy. DA

Case Narrative. CSSA QAPP. Only report MS/MSD when requested. DA
Report results on APPL forms: U to the RL; report results in wet weight (without moisture correction) DA
Wait to do moisture analysis after metals analysis. DA
EDD: ERPIMS 4 Lab PC4 checked TXF to Pam.Ford@parsons.com DA

11-9 Sent ARF

Sample Distribution:
Metals: 1-$6010BDODS(Pb)
Wetlab: 1-MOIST
Other: 1-_M3050

Charges:

Invoice To:
PARSONS GOV'T SERV.
8000 Centre Park Drive Ste 200
Austin, TX 78754-5140
Attn: Ellen Felfe

Client ID	APPL ID	Sampled	Analyses Requested
1. GT12021M	AY71560M	11/07/12 18:00	$6010BDODS(Pb), MOIST

Note: All times, excluding sample collection times, are Pacific Time Zone unless noted otherwise. Collection times are in: -6 UTC

APPL Sample Receipt Form

ARF# **69255**

Sample	Container Type	Count	pH	Sample	Container Type	Count	pH
AY71560	35 Plastic Bag	1	NA				

APPL - Receiving

From: Renee Patterson [rpatterson@applinc.com]
Sent: Thursday, November 08, 2012 1:48 PM
To: receiving@applinc.com; 'Leonard Fong'; 'Metals'
Subject: FW: deer sample to APPL
Attachments: 110812_APPL.pdf; 110812APPFA_SAMPLES.TXT

From: Chang, Tammy [mailto:Tammy.Chang@parsons.com]
Sent: Thursday, November 08, 2012 1:17 PM
To: Diane Anderson; Renee Patterson; Jeremy Hale; rwise
Cc: Burdey, Julie; Rembish, Steve J; Ford, Pamela; de las Fuentes, Sandra
Subject: FW: deer samp to APPL

One deer with three body parts will be delivered to your lab tomorrow morning. Sam placed each body part in its own plastic bag. Muscle sample needs to be processed within 7 business days (preferable to be done by next Friday) and others with 21 calendar days.

Tammy

From: Elliott, Samantha
Sent: Thursday, November 08, 2012 3:13 PM
To: Chang, Tammy; de las Fuentes, Sandra
Cc: Rembish, Steve J; Burdey, Julie
Subject: deer samp to APPL

One cooler going to APPL today, see attached.

Thanks,
Samantha Elliott
Scientist
(210) 347-6012
PARSONS

Camp Stanley Storage Activity Chain Of Custody

692S4/69255 3.0°C

COC ID:	110812APPFA	Relinquish_Date:	11/8/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF
Job Number:	748350.02000	Relinquish_Time:	4:00 PM	Carrier:	FedEx
Creation Date:	11/8/2012	Collection Team:	SE	Airbill Carrier:	876436444226
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): Sam Elliott S. Elliott

LOCID: **GT12021B** LOGDATE: **11/7/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **18:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12021B_110712_N1800** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12021L** LOGDATE: **11/7/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **18:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12021L_110712_N1800** EBLOT: Containers: 1
Remarks: **gunshot lacerated liver**
Analysis Required: SW6010B LEAD

LOCID: **GT12021M** LOGDATE: **11/7/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **18:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12021M_110712_N1800** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

Relinquished by: S. Elliott Date 11/8/12 Time 1600
Recieved by: _____ Date _____ Time _____

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date 11/9/12 Time 1123

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date _____ Time _____

Camp Stanley Storage Activity Chain Of Custody

COC ID:	110812APPFA	Relinquish_Date:	11/8/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF
Job Number:	748350.02000	Relinquish_Time:	4:00 PM	Carrier:	FedEx
Creation Date:	11/8/2012	Collection Team:	SE	Airbill Carrier:	876436444226
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): Sam Elliott

LOCID: **GT12021B** LOGDATE: **11/7/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **18:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12021B_110712_N1800** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12021L** LOGDATE: **11/7/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **18:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12021L_110712_N1800** EBLOT: Containers: 1
Remarks: **gunshot lacerated liver**
Analysis Required: SW6010B LEAD

LOCID: **GT12021M** LOGDATE: **11/7/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **18:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12021M_110712_N1800** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

Relinquished by: _____ Date 11/8/12 Time 1600
Recieved by: _____ Date _____ Time _____

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date 11/9/12 Time 1123

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date _____ Time _____

COOLER RECEIPT FORM

1) Project: 748350.02000CSSA Date Received: 11/9/12

2) Coolers: Number of Coolers: 1

3) YES NO Were coolers and samples screened for radioactivity?

4) YES NO Were custody seals on outside of cooler? How many? 1 Date on seal? 11/8/12

5) Name on seal? See Below

6) YES NO NA Were custody seals unbroken and intact at the time of arrival?

7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed EX

8) Shipping slip numbers: 1) 876436044226 2) _____ 3) _____

9) YES NO NA Was the shipping slip scanned into the database?

10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Wet ice

12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?

13) YES NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: IA39267 Correction factor: 0

15) Cooler temp(s): 1) 30°C 2) _____ 3) _____ 4) _____ 5) _____ 6) _____ 7) _____

Chain of custody:

16) YES NO Was a chain of custody received?

17) YES NO Were the custody papers signed in the appropriate places?

18) YES NO Was the project identifiable from custody papers?

19) YES NO Did the chain of custody include date and time of sampling?

20) YES NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) YES NO Were container labels in good condition?

22) YES NO Was the client ID on the label?

23) YES NO Was the date of sampling on the label?

24) YES NO Was the time of sampling on the label?

25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?

27) YES NO Did all containers arrive unbroken?

28) YES NO Was there any leakage from samples?

29) YES NO Were any of the lids cracked or broken?

30) YES NO Were correct containers used for the tests indicated?

31) YES NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea: _____

Smaller than a pea: _____

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO NA Unpreserved VOA Vials received? _____

38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF? _____

CUSTODY SEAL
APPL, Inc.
(559) 275-2175
Initials SE
Date 11/8/12

Lab notified if pH was not adequate: _____

Deficiencies: _____

Signature of personnel receiving samples: _____ Second reviewer: _____

Signature of project manager notified: _____ Date and Time of notification: _____

Name of client notified: _____ Date and Time of notification: _____

Information given to client: _____

_____ by whom (Initials): _____

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/13/12	11/13/12	#6010B-121113A-AY71560

Metals SC-Blank-REG MDLs
Printed: 11/20/12 11:44:55 AM

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.0	10.5	105	80-120	11/13/12	11/13/12	#6010B-121113A-AY71560

Comments: _____

METALS
Sample Data

APPL, INC.

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12021M
Sample Collection Date: 11/07/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69255
APPL ID: AY71560

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/13/12	11/13/12

Printed: 11/20/12 11:44:58 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 116
Sample ID: AY71560M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.53 g
Dilution:

Autosampler Location: 122
Date Collected: 11/13/12 8:30:19 PM
Data Type: Reprocessed on 11/14/12 11:09:13 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71560M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	204.7	1.628	ug/L	1.2159	0.064	mg/kg	0.0481	74.68%
Al 308.215	26.7	15.75	ug/L	10.660	0.622	mg/kg	0.4214	67.70%
As 188.979	2.3	0.488	ug/L	0.3524	0.019	mg/kg	0.0139	72.26%
B	16.5	5.584	ug/L	0.3701	0.221	mg/kg	0.0146	6.63%
Ba 233.527	265.5	1.337	ug/L	0.0779	0.053	mg/kg	0.0031	5.83%
Be 313.107	-1237.3	-0.207	ug/L	0.0077	-0.008	mg/kg	0.0003	3.72%
Ca 315.887	11932.2	1017	ug/L	12.6	40.18	mg/kg	0.497	1.24%
Cd 214.440	68.3	0.133	ug/L	0.0404	0.005	mg/kg	0.0016	30.33%
Co 228.616	48.6	0.671	ug/L	0.2718	0.027	mg/kg	0.0107	40.52%
Cr 267.716	225.1	1.718	ug/L	0.3269	0.068	mg/kg	0.0129	19.03%
Cu 327.393	2110.5	20.12	ug/L	0.576	0.795	mg/kg	0.0228	2.86%
Fe 273.955	11763.0	456.7	ug/L	2.12	18.05	mg/kg	0.084	0.46%
K 766.490	171683.6	83820	ug/L	851.4	3313	mg/kg	33.7	1.02%
Mg 285.213	93702.3	4780	ug/L	57.1	188.9	mg/kg	2.26	1.20%
Mn 257.610	105.1	1.624	ug/L	0.1466	0.064	mg/kg	0.0058	9.02%
Mo 202.031	2.1	0.262	ug/L	0.1876	0.010	mg/kg	0.0074	71.66%
Na 589.592	81791.2	5898	ug/L	72.2	233.1	mg/kg	2.85	1.22%
Ni 231.604	-43.8	-0.785	ug/L	0.1049	-0.031	mg/kg	0.0041	13.37%
P 213.617	250912.0	39050	ug/L	629.3	1543	mg/kg	24.9	1.61%
Pb 220.353	-8.8	-0.617	ug/L	0.7017	-0.024	mg/kg	0.0277	113.75%
Sb 206.836	-1.3	-0.238	ug/L	0.9927	-0.009	mg/kg	0.0392	417.60%
Se 196.026	72.4	11.60	ug/L	0.838	0.459	mg/kg	0.0331	7.22%
Sn 189.927	-83.2	-11.90	ug/L	1.058	-0.470	mg/kg	0.0418	8.89%
Sr 421.552	1350.7	1.516	ug/L	0.0735	0.060	mg/kg	0.0029	4.85%
Ti 337.279	60.6	1.047	ug/L	0.3801	0.041	mg/kg	0.0150	36.30%
Tl 190.801	-5.9	-0.952	ug/L	0.4655	-0.038	mg/kg	0.0184	48.88%
V 292.402	-74.0	-0.537	ug/L	0.1524	-0.021	mg/kg	0.0060	28.40%
Zn 206.200	101958.8	1199	ug/L	15.4	47.41	mg/kg	0.609	1.28%

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69255 SDG: 69255
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/13/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:26	%R(1)	True CCV1	Found 11:59	%R(1)	True CCV1	Found 19:43	%R(1)	
Lead (Pb)	1000	1041	104	1000	1031	103	1000	1054	105	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69255 SDG: 69255
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/13/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:26	%R(1)	True CCV2	Found 20:37	%R(1)	True CCV1	Found 21:10	%R(1)	
Lead (Pb)	1000	1041	104	750	718.1	95.7	1000	997.9	99.8	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69255 SDG: 69255

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 11/13/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C			
	11:30		12:03		19:47		20:41		19:51				
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U	P		

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69255 SDG: 69255

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 11/13/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
	C		1	C	2	C	3	C		C	
	11:30		21:14						19:51		
Lead (Pb)	5.00	U	5.00	U					.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name:	A.P.P.L. INC.	Contract:	Parsons
ARF No.:	69255	SDG:	69255
ICP ID Number:	Phoebe	ICS Source:	Environmental Express

Analysis Date: 11/13/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 11:39	Sol AB 11:43	%R(1)
Aluminum (Al)	200000	200000	189600	185600	92.8
Calcium (Ca)	200000	200000	191600	187300	93.7
Iron (Fe)	200000	200000	178500	174900	87.5
Magnesium (Mg)	200000	200000	186600	183100	91.5
Lead (Pb)		1000	ND	954.1	95.4

(1) Control Limits: Metals 80-120

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

GT12021M

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69255 SDG: 69255

Analysis Date: 11/13/12 Concentration Units: mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	18.66		ND		19.763	94.4		

Comments:

11/13/12 20:30 AY71560M01

11/13/12 20:54 AY71560M01-A

Sequence No.: 121
Sample ID: AY71560M01-A
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.53 g
Dilution:

Autosampler Location: 125
Date Collected: 11/13/12 8:54:33 PM
Data Type: Reprocessed on 11/14/12 11:09:18 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71560M01-A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	19342.8	153.9	ug/L	1.79	6.081	mg/kg	0.0709	1.17%
Al 308.215	5764.3	3380	ug/L	25.7	133.6	mg/kg	1.02	0.76%
As 188.979	2057.8	431.4	ug/L	1.21	17.05	mg/kg	0.048	0.28%
B	1729.2	412.2	ug/L	6.59	16.29	mg/kg	0.260	1.60%
Ba 233.527	74134.0	461.7	ug/L	5.69	18.25	mg/kg	0.225	1.23%
Be 313.107	555581.7	92.93	ug/L	1.642	3.673	mg/kg	0.0649	1.77%
Ca 315.887	519255.1	44470	ug/L	713.0	1758	mg/kg	28.2	1.60%
Cd 214.440	29916.6	93.66	ug/L	0.136	3.702	mg/kg	0.0054	0.15%
Co 228.616	33494.9	505.1	ug/L	0.89	19.97	mg/kg	0.035	0.18%
Cr 267.716	64236.3	485.7	ug/L	5.19	19.20	mg/kg	0.205	1.07%
Cu 327.393	52957.1	504.9	ug/L	9.16	19.96	mg/kg	0.362	1.82%
Fe 273.955	59295.0	2272	ug/L	30.1	89.79	mg/kg	1.191	1.33%
K 766.490	174597.3	85240	ug/L	1013.0	3369	mg/kg	40.0	1.19%
Mg 285.213	895283.0	45680	ug/L	620.5	1806	mg/kg	24.5	1.36%
Mn 257.610	24773.9	441.3	ug/L	5.03	17.44	mg/kg	0.199	1.14%
Mo 202.031	19580.3	494.0	ug/L	1.28	19.53	mg/kg	0.051	0.26%
Na 589.592	700617.0	50770	ug/L	671.2	2007	mg/kg	26.5	1.32%
Ni 231.604	29470.7	482.9	ug/L	0.57	19.09	mg/kg	0.023	0.12%
P 213.617	269756.8	41980	ug/L	540.8	1659	mg/kg	21.4	1.29%
Pb 220.353	6708.6	472.2	ug/L	1.43	18.66	mg/kg	0.057	0.30%
Sb 206.836	2430.8	442.8	ug/L	0.29	17.50	mg/kg	0.011	0.07%
Se 196.026	2322.0	439.2	ug/L	4.24	17.36	mg/kg	0.168	0.97%
Sn 189.927	3757.2	537.4	ug/L	0.26	21.24	mg/kg	0.010	0.05%
Sr 421.552	475718.2	451.3	ug/L	6.67	17.84	mg/kg	0.264	1.48%
Ti 337.279	17996.0	434.5	ug/L	5.48	17.17	mg/kg	0.216	1.26%
Tl 190.801	2738.8	439.5	ug/L	2.18	17.37	mg/kg	0.086	0.50%
V 292.402	112071.1	495.4	ug/L	6.31	19.58	mg/kg	0.249	1.27%
Zn 206.200	173758.1	2049	ug/L	20.5	80.99	mg/kg	0.810	1.00%

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 121113A6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1 Autosampler Location: 1
Sample ID: CalBlk 121113EA I:PB O:EA Date Collected: 11/13/12 11:11:40 AM
Analyst: Data Type: Reprocessed on 11/14/12 11:07:13 AM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CalBlk 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-533.0	108.61	20.38%	[0.00]	ug/L
Al 308.215	96.2	5.76	5.99%	[0.00]	ug/L
As 188.979	-7.2	5.49	76.00%	[0.00]	ug/L
B	23.5	6.74	28.71%	[0.00]	ug/L
Ba 233.527	110.0	10.69	9.72%	[0.00]	ug/L
Be 313.107	1315.7	41.65	3.17%	[0.00]	ug/L
Ca 315.887	-391.7	15.24	3.89%	[0.00]	ug/L
Cd 214.440	558.8	5.51	0.99%	[0.00]	ug/L
Co 228.616	52.8	21.57	40.84%	[0.00]	ug/L
Cr 267.716	519.1	15.62	3.01%	[0.00]	ug/L
Cu 327.393	-24.1	17.62	73.25%	[0.00]	ug/L
Fe 273.955	39.0	20.40	52.25%	[0.00]	ug/L
K 766.490	40.0	92.74	231.71%	[0.00]	ug/L
Mg 285.213	-32.2	9.74	30.26%	[0.00]	ug/L
Mn 257.610	-18.0	9.56	53.05%	[0.00]	ug/L
Mo 202.031	165.4	8.96	5.41%	[0.00]	ug/L
Na 589.592	-436.2	12.17	2.79%	[0.00]	ug/L
Ni 231.604	-262.3	14.06	5.36%	[0.00]	ug/L
P 213.617	20.0	10.32	51.60%	[0.00]	ug/L
Pb 220.353	-34.0	5.85	17.20%	[0.00]	ug/L
Sb 206.836	2.6	2.83	107.11%	[0.00]	ug/L
Se 196.026	-6.6	8.25	124.66%	[0.00]	ug/L
Sn 189.927	7.3	4.13	56.47%	[0.00]	ug/L
Sr 421.552	547.9	110.05	20.09%	[0.00]	ug/L
Ti 337.279	-331.4	19.37	5.84%	[0.00]	ug/L
Tl 190.801	-5.1	4.18	81.58%	[0.00]	ug/L
V 292.402	-889.9	14.14	1.59%	[0.00]	ug/L
Zn 206.200	-102.4	24.73	24.16%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/13/12 11:16:00 AM
Data Type: Reprocessed on 11/14/12 11:07:14 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	175.9	35.76	20.33%	[1.00]	ug/L
Al 308.215	179.4	8.77	4.89%	[100.00]	ug/L
As 188.979	27.4	4.54	16.61%	[3.50]	ug/L
B	216.2	4.59	2.12%	[50.00]	ug/L
Ba 233.527	851.2	8.85	1.04%	[5.00]	ug/L
Be 313.107	12470.5	154.16	1.24%	[2.00]	ug/L
Ca 315.887	1193.5	26.23	2.20%	[100.00]	ug/L
Cd 214.440	1783.4	7.21	0.40%	[5.00]	ug/L
Co 228.616	378.7	22.26	5.88%	[5.00]	ug/L
Cr 267.716	735.8	15.73	2.14%	[5.00]	ug/L
Cu 327.393	483.0	47.92	9.92%	[5.00]	ug/L
Fe 273.955	1325.0	7.74	0.58%	[50.00]	ug/L
K 766.490	1879.5	95.58	5.09%	[1000.00]	ug/L
Mg 285.213	1021.8	2.55	0.25%	[50]	ug/L
Mn 257.610	286.7	7.53	2.63%	[5.00]	ug/L
Mo 202.031	204.4	6.88	3.37%	[5.00]	ug/L
Na 589.592	14211.3	246.30	1.73%	[1000.00]	ug/L
Ni 231.604	348.7	12.15	3.48%	[5.00]	ug/L
P 213.617	163.5	5.93	3.63%	[25.00]	ug/L
Pb 220.353	46.6	8.21	17.62%	[3.00]	ug/L
Sb 206.836	27.2	2.86	10.51%	[5.00]	ug/L
Se 196.026	25.1	8.38	33.39%	[5.00]	ug/L
Sn 189.927	26.7	7.92	29.64%	[5.00]	ug/L
Sr 421.552	5553.5	241.53	4.35%	[5.00]	ug/L
Ti 337.279	204.6	13.12	6.41%	[5.00]	ug/L
Tl 190.801	34.1	1.35	3.96%	[5.00]	ug/L
V 292.402	1207.9	17.47	1.45%	[5.00]	ug/L
Zn 206.200	1940.1	17.64	0.91%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/13/12 11:20:24 AM
Data Type: Reprocessed on 11/14/12 11:07:15 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	56952.4	457.49	0.80%	[500.0]	ug/L
Al 308.215	36355.4	160.07	0.44%	[20000.00]	ug/L
As 188.979	5146.9	60.41	1.17%	[1000.00]	ug/L
B	4433.0	19.25	0.43%	[1000.00]	ug/L
Ba 233.527	176039.3	385.24	0.22%	[1000.00]	ug/L
Be 313.107	6511126.3	61896.38	0.95%	[1000.00]	ug/L
Ca 315.887	629607.1	5152.90	0.82%	[50000]	ug/L
Cd 214.440	356054.2	741.11	0.21%	[1000.00]	ug/L
Co 228.616	73076.3	142.12	0.19%	[1000.00]	ug/L
Cr 267.716	146049.9	228.60	0.16%	[1000.00]	ug/L
Cu 327.393	112936.0	1245.93	1.10%	[1000.00]	ug/L
Fe 273.955	570291.2	1027.76	0.18%	[20000]	ug/L
K 766.490	42938.9	65.36	0.15%	[20000]	ug/L
Mg 285.213	1063751.6	7093.76	0.67%	[50000]	ug/L
Mn 257.610	59473.6	225.45	0.38%	[1000.00]	ug/L
Mo 202.031	37082.2	386.96	1.04%	[1000.00]	ug/L
Na 589.592	370497.3	2373.08	0.64%	[25000]	ug/L
Ni 231.604	68130.2	756.23	1.11%	[1000.00]	ug/L
P 213.617	35750.2	464.32	1.30%	[5000]	ug/L
Pb 220.353	15485.7	158.76	1.03%	[1000.00]	ug/L
Sb 206.836	5147.3	55.20	1.07%	[1000.00]	ug/L
Se 196.026	5697.5	69.59	1.22%	[1000.00]	ug/L
Sn 189.927	6258.8	57.61	0.92%	[1000.00]	ug/L
Sr 421.552	1124808.4	8005.08	0.71%	[1000.00]	ug/L
Ti 337.279	36106.3	116.31	0.32%	[1000.00]	ug/L
Tl 190.801	6748.4	75.85	1.12%	[1000.00]	ug/L
V 292.402	254006.6	549.65	0.22%	[1000.00]	ug/L
Zn 206.200	94943.0	322.73	0.34%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 11/13/12 11:23:09 AM
Data Type: Reprocessed on 11/14/12 11:07:16 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	128675.0	1019.88	0.79%	[1000.00]	ug/L
Al 308.215	67234.2	407.72	0.61%	[40000.00]	ug/L
As 188.979	9351.8	84.76	0.91%	[2000.00]	ug/L
B	8403.8	117.08	1.39%	[2000.00]	ug/L
Ba 233.527	312551.2	2411.10	0.77%	[2000.00]	ug/L
Be 313.107	11690775.9	39369.47	0.34%	[2000.00]	ug/L
Ca 315.887	1144319.9	13362.75	1.17%	[100000.0]	ug/L
Cd 214.440	621473.8	4129.84	0.66%	[2000.00]	ug/L
Co 228.616	129131.6	962.59	0.75%	[2000.00]	ug/L
Cr 267.716	257713.6	1768.45	0.69%	[2000.00]	ug/L
Cu 327.393	205764.0	1728.49	0.84%	[2000.00]	ug/L
Fe 273.955	994817.0	6994.82	0.70%	[40000]	ug/L
K 766.490	80943.5	704.09	0.87%	[40000]	ug/L
Mg 285.213	1917762.2	19838.56	1.03%	[100000]	ug/L
Mn 257.610	109978.4	732.89	0.67%	[2000.00]	ug/L
Mo 202.031	80654.6	590.44	0.73%	[2000.00]	ug/L
Na 589.592	676512.4	7136.30	1.05%	[50000]	ug/L
Ni 231.604	118165.7	911.54	0.77%	[2000.00]	ug/L
P 213.617	62443.8	437.56	0.70%	[10000]	ug/L
Pb 220.353	27773.7	158.03	0.57%	[2000.00]	ug/L
Sb 206.836	11150.6	84.55	0.76%	[2000.00]	ug/L
Se 196.026	10267.1	14.99	0.15%	[2000.00]	ug/L
Sn 189.927	14350.3	93.20	0.65%	[2000.00]	ug/L
Sr 421.552	2072748.6	23790.94	1.15%	[2000.00]	ug/L
Ti 337.279	85246.6	585.14	0.69%	[2000.00]	ug/L
Tl 190.801	12205.0	73.28	0.60%	[2000.00]	ug/L
V 292.402	450552.2	4122.35	0.91%	[2000.00]	ug/L
Zn 206.200	165204.1	740.10	0.45%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	125.7	0.00000	0.998898	
Al 308.215	3	Lin Thru 0	0.0	1.708	0.00000	0.999486	
As 188.979	3	Lin Thru 0	0.0	4.770	0.00000	0.999221	
B	3	Lin Thru 0	0.0	4.248	0.00000	0.999763	
Ba 233.527	3	Lin Thru 0	0.0	160.2	0.00000	0.998785	
Be 313.107	3	Lin Thru 0	0.0	5979	0.00000	0.999009	
Ca 315.887	3	Lin Thru 0	0.0	11.67	0.00000	0.999226	
Cd 214.440	3	Lin Thru 0	0.0	319.8	0.00000	0.998397	
Co 228.616	3	Lin Thru 0	0.0	66.27	0.00000	0.998683	
Cr 267.716	3	Lin Thru 0	0.0	132.3	0.00000	0.998652	
Cu 327.393	3	Lin Thru 0	0.0	104.9	0.00000	0.999266	
Fe 273.955	3	Lin Thru 0	0.0	25.60	0.00000	0.998383	
K 766.490	3	Lin Thru 0	0.0	2.048	0.00000	0.999708	
Mg 285.213	3	Lin Thru 0	0.0	19.60	0.00000	0.999085	
Mn 257.610	3	Lin Thru 0	0.0	55.89	0.00000	0.999485	
Mo 202.031	3	Lin Thru 0	0.0	39.68	0.00000	0.999465	
Na 589.592	3	Lin Thru 0	0.0	13.79	0.00000	0.999301	
Ni 231.604	3	Lin Thru 0	0.0	60.89	0.00000	0.998239	
P 213.617	3	Lin Thru 0	0.0	6.426	0.00000	0.998414	
Pb 220.353	3	Lin Thru 0	0.0	14.21	0.00000	0.998988	
Sb 206.836	3	Lin Thru 0	0.0	5.490	0.00000	0.999514	
Se 196.026	3	Lin Thru 0	0.0	5.246	0.00000	0.999077	
Sn 189.927	3	Lin Thru 0	0.0	6.992	0.00000	0.998628	
Sr 421.552	3	Lin Thru 0	0.0	1054	0.00000	0.999437	
Ti 337.279	3	Lin Thru 0	0.0	41.32	0.00000	0.998016	
Tl 190.801	3	Lin Thru 0	0.0	6.232	0.00000	0.999142	

V 292.402	3	Lin Thru 0	0.0	231.0	0.00000	0.998765
Zn 206.200	3	Lin Thru 0	0.0	85.07	0.00000	0.998320

Sequence No.: 5
Sample ID: ICV 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 11/13/12 11:26:24 AM
Data Type: Reprocessed on 11/14/12 11:07:17 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65262.0	519.1	ug/L	14.40	519.1	ug/L	14.40	2.77%
QC value within limits for Ag 338.289 Recovery = 103.82%								
Al 308.215	40867.2	23930	ug/L	588.5	23930	ug/L	588.5	2.46%
QC value within limits for Al 308.215 Recovery = 95.74%								
As 188.979	4614.1	967.3	ug/L	4.89	967.3	ug/L	4.89	0.51%
QC value within limits for As 188.979 Recovery = 96.73%								
B	4103.4	1044	ug/L	22.7	1044	ug/L	22.7	2.17%
QC value within limits for B Recovery = 104.40%								
Ba 233.527	161857.4	998.5	ug/L	23.11	998.5	ug/L	23.11	2.31%
QC value within limits for Ba 233.527 Recovery = 99.85%								
Be 313.107	6106345.0	1021	ug/L	20.4	1021	ug/L	20.4	1.99%
QC value within limits for Be 313.107 Recovery = 102.14%								
Ca 315.887	291522.6	24960	ug/L	228.9	24960	ug/L	228.9	0.92%
QC value within limits for Ca 315.887 Recovery = 99.86%								
Cd 214.440	330720.1	1033	ug/L	21.2	1033	ug/L	21.2	2.06%
QC value within limits for Cd 214.440 Recovery = 103.33%								
Co 228.616	68566.1	1034	ug/L	23.6	1034	ug/L	23.6	2.28%
QC value within limits for Co 228.616 Recovery = 103.38%								
Cr 267.716	136000.4	1029	ug/L	21.0	1029	ug/L	21.0	2.04%
QC value within limits for Cr 267.716 Recovery = 102.92%								
Cu 327.393	103572.3	987.4	ug/L	26.42	987.4	ug/L	26.42	2.68%
QC value within limits for Cu 327.393 Recovery = 98.74%								
Fe 273.955	640654.2	24940	ug/L	552.0	24940	ug/L	552.0	2.21%
QC value within limits for Fe 273.955 Recovery = 99.77%								
K 766.490	49560.6	24190	ug/L	458.3	24190	ug/L	458.3	1.90%
QC value within limits for K 766.490 Recovery = 96.74%								
Mg 285.213	491571.4	25110	ug/L	235.6	25110	ug/L	235.6	0.94%
QC value within limits for Mg 285.213 Recovery = 100.45%								
Mn 257.610	57169.0	1024	ug/L	26.0	1024	ug/L	26.0	2.54%
QC value within limits for Mn 257.610 Recovery = 102.37%								
Mo 202.031	41257.2	1042	ug/L	21.8	1042	ug/L	21.8	2.10%
QC value within limits for Mo 202.031 Recovery = 104.24%								
Na 589.592	336683.4	24400	ug/L	226.5	24400	ug/L	226.5	0.93%
QC value within limits for Na 589.592 Recovery = 97.59%								
Ni 231.604	64010.3	1049	ug/L	21.9	1049	ug/L	21.9	2.09%
QC value within limits for Ni 231.604 Recovery = 104.95%								
P 213.617	30370.5	4727	ug/L	110.0	4727	ug/L	110.0	2.33%
QC value within limits for P 213.617 Recovery = 94.53%								
Pb 220.353	14792.2	1041	ug/L	3.9	1041	ug/L	3.9	0.37%
QC value within limits for Pb 220.353 Recovery = 104.12%								
Sb 206.836	6007.0	1094	ug/L	7.1	1094	ug/L	7.1	0.65%
QC value within limits for Sb 206.836 Recovery = 109.42%								
Se 196.026	5153.5	993.3	ug/L	8.99	993.3	ug/L	8.99	0.90%
QC value within limits for Se 196.026 Recovery = 99.33%								
Sn 189.927	3804.2	544.1	ug/L	0.94	544.1	ug/L	0.94	0.17%
QC value within limits for Sn 189.927 Recovery = 108.82%								
Sr 421.552	1041400.3	987.8	ug/L	9.63	987.8	ug/L	9.63	0.97%
QC value within limits for Sr 421.552 Recovery = 98.78%								
Ti 337.279	39573.2	957.3	ug/L	24.50	957.3	ug/L	24.50	2.56%
QC value within limits for Ti 337.279 Recovery = 95.73%								
Tl 190.801	6337.6	1017	ug/L	6.7	1017	ug/L	6.7	0.66%
QC value within limits for Tl 190.801 Recovery = 101.70%								
V 292.402	234697.6	1033	ug/L	23.2	1033	ug/L	23.2	2.24%
QC value within limits for V 292.402 Recovery = 103.31%								
Zn 206.200	90111.0	1069	ug/L	21.8	1069	ug/L	21.8	2.04%
QC value within limits for Zn 206.200 Recovery = 106.88%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICB 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/13/12 11:30:30 AM
Data Type: Reprocessed on 11/14/12 11:07:18 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	40.1	0.319	ug/L	1.2307	0.319	ug/L	1.2307	385.44%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	12.8	7.493	ug/L	5.2392	7.493	ug/L	5.2392	69.92%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	6.0	1.264	ug/L	1.5597	1.264	ug/L	1.5597	123.42%
QC value within limits for As 188.979 Recovery = Not calculated								
B	40.8	9.599	ug/L	1.1084	9.599	ug/L	1.1084	11.55%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-13.3	-0.084	ug/L	0.0081	-0.084	ug/L	0.0081	9.72%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-49.2	-0.008	ug/L	0.0097	-0.008	ug/L	0.0097	118.22%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	0.7	0.059	ug/L	1.3560	0.059	ug/L	1.3560	>999.9%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	4.4	0.014	ug/L	0.0073	0.014	ug/L	0.0073	52.99%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	22.8	0.345	ug/L	0.3115	0.345	ug/L	0.3115	90.21%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	9.7	0.073	ug/L	0.2015	0.073	ug/L	0.2015	276.34%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	91.7	0.875	ug/L	0.3493	0.875	ug/L	0.3493	39.93%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	12.4	0.507	ug/L	0.9739	0.507	ug/L	0.9739	192.28%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	53.3	26.02	ug/L	109.022	26.02	ug/L	109.022	419.01%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	12.3	0.627	ug/L	0.8505	0.627	ug/L	0.8505	135.61%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	3.1	0.055	ug/L	0.1367	0.055	ug/L	0.1367	249.83%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	7.7	0.194	ug/L	0.1534	0.194	ug/L	0.1534	78.92%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	141.7	10.27	ug/L	3.866	10.27	ug/L	3.866	37.65%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-0.1	-0.002	ug/L	0.2021	-0.002	ug/L	0.2021	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-1.7	-0.269	ug/L	1.0203	-0.269	ug/L	1.0203	378.91%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	8.5	0.599	ug/L	0.3709	0.599	ug/L	0.3709	61.88%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-0.1	-0.017	ug/L	1.4900	-0.017	ug/L	1.4900	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	1.3	0.252	ug/L	1.7289	0.252	ug/L	1.7289	686.47%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-6.4	-0.922	ug/L	0.2722	-0.922	ug/L	0.2722	29.52%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	19.6	0.019	ug/L	0.0417	0.019	ug/L	0.0417	223.23%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-5.0	-0.120	ug/L	0.1340	-0.120	ug/L	0.1340	111.26%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	4.7	0.757	ug/L	0.4461	0.757	ug/L	0.4461	58.91%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-66.3	-0.284	ug/L	0.0749	-0.284	ug/L	0.0749	26.41%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-18.1	-0.212	ug/L	0.0347	-0.212	ug/L	0.0347	16.39%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 11/13/12 11:39:18 AM
Data Type: Reprocessed on 11/14/12 11:07:20 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	71.4	0.568	ug/L	0.3841	0.568	ug/L	0.3841	67.60%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	323838.2	189600	ug/L	1572.9	189600	ug/L	1572.9	0.83%
QC value within limits for Al 308.215 Recovery = 94.80%								
As 188.979	2.0	0.424	ug/L	1.1273	0.424	ug/L	1.1273	266.06%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2147.9	59.29	ug/L	21.856	59.29	ug/L	21.856	36.86%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	15691.2	9.322	ug/L	2.7655	9.322	ug/L	2.7655	29.67%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-478.6	-0.080	ug/L	0.0023	-0.080	ug/L	0.0023	2.82%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2237030.6	191600	ug/L	1713.3	191600	ug/L	1713.3	0.89%
QC value within limits for Ca 315.887 Recovery = 95.80%								
Cd 214.440	3291.4	-0.598	ug/L	0.1038	-0.598	ug/L	0.1038	17.35%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	327.5	-0.476	ug/L	0.3324	-0.476	ug/L	0.3324	69.77%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-221.9	-0.573	ug/L	0.0584	-0.573	ug/L	0.0584	10.19%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	99.7	0.951	ug/L	0.0820	0.951	ug/L	0.0820	8.62%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4570520.1	178500	ug/L	2933.7	178500	ug/L	2933.7	1.64%
QC value within limits for Fe 273.955 Recovery = 89.26%								
K 766.490	29.8	-99.12	ug/L	69.388	-99.12	ug/L	69.388	70.01%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3652398.9	186600	ug/L	1692.5	186600	ug/L	1692.5	0.91%
QC value within limits for Mg 285.213 Recovery = 93.29%								
Mn 257.610	-11.9	3.498	ug/L	0.8296	3.498	ug/L	0.8296	23.72%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-579.8	-1.073	ug/L	0.3183	-1.073	ug/L	0.3183	29.66%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	44.4	-41.20	ug/L	4.735	-41.20	ug/L	4.735	11.49%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-108.3	0.085	ug/L	0.3504	0.085	ug/L	0.3504	411.01%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-22.2	-3.451	ug/L	2.3706	-3.451	ug/L	2.3706	68.69%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-16.1	-1.135	ug/L	0.5854	-1.135	ug/L	0.5854	51.57%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-17.3	-3.146	ug/L	0.4996	-3.146	ug/L	0.4996	15.88%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-469.9	-3.435	ug/L	4.1145	-3.435	ug/L	4.1145	119.79%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-22.9	-3.272	ug/L	0.3468	-3.272	ug/L	0.3468	10.60%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2353.2	0.860	ug/L	0.1405	0.860	ug/L	0.1405	16.34%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	127.2	-0.268	ug/L	0.8543	-0.268	ug/L	0.8543	319.10%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-3.6	-0.573	ug/L	0.4517	-0.573	ug/L	0.4517	78.78%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	10535.5	0.007	ug/L	0.6032	0.007	ug/L	0.6032	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	935.4	1.914	ug/L	0.0684	1.914	ug/L	0.0684	3.57%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 11/13/12 11:43:25 AM
Data Type: Reprocessed on 11/14/12 11:07:21 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	130908.6	1041	ug/L	15.1	1041	ug/L	15.1	1.45%
QC value within limits for Ag 338.289 Recovery = 104.13%								
Al 308.215	317010.7	185600	ug/L	2409.9	185600	ug/L	2409.9	1.30%
QC value within limits for Al 308.215 Recovery = 92.80%								
As 188.979	2266.7	475.2	ug/L	1.81	475.2	ug/L	1.81	0.38%
QC value within limits for As 188.979 Recovery = 95.04%								
B	-2101.5	58.53	ug/L	3.285	58.53	ug/L	3.285	5.61%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	90497.9	478.3	ug/L	5.41	478.3	ug/L	5.41	1.13%
QC value within limits for Ba 233.527 Recovery = 95.67%								
Be 313.107	2825220.7	472.6	ug/L	5.45	472.6	ug/L	5.45	1.15%
QC value within limits for Be 313.107 Recovery = 94.51%								
Ca 315.887	2186531.6	187300	ug/L	2446.3	187300	ug/L	2446.3	1.31%
QC value within limits for Ca 315.887 Recovery = 93.64%								
Cd 214.440	303594.7	938.9	ug/L	9.95	938.9	ug/L	9.95	1.06%
QC value within limits for Cd 214.440 Recovery = 93.89%								
Co 228.616	31221.2	466.8	ug/L	5.27	466.8	ug/L	5.27	1.13%
QC value within limits for Co 228.616 Recovery = 93.36%								
Cr 267.716	62893.4	477.0	ug/L	3.70	477.0	ug/L	3.70	0.78%
QC value within limits for Cr 267.716 Recovery = 95.41%								
Cu 327.393	51611.3	492.0	ug/L	6.83	492.0	ug/L	6.83	1.39%
QC value within limits for Cu 327.393 Recovery = 98.41%								
Fe 273.955	4480085.7	174900	ug/L	1448.5	174900	ug/L	1448.5	0.83%
QC value within limits for Fe 273.955 Recovery = 87.47%								
K 766.490	63.5	-81.64	ug/L	66.879	-81.64	ug/L	66.879	81.91%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3585094.2	183100	ug/L	2206.0	183100	ug/L	2206.0	1.20%
QC value within limits for Mg 285.213 Recovery = 91.57%								
Mn 257.610	26107.9	470.9	ug/L	0.80	470.9	ug/L	0.80	0.17%
QC value within limits for Mn 257.610 Recovery = 94.17%								
Mo 202.031	19195.9	497.4	ug/L	0.74	497.4	ug/L	0.74	0.15%
QC value within limits for Mo 202.031 Recovery = 99.49%								
Na 589.592	158.0	-33.88	ug/L	12.535	-33.88	ug/L	12.535	36.99%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	57439.9	944.3	ug/L	10.01	944.3	ug/L	10.01	1.06%
QC value within limits for Ni 231.604 Recovery = 94.43%								
P 213.617	7.3	1.141	ug/L	0.9292	1.141	ug/L	0.9292	81.47%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	13554.4	954.1	ug/L	3.49	954.1	ug/L	3.49	0.37%
QC value within limits for Pb 220.353 Recovery = 95.41%								
Sb 206.836	2775.4	505.6	ug/L	1.82	505.6	ug/L	1.82	0.36%
QC value within limits for Sb 206.836 Recovery = 101.11%								
Se 196.026	2048.2	474.8	ug/L	1.56	474.8	ug/L	1.56	0.33%
QC value within limits for Se 196.026 Recovery = 94.95%								
Sn 189.927	-26.3	-3.756	ug/L	2.1963	-3.756	ug/L	2.1963	58.47%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2269.9	0.813	ug/L	0.0677	0.813	ug/L	0.0677	8.32%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	107.7	-0.626	ug/L	0.4432	-0.626	ug/L	0.4432	70.75%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2871.5	460.8	ug/L	0.65	460.8	ug/L	0.65	0.14%
QC value within limits for Tl 190.801 Recovery = 92.16%								
V 292.402	122559.1	497.4	ug/L	6.22	497.4	ug/L	6.22	1.25%
QC value within limits for V 292.402 Recovery = 99.47%								
Zn 206.200	81292.5	951.5	ug/L	8.17	951.5	ug/L	8.17	0.86%
QC value within limits for Zn 206.200 Recovery = 95.15%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/13/12 11:59:34 AM
Data Type: Reprocessed on 11/14/12 11:07:22 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65594.0	521.7	ug/L	2.41	521.7	ug/L	2.41	0.46%
QC value within limits for Ag 338.289 Recovery = 104.35%								
Al 308.215	34344.7	20110	ug/L	248.2	20110	ug/L	248.2	1.23%
QC value within limits for Al 308.215 Recovery = 100.57%								
As 188.979	4818.5	1010	ug/L	1.2	1010	ug/L	1.2	0.12%
QC value within limits for As 188.979 Recovery = 101.01%								
B	4243.1	1060	ug/L	21.0	1060	ug/L	21.0	1.98%
QC value within limits for B Recovery = 106.05%								
Ba 233.527	162615.1	1006	ug/L	4.4	1006	ug/L	4.4	0.44%
QC value within limits for Ba 233.527 Recovery = 100.55%								
Be 313.107	6141152.6	1027	ug/L	4.6	1027	ug/L	4.6	0.44%
QC value within limits for Be 313.107 Recovery = 102.72%								
Ca 315.887	586345.0	50220	ug/L	1076.7	50220	ug/L	1076.7	2.14%
QC value within limits for Ca 315.887 Recovery = 100.44%								
Cd 214.440	331239.6	1035	ug/L	4.1	1035	ug/L	4.1	0.39%
QC value within limits for Cd 214.440 Recovery = 103.52%								
Co 228.616	67524.2	1018	ug/L	5.1	1018	ug/L	5.1	0.51%
QC value within limits for Co 228.616 Recovery = 101.79%								
Cr 267.716	135139.8	1022	ug/L	4.3	1022	ug/L	4.3	0.43%
QC value within limits for Cr 267.716 Recovery = 102.24%								
Cu 327.393	103764.7	989.2	ug/L	4.90	989.2	ug/L	4.90	0.50%
QC value within limits for Cu 327.393 Recovery = 98.92%								
Fe 273.955	519901.4	20220	ug/L	89.0	20220	ug/L	89.0	0.44%
QC value within limits for Fe 273.955 Recovery = 101.12%								
K 766.490	40996.3	20000	ug/L	240.2	20000	ug/L	240.2	1.20%
QC value within limits for K 766.490 Recovery = 99.99%								
Mg 285.213	987140.0	50390	ug/L	960.8	50390	ug/L	960.8	1.91%
QC value within limits for Mg 285.213 Recovery = 100.79%								
Mn 257.610	57287.8	1024	ug/L	12.5	1024	ug/L	12.5	1.22%
QC value within limits for Mn 257.610 Recovery = 102.43%								
Mo 202.031	42069.2	1062	ug/L	2.8	1062	ug/L	2.8	0.26%
QC value within limits for Mo 202.031 Recovery = 106.24%								
Na 589.592	343135.9	24860	ug/L	495.2	24860	ug/L	495.2	1.99%
QC value within limits for Na 589.592 Recovery = 99.46%								
Ni 231.604	62636.0	1027	ug/L	4.6	1027	ug/L	4.6	0.45%
QC value within limits for Ni 231.604 Recovery = 102.68%								
P 213.617	32347.8	5034	ug/L	16.4	5034	ug/L	16.4	0.33%
QC value within limits for P 213.617 Recovery = 100.69%								
Pb 220.353	14653.1	1031	ug/L	1.1	1031	ug/L	1.1	0.11%
QC value within limits for Pb 220.353 Recovery = 103.14%								
Sb 206.836	5804.1	1057	ug/L	4.6	1057	ug/L	4.6	0.43%
QC value within limits for Sb 206.836 Recovery = 105.73%								
Se 196.026	5277.2	1014	ug/L	1.9	1014	ug/L	1.9	0.19%
QC value within limits for Se 196.026 Recovery = 101.37%								
Sn 189.927	7379.4	1055	ug/L	6.5	1055	ug/L	6.5	0.62%
QC value within limits for Sn 189.927 Recovery = 105.54%								
Sr 421.552	1050412.9	996.3	ug/L	20.55	996.3	ug/L	20.55	2.06%
QC value within limits for Sr 421.552 Recovery = 99.63%								
Ti 337.279	43415.4	1050	ug/L	14.4	1050	ug/L	14.4	1.38%
QC value within limits for Ti 337.279 Recovery = 104.99%								
Tl 190.801	6391.4	1026	ug/L	2.1	1026	ug/L	2.1	0.21%
QC value within limits for Tl 190.801 Recovery = 102.56%								
V 292.402	233769.6	1030	ug/L	4.1	1030	ug/L	4.1	0.39%
QC value within limits for V 292.402 Recovery = 103.04%								
Zn 206.200	88376.4	1049	ug/L	6.2	1049	ug/L	6.2	0.59%
QC value within limits for Zn 206.200 Recovery = 104.87%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/13/12 12:03:39 PM
Data Type: Reprocessed on 11/14/12 11:07:23 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	35.4	0.281	ug/L	0.0799	0.281	ug/L	0.0799	28.37%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	5.8	3.382	ug/L	4.1797	3.382	ug/L	4.1797	123.59%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	6.9	1.447	ug/L	1.3960	1.447	ug/L	1.3960	96.49%
QC value within limits for As 188.979 Recovery = Not calculated								
B	43.3	10.22	ug/L	0.817	10.22	ug/L	0.817	7.99%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	9.1	0.054	ug/L	0.1189	0.054	ug/L	0.1189	220.99%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	77.1	0.013	ug/L	0.0216	0.013	ug/L	0.0216	167.19%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	27.0	2.308	ug/L	1.6486	2.308	ug/L	1.6486	71.42%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	31.5	0.099	ug/L	0.0490	0.099	ug/L	0.0490	49.69%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	14.6	0.222	ug/L	0.0781	0.222	ug/L	0.0781	35.18%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	21.3	0.161	ug/L	0.2210	0.161	ug/L	0.2210	137.49%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	164.7	1.571	ug/L	0.3599	1.571	ug/L	0.3599	22.91%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	127.9	5.002	ug/L	0.1708	5.002	ug/L	0.1708	3.41%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	155.7	76.03	ug/L	21.022	76.03	ug/L	21.022	27.65%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	40.4	2.067	ug/L	0.2313	2.067	ug/L	0.2313	11.19%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	6.9	0.124	ug/L	0.0792	0.124	ug/L	0.0792	63.66%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	13.9	0.350	ug/L	0.0932	0.350	ug/L	0.0932	26.60%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	37.9	2.717	ug/L	4.1584	2.717	ug/L	4.1584	153.06%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	1.3	0.020	ug/L	0.1609	0.020	ug/L	0.1609	800.00%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	4.1	0.643	ug/L	0.3537	0.643	ug/L	0.3537	54.98%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	8.2	0.579	ug/L	0.4223	0.579	ug/L	0.4223	72.90%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	2.1	0.376	ug/L	0.3628	0.376	ug/L	0.3628	96.50%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-5.7	-1.092	ug/L	2.6185	-1.092	ug/L	2.6185	239.86%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	7.5	1.067	ug/L	0.3965	1.067	ug/L	0.3965	37.15%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	207.0	0.197	ug/L	0.0971	0.197	ug/L	0.0971	49.40%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-19.8	-0.480	ug/L	0.3566	-0.480	ug/L	0.3566	74.28%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2.3	0.366	ug/L	0.1330	0.366	ug/L	0.1330	36.36%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-29.9	-0.124	ug/L	0.1303	-0.124	ug/L	0.1303	105.44%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	11.9	0.143	ug/L	0.1010	0.143	ug/L	0.1010	70.80%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 106
Sample ID: CCV1 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/13/12 7:43:35 PM
Data Type: Reprocessed on 11/14/12 11:09:03 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	64624.3	514.0	ug/L	3.85	514.0	ug/L	3.85	0.75%
QC value within limits for Ag 338.289 Recovery = 102.81%								
Al 308.215	33622.5	19690	ug/L	133.1	19690	ug/L	133.1	0.68%
QC value within limits for Al 308.215 Recovery = 98.46%								
As 188.979	4916.8	1031	ug/L	4.1	1031	ug/L	4.1	0.40%
QC value within limits for As 188.979 Recovery = 103.07%								
B	3756.6	946.6	ug/L	8.00	946.6	ug/L	8.00	0.84%
QC value within limits for B Recovery = 94.66%								
Ba 233.527	163572.1	1011	ug/L	3.9	1011	ug/L	3.9	0.38%
QC value within limits for Ba 233.527 Recovery = 101.14%								
Be 313.107	6157333.1	1030	ug/L	8.9	1030	ug/L	8.9	0.86%
QC value within limits for Be 313.107 Recovery = 102.99%								
Ca 315.887	569350.9	48760	ug/L	583.8	48760	ug/L	583.8	1.20%
QC value within limits for Ca 315.887 Recovery = 97.53%								
Cd 214.440	333366.1	1042	ug/L	3.0	1042	ug/L	3.0	0.29%
QC value within limits for Cd 214.440 Recovery = 104.19%								
Co 228.616	68255.3	1029	ug/L	4.1	1029	ug/L	4.1	0.40%
QC value within limits for Co 228.616 Recovery = 102.91%								
Cr 267.716	136137.8	1030	ug/L	3.0	1030	ug/L	3.0	0.29%
QC value within limits for Cr 267.716 Recovery = 103.00%								
Cu 327.393	103924.8	990.8	ug/L	3.69	990.8	ug/L	3.69	0.37%
QC value within limits for Cu 327.393 Recovery = 99.08%								
Fe 273.955	523916.8	20380	ug/L	71.1	20380	ug/L	71.1	0.35%
QC value within limits for Fe 273.955 Recovery = 101.90%								
K 766.490	43081.6	21020	ug/L	166.2	21020	ug/L	166.2	0.79%
QC value within limits for K 766.490 Recovery = 105.08%								
Mg 285.213	922297.9	47090	ug/L	503.1	47090	ug/L	503.1	1.07%
QC value within limits for Mg 285.213 Recovery = 94.17%								
Mn 257.610	54883.0	981.4	ug/L	9.18	981.4	ug/L	9.18	0.94%
QC value within limits for Mn 257.610 Recovery = 98.14%								
Mo 202.031	42480.5	1073	ug/L	4.4	1073	ug/L	4.4	0.41%
QC value within limits for Mo 202.031 Recovery = 107.28%								
Na 589.592	361799.9	26220	ug/L	240.9	26220	ug/L	240.9	0.92%
QC value within limits for Na 589.592 Recovery = 104.87%								
Ni 231.604	63122.9	1035	ug/L	3.6	1035	ug/L	3.6	0.35%
QC value within limits for Ni 231.604 Recovery = 103.48%								
P 213.617	32538.2	5064	ug/L	15.7	5064	ug/L	15.7	0.31%
QC value within limits for P 213.617 Recovery = 101.28%								
Pb 220.353	14977.8	1054	ug/L	3.5	1054	ug/L	3.5	0.33%
QC value within limits for Pb 220.353 Recovery = 105.43%								
Sb 206.836	5994.7	1092	ug/L	2.1	1092	ug/L	2.1	0.19%
QC value within limits for Sb 206.836 Recovery = 109.20%								
Se 196.026	5428.1	1043	ug/L	4.7	1043	ug/L	4.7	0.45%
QC value within limits for Se 196.026 Recovery = 104.27%								
Sn 189.927	8092.5	1157	ug/L	7.9	1157	ug/L	7.9	0.68%
QC value greater than the upper limit for Sn 189.927 Recovery = 115.74%								
Sr 421.552	1059610.4	1005	ug/L	10.4	1005	ug/L	10.4	1.04%
QC value within limits for Sr 421.552 Recovery = 100.50%								
Ti 337.279	41178.7	995.8	ug/L	8.35	995.8	ug/L	8.35	0.84%
QC value within limits for Ti 337.279 Recovery = 99.58%								
Tl 190.801	6255.2	1004	ug/L	3.3	1004	ug/L	3.3	0.33%
QC value within limits for Tl 190.801 Recovery = 100.38%								
V 292.402	236985.1	1045	ug/L	4.2	1045	ug/L	4.2	0.40%
QC value within limits for V 292.402 Recovery = 104.45%								
Zn 206.200	89450.7	1061	ug/L	4.1	1061	ug/L	4.1	0.39%
QC value within limits for Zn 206.200 Recovery = 106.14%								

QC Failed. Continue with analysis.

Sequence No.: 107
Sample ID: CCB 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/13/12 7:47:39 PM
Data Type: Reprocessed on 11/14/12 11:09:04 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	10.5	0.084	ug/L	0.3244	0.084	ug/L	0.3244	388.48%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	4.2	2.464	ug/L	6.9834	2.464	ug/L	6.9834	283.45%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	2.0	0.415	ug/L	0.0434	0.415	ug/L	0.0434	10.45%
QC value within limits for As 188.979 Recovery = Not calculated								
B	33.8	7.964	ug/L	2.1102	7.964	ug/L	2.1102	26.50%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	19.2	0.117	ug/L	0.0663	0.117	ug/L	0.0663	56.43%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-934.9	-0.156	ug/L	0.0193	-0.156	ug/L	0.0193	12.34%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	198.7	17.00	ug/L	0.527	17.00	ug/L	0.527	3.10%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	4.4	0.013	ug/L	0.0289	0.013	ug/L	0.0289	214.60%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	30.7	0.463	ug/L	0.1154	0.463	ug/L	0.1154	24.92%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	0.0	-0.001	ug/L	0.0678	-0.001	ug/L	0.0678	>999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	28.1	0.268	ug/L	0.2496	0.268	ug/L	0.2496	93.13%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	107.1	4.209	ug/L	0.5676	4.209	ug/L	0.5676	13.49%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	81.0	39.67	ug/L	145.423	39.67	ug/L	145.423	366.61%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	23.1	1.177	ug/L	0.8706	1.177	ug/L	0.8706	73.99%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	0.1	0.002	ug/L	0.1229	0.002	ug/L	0.1229	>999.9%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	0.6	0.015	ug/L	0.2495	0.015	ug/L	0.2495	>999.9%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	6804.3	493.5	ug/L	36.86	493.5	ug/L	36.86	7.47%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-7.5	-0.124	ug/L	0.0432	-0.124	ug/L	0.0432	34.78%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-22.6	-3.514	ug/L	1.0087	-3.514	ug/L	1.0087	28.70%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-3.1	-0.221	ug/L	0.4725	-0.221	ug/L	0.4725	214.27%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-8.3	-1.506	ug/L	0.2339	-1.506	ug/L	0.2339	15.53%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-4.1	-0.788	ug/L	1.5598	-0.788	ug/L	1.5598	197.85%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-2.2	-0.308	ug/L	0.2379	-0.308	ug/L	0.2379	77.35%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	104.1	0.098	ug/L	0.0891	0.098	ug/L	0.0891	90.96%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-4.2	-0.101	ug/L	0.3859	-0.101	ug/L	0.3859	382.31%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	7.9	1.260	ug/L	0.1359	1.260	ug/L	0.1359	10.78%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-88.7	-0.386	ug/L	0.0621	-0.386	ug/L	0.0621	16.10%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-87.9	-1.028	ug/L	0.2444	-1.028	ug/L	0.2444	23.78%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 117
Sample ID: CCV2 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 11/13/12 8:37:44 PM
Data Type: Reprocessed on 11/14/12 11:09:14 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	44877.2	357.0	ug/L	1.51	357.0	ug/L	1.51	0.42%
QC value within limits for Ag 338.289 Recovery = 95.19%								
Al 308.215	22420.3	13130	ug/L	62.7	13130	ug/L	62.7	0.48%
QC value less than the lower limit for Al 308.215 Recovery = 87.54%								
As 188.979	3323.6	696.8	ug/L	3.09	696.8	ug/L	3.09	0.44%
QC value within limits for As 188.979 Recovery = 92.90%								
B	2447.1	618.4	ug/L	6.69	618.4	ug/L	6.69	1.08%
QC value less than the lower limit for B Recovery = 82.46%								
Ba 233.527	111466.4	689.3	ug/L	1.82	689.3	ug/L	1.82	0.26%
QC value within limits for Ba 233.527 Recovery = 91.90%								
Be 313.107	4210473.4	704.3	ug/L	7.36	704.3	ug/L	7.36	1.05%
QC value within limits for Be 313.107 Recovery = 93.90%								
Ca 315.887	375312.7	32150	ug/L	781.9	32150	ug/L	781.9	2.43%
QC value less than the lower limit for Ca 315.887 Recovery = 85.72%								
Cd 214.440	228957.9	715.6	ug/L	2.28	715.6	ug/L	2.28	0.32%
QC value within limits for Cd 214.440 Recovery = 95.41%								
Co 228.616	46753.5	705.1	ug/L	4.18	705.1	ug/L	4.18	0.59%
QC value within limits for Co 228.616 Recovery = 94.01%								
Cr 267.716	93804.1	709.7	ug/L	1.57	709.7	ug/L	1.57	0.22%
QC value within limits for Cr 267.716 Recovery = 94.63%								
Cu 327.393	71135.1	678.2	ug/L	2.38	678.2	ug/L	2.38	0.35%
QC value within limits for Cu 327.393 Recovery = 90.42%								
Fe 273.955	355612.1	13830	ug/L	56.8	13830	ug/L	56.8	0.41%
QC value within limits for Fe 273.955 Recovery = 92.22%								
K 766.490	29604.7	14440	ug/L	283.0	14440	ug/L	283.0	1.96%
QC value within limits for K 766.490 Recovery = 96.28%								
Mg 285.213	615961.9	31450	ug/L	670.4	31450	ug/L	670.4	2.13%
QC value less than the lower limit for Mg 285.213 Recovery = 83.86%								
Mn 257.610	36498.3	652.7	ug/L	2.84	652.7	ug/L	2.84	0.44%
QC value less than the lower limit for Mn 257.610 Recovery = 87.02%								
Mo 202.031	30045.5	758.7	ug/L	2.03	758.7	ug/L	2.03	0.27%
QC value within limits for Mo 202.031 Recovery = 101.16%								
Na 589.592	239904.7	17380	ug/L	391.6	17380	ug/L	391.6	2.25%
QC value within limits for Na 589.592 Recovery = 92.72%								
Ni 231.604	43536.8	713.7	ug/L	1.87	713.7	ug/L	1.87	0.26%
QC value within limits for Ni 231.604 Recovery = 95.17%								
P 213.617	22925.9	3568	ug/L	9.9	3568	ug/L	9.9	0.28%
QC value within limits for P 213.617 Recovery = 95.15%								
Pb 220.353	10202.5	718.1	ug/L	2.40	718.1	ug/L	2.40	0.33%
QC value within limits for Pb 220.353 Recovery = 95.75%								
Sb 206.836	4029.5	734.0	ug/L	4.74	734.0	ug/L	4.74	0.65%
QC value within limits for Sb 206.836 Recovery = 97.87%								
Se 196.026	3666.8	704.4	ug/L	1.31	704.4	ug/L	1.31	0.19%
QC value within limits for Se 196.026 Recovery = 93.92%								
Sn 189.927	5494.0	785.8	ug/L	6.32	785.8	ug/L	6.32	0.80%
QC value within limits for Sn 189.927 Recovery = 104.77%								
Sr 421.552	712213.9	675.5	ug/L	17.27	675.5	ug/L	17.27	2.56%
QC value within limits for Sr 421.552 Recovery = 90.07%								
Ti 337.279	27209.4	658.0	ug/L	0.62	658.0	ug/L	0.62	0.09%
QC value less than the lower limit for Ti 337.279 Recovery = 87.73%								
Tl 190.801	4212.3	675.9	ug/L	4.59	675.9	ug/L	4.59	0.68%
QC value within limits for Tl 190.801 Recovery = 90.13%								
V 292.402	162689.2	717.5	ug/L	1.92	717.5	ug/L	1.92	0.27%
QC value within limits for V 292.402 Recovery = 95.66%								
Zn 206.200	61356.7	728.1	ug/L	3.16	728.1	ug/L	3.16	0.43%
QC value within limits for Zn 206.200 Recovery = 97.08%								

QC Failed. Continue with analysis.

Sequence No.: 118
Sample ID: CCB 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/13/12 8:41:12 PM
Data Type: Reprocessed on 11/14/12 11:09:15 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	63.6	0.505	ug/L	0.8277	0.505	ug/L	0.8277	163.75%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-2.9	-1.692	ug/L	0.9873	-1.692	ug/L	0.9873	58.35%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	10.6	2.225	ug/L	0.4209	2.225	ug/L	0.4209	18.92%
QC value within limits for As 188.979 Recovery = Not calculated								
B	23.9	5.629	ug/L	0.9406	5.629	ug/L	0.9406	16.71%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	52.0	0.323	ug/L	0.0335	0.323	ug/L	0.0335	10.36%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-1054.7	-0.176	ug/L	0.0172	-0.176	ug/L	0.0172	9.77%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	160.7	13.76	ug/L	0.384	13.76	ug/L	0.384	2.79%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	93.3	0.292	ug/L	0.0173	0.292	ug/L	0.0173	5.95%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	25.9	0.390	ug/L	0.1433	0.390	ug/L	0.1433	36.72%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-32.8	-0.248	ug/L	0.1090	-0.248	ug/L	0.1090	43.94%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	16.1	0.153	ug/L	0.5535	0.153	ug/L	0.5535	361.68%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	40.7	1.600	ug/L	0.5821	1.600	ug/L	0.5821	36.37%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	169.2	82.64	ug/L	57.644	82.64	ug/L	57.644	69.75%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	17.6	0.895	ug/L	0.8104	0.895	ug/L	0.8104	90.53%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-19.1	-0.341	ug/L	0.1124	-0.341	ug/L	0.1124	32.93%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-2.9	-0.073	ug/L	0.1585	-0.073	ug/L	0.1585	218.24%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	874.1	63.36	ug/L	5.416	63.36	ug/L	5.416	8.55%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-19.5	-0.321	ug/L	0.1014	-0.321	ug/L	0.1014	31.55%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	99.0	15.41	ug/L	1.241	15.41	ug/L	1.241	8.05%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	6.2	0.434	ug/L	0.6091	0.434	ug/L	0.6091	140.40%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-7.1	-1.288	ug/L	0.2903	-1.288	ug/L	0.2903	22.53%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-12.5	-2.379	ug/L	0.9482	-2.379	ug/L	0.9482	39.86%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-12.4	-1.768	ug/L	1.1727	-1.768	ug/L	1.1727	66.32%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	0.2	0.000	ug/L	0.1293	0.000	ug/L	0.1293	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-3.7	-0.089	ug/L	0.0547	-0.089	ug/L	0.0547	61.42%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.9	1.429	ug/L	0.6463	1.429	ug/L	0.6463	45.24%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-40.2	-0.178	ug/L	0.1213	-0.178	ug/L	0.1213	68.16%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	5.6	0.064	ug/L	0.3277	0.064	ug/L	0.3277	509.64%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 124
Sample ID: CCV1 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/13/12 9:10:19 PM
Data Type: Reprocessed on 11/14/12 11:09:20 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	61842.1	491.9	ug/L	9.23	491.9	ug/L	9.23	1.88%
QC value within limits for Ag 338.289 Recovery = 98.38%								
Al 308.215	30729.6	18000	ug/L	123.6	18000	ug/L	123.6	0.69%
QC value within limits for Al 308.215 Recovery = 89.99%								
As 188.979	4657.3	976.3	ug/L	7.01	976.3	ug/L	7.01	0.72%
QC value within limits for As 188.979 Recovery = 97.63%								
B	3334.3	844.0	ug/L	11.56	844.0	ug/L	11.56	1.37%
QC value less than the lower limit for B Recovery = 84.40%								
Ba 233.527	155026.3	958.6	ug/L	9.54	958.6	ug/L	9.54	1.00%
QC value within limits for Ba 233.527 Recovery = 95.86%								
Be 313.107	5800947.0	970.3	ug/L	7.38	970.3	ug/L	7.38	0.76%
QC value within limits for Be 313.107 Recovery = 97.03%								
Ca 315.887	507281.8	43450	ug/L	600.0	43450	ug/L	600.0	1.38%
QC value less than the lower limit for Ca 315.887 Recovery = 86.90%								
Cd 214.440	317609.0	992.6	ug/L	9.85	992.6	ug/L	9.85	0.99%
QC value within limits for Cd 214.440 Recovery = 99.26%								
Co 228.616	64866.2	978.2	ug/L	9.61	978.2	ug/L	9.61	0.98%
QC value within limits for Co 228.616 Recovery = 97.82%								
Cr 267.716	130334.1	986.2	ug/L	10.12	986.2	ug/L	10.12	1.03%
QC value within limits for Cr 267.716 Recovery = 98.62%								
Cu 327.393	98908.5	942.9	ug/L	12.95	942.9	ug/L	12.95	1.37%
QC value within limits for Cu 327.393 Recovery = 94.29%								
Fe 273.955	495471.7	19270	ug/L	184.1	19270	ug/L	184.1	0.96%
QC value within limits for Fe 273.955 Recovery = 96.37%								
K 766.490	40257.9	19640	ug/L	194.4	19640	ug/L	194.4	0.99%
QC value within limits for K 766.490 Recovery = 98.20%								
Mg 285.213	824838.3	42110	ug/L	501.2	42110	ug/L	501.2	1.19%
QC value less than the lower limit for Mg 285.213 Recovery = 84.22%								
Mn 257.610	49924.4	892.8	ug/L	6.88	892.8	ug/L	6.88	0.77%
QC value less than the lower limit for Mn 257.610 Recovery = 89.28%								
Mo 202.031	40569.8	1025	ug/L	8.5	1025	ug/L	8.5	0.83%
QC value within limits for Mo 202.031 Recovery = 102.45%								
Na 589.592	324306.1	23500	ug/L	255.3	23500	ug/L	255.3	1.09%
QC value within limits for Na 589.592 Recovery = 94.00%								
Ni 231.604	60255.7	987.8	ug/L	8.07	987.8	ug/L	8.07	0.82%
QC value within limits for Ni 231.604 Recovery = 98.78%								
P 213.617	31029.1	4829	ug/L	52.6	4829	ug/L	52.6	1.09%
QC value within limits for P 213.617 Recovery = 96.58%								
Pb 220.353	14176.3	997.9	ug/L	6.43	997.9	ug/L	6.43	0.64%
QC value within limits for Pb 220.353 Recovery = 99.79%								
Sb 206.836	5606.7	1021	ug/L	5.8	1021	ug/L	5.8	0.57%
QC value within limits for Sb 206.836 Recovery = 102.13%								
Se 196.026	5119.2	983.5	ug/L	7.04	983.5	ug/L	7.04	0.72%
QC value within limits for Se 196.026 Recovery = 98.35%								
Sn 189.927	7827.6	1120	ug/L	10.3	1120	ug/L	10.3	0.92%
QC value greater than the upper limit for Sn 189.927 Recovery = 111.95%								
Sr 421.552	959415.5	910.0	ug/L	10.45	910.0	ug/L	10.45	1.15%
QC value within limits for Sr 421.552 Recovery = 91.00%								
Ti 337.279	36832.7	890.7	ug/L	5.85	890.7	ug/L	5.85	0.66%
QC value less than the lower limit for Ti 337.279 Recovery = 89.07%								
Tl 190.801	5799.3	930.6	ug/L	2.71	930.6	ug/L	2.71	0.29%
QC value within limits for Tl 190.801 Recovery = 93.06%								
V 292.402	226515.8	998.5	ug/L	10.44	998.5	ug/L	10.44	1.05%
QC value within limits for V 292.402 Recovery = 99.85%								
Zn 206.200	85494.8	1014	ug/L	8.3	1014	ug/L	8.3	0.82%
QC value within limits for Zn 206.200 Recovery = 101.44%								

QC Failed. Continue with analysis.

Sequence No.: 125
Sample ID: CCB 121113EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/13/12 9:14:17 PM
Data Type: Reprocessed on 11/14/12 11:09:21 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121113EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	84.0	0.668	ug/L	0.5960	0.668	ug/L	0.5960	89.18%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-13.8	-8.114	ug/L	3.2568	-8.114	ug/L	3.2568	40.14%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	9.5	1.984	ug/L	1.0481	1.984	ug/L	1.0481	52.83%
QC value within limits for As 188.979 Recovery = Not calculated								
B	33.8	7.947	ug/L	0.6665	7.947	ug/L	0.6665	8.39%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	2.9	0.018	ug/L	0.0042	0.018	ug/L	0.0042	23.72%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-950.7	-0.159	ug/L	0.0109	-0.159	ug/L	0.0109	6.83%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	195.3	16.72	ug/L	0.599	16.72	ug/L	0.599	3.59%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	65.6	0.205	ug/L	0.0608	0.205	ug/L	0.0608	29.66%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	13.5	0.203	ug/L	0.2128	0.203	ug/L	0.2128	104.67%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	3.5	0.026	ug/L	0.1477	0.026	ug/L	0.1477	569.87%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	8.2	0.078	ug/L	0.2014	0.078	ug/L	0.2014	258.14%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	-19.2	-0.718	ug/L	0.4229	-0.718	ug/L	0.4229	58.92%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	321.8	157.1	ug/L	145.31	157.1	ug/L	145.31	92.48%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	35.4	1.798	ug/L	0.5919	1.798	ug/L	0.5919	32.92%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-31.6	-0.566	ug/L	0.0502	-0.566	ug/L	0.0502	8.87%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	8.8	0.220	ug/L	0.1178	0.220	ug/L	0.1178	53.49%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	394.1	28.51	ug/L	13.040	28.51	ug/L	13.040	45.73%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-30.9	-0.508	ug/L	0.4247	-0.508	ug/L	0.4247	83.60%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	41.8	6.501	ug/L	1.0206	6.501	ug/L	1.0206	15.70%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	7.8	0.551	ug/L	0.3698	0.551	ug/L	0.3698	67.14%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-10.2	-1.859	ug/L	0.6243	-1.859	ug/L	0.6243	33.59%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	0.1	0.024	ug/L	0.4347	0.024	ug/L	0.4347	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-2.0	-0.292	ug/L	0.7622	-0.292	ug/L	0.7622	261.31%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-20.1	-0.019	ug/L	0.1207	-0.019	ug/L	0.1207	642.73%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	5.0	0.119	ug/L	0.1456	0.119	ug/L	0.1456	122.22%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	12.0	1.931	ug/L	1.0392	1.931	ug/L	1.0392	53.81%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-105.6	-0.454	ug/L	0.1341	-0.454	ug/L	0.1341	29.55%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-6.5	-0.074	ug/L	0.1738	-0.074	ug/L	0.1738	236.03%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/13/12	11/13/12	#6010B-121113A-AY71560

Sequence No.: 108
Sample ID: 121113A-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 114
Date Collected: 11/13/12 7:51:59 PM
Data Type: Reprocessed on 11/14/12 11:09:05 AM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121113A-3050-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	224.4	1.785	ug/L	0.6233	0.071	mg/kg	0.0249	34.91%
Al 308.215	0.2	0.052	ug/L	9.7996	0.002	mg/kg	0.3920	>999.9%
As 188.979	3.4	0.716	ug/L	0.8377	0.029	mg/kg	0.0335	116.98%
B	28.0	6.587	ug/L	0.8606	0.263	mg/kg	0.0344	13.07%
Ba 233.527	61.8	0.384	ug/L	0.1484	0.015	mg/kg	0.0059	38.61%
Be 313.107	-971.1	-0.162	ug/L	0.0068	-0.006	mg/kg	0.0003	4.17%
Ca 315.887	351.0	30.05	ug/L	2.919	1.202	mg/kg	0.1167	9.71%
Cd 214.440	108.5	0.340	ug/L	0.0295	0.014	mg/kg	0.0012	8.66%
Co 228.616	40.3	0.608	ug/L	0.1677	0.024	mg/kg	0.0067	27.56%
Cr 267.716	53.1	0.400	ug/L	0.2404	0.016	mg/kg	0.0096	60.14%
Cu 327.393	103.7	0.989	ug/L	0.6711	0.040	mg/kg	0.0268	67.86%
Fe 273.955	-0.7	0.020	ug/L	0.6016	0.001	mg/kg	0.0241	>999.9%
K 766.490	196.5	96.00	ug/L	19.065	3.840	mg/kg	0.7626	19.86%
Mg 285.213	40.4	2.053	ug/L	0.1710	0.082	mg/kg	0.0068	8.33%
Mn 257.610	-6.3	-0.113	ug/L	0.1794	-0.005	mg/kg	0.0072	158.51%
Mo 202.031	25.3	0.637	ug/L	0.1582	0.025	mg/kg	0.0063	24.82%
Na 589.592	4144.5	300.5	ug/L	26.67	12.02	mg/kg	1.067	8.87%
Ni 231.604	-89.6	-1.473	ug/L	0.3745	-0.059	mg/kg	0.0150	25.43%
P 213.617	130.0	20.23	ug/L	0.601	0.809	mg/kg	0.0240	2.97%
Pb 220.353	-32.4	-2.278	ug/L	0.5358	-0.091	mg/kg	0.0214	23.53%
Sb 206.836	-11.9	-2.166	ug/L	0.9393	-0.087	mg/kg	0.0376	43.36%
Se 196.026	5.7	1.079	ug/L	2.1239	0.043	mg/kg	0.0850	196.80%
Sn 189.927	-35.0	-5.011	ug/L	0.7182	-0.200	mg/kg	0.0287	14.33%
Sr 421.552	112.2	0.106	ug/L	0.1372	0.004	mg/kg	0.0055	129.44%
Ti 337.279	28.6	0.692	ug/L	0.3355	0.028	mg/kg	0.0134	48.48%
Tl 190.801	-6.5	-1.047	ug/L	0.5334	-0.042	mg/kg	0.0213	50.93%
V 292.402	-145.5	-0.619	ug/L	0.0273	-0.025	mg/kg	0.0011	4.42%
Zn 206.200	284.7	3.355	ug/L	0.1408	0.134	mg/kg	0.0056	4.20%

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.0	10.5	105	80-120	11/13/12	11/13/12	#6010B-121113A-AY71560

Comments: _____

Sequence No.: 109
Sample ID: 121113A-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 115
Date Collected: 11/13/12 7:56:24 PM
Data Type: Reprocessed on 11/14/12 11:09:06 AM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121113A-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	10776.9	85.72	ug/L	0.506	3.429	mg/kg	0.0202	0.59%
Al 308.215	3236.6	1897	ug/L	16.7	75.88	mg/kg	0.670	0.88%
As 188.979	1162.1	243.6	ug/L	1.03	9.745	mg/kg	0.0412	0.42%
B	979.5	232.6	ug/L	2.08	9.302	mg/kg	0.0832	0.89%
Ba 233.527	40032.7	249.5	ug/L	1.23	9.979	mg/kg	0.0492	0.49%
Be 313.107	303307.9	50.73	ug/L	0.629	2.029	mg/kg	0.0252	1.24%
Ca 315.887	280889.0	24060	ug/L	302.6	962.4	mg/kg	12.10	1.26%
Cd 214.440	16608.8	52.04	ug/L	0.070	2.082	mg/kg	0.0028	0.13%
Co 228.616	17843.2	269.1	ug/L	0.17	10.76	mg/kg	0.007	0.06%
Cr 267.716	35641.6	269.5	ug/L	0.80	10.78	mg/kg	0.032	0.30%
Cu 327.393	25887.4	246.8	ug/L	2.94	9.872	mg/kg	0.1178	1.19%
Fe 273.955	26938.9	1029	ug/L	2.6	41.18	mg/kg	0.102	0.25%
K 766.490	10375.9	5064	ug/L	94.5	202.6	mg/kg	3.78	1.87%
Mg 285.213	441124.5	22510	ug/L	168.1	900.4	mg/kg	6.72	0.75%
Mn 257.610	13964.0	248.9	ug/L	1.23	9.956	mg/kg	0.0491	0.49%
Mo 202.031	11031.4	278.2	ug/L	0.41	11.13	mg/kg	0.016	0.15%
Na 589.592	341843.3	24790	ug/L	130.2	991.4	mg/kg	5.21	0.53%
Ni 231.604	16245.2	266.2	ug/L	0.64	10.65	mg/kg	0.026	0.24%
P 213.617	12860.6	2001	ug/L	6.3	80.06	mg/kg	0.251	0.31%
Pb 220.353	3731.2	262.6	ug/L	1.97	10.51	mg/kg	0.079	0.75%
Sb 206.836	1354.1	246.7	ug/L	0.98	9.866	mg/kg	0.0392	0.40%
Se 196.026	1227.7	233.3	ug/L	3.06	9.331	mg/kg	0.1223	1.31%
Sn 189.927	2044.8	292.4	ug/L	0.52	11.70	mg/kg	0.021	0.18%
Sr 421.552	259200.9	245.8	ug/L	1.41	9.830	mg/kg	0.0566	0.58%
Ti 337.279	10227.0	247.2	ug/L	1.31	9.886	mg/kg	0.0524	0.53%
Tl 190.801	1499.1	240.6	ug/L	1.58	9.622	mg/kg	0.0633	0.66%
V 292.402	61013.9	270.0	ug/L	1.60	10.80	mg/kg	0.064	0.59%
Zn 206.200	44674.0	528.3	ug/L	2.79	21.13	mg/kg	0.112	0.53%

Metals Standards Log Book # 36 Page # 037

BC 11/13/12

6020/6020A

(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A
Today's Date. 11/13/12
Expires: 11/20/12
Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL Di Water
Lot #L12065
20 mL HCL / 2000mL Di Water
Lot #51358
Expires: 11/20/12

Internal Standard Mix: Prep 11/09/2012

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1.0% HCL 11/13/12

Standard 3 11/20/12

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	ABS STDS	012512-30926
25 uL	CCV-B	ABS STDS	021312-30928
25 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1.0% HCL 11/13/12

Intermediate-Sb 11/20/12
100 uL of Sb STD (CPI 12A011-30298) in 10 mL of 1% HNO3/1.0% HCL
ICV-Sb 11/20/12
100 uL of Intermediate-Sb in 10 mL of 1% HNO3/1.0% HCL

BC 11/13/12

Standard 2 11/20/12

Amount	STD	
500 uL	Standard 4	11/13/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/13/12

Standard 1 11/20/12

Amount	STD	
50 uL	Standard 4	11/13/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/13/12

ICP-MS ICV 11/20/12

Amount	STD		
50 uL	QCS ICV A	CPI	11C184-30611
50 uL	QCS ICV B	CPI	11C184-30612

Prepared in 50 mL of 1% HNO3/1 0% HCL 11/13/12

ICSA Prep: 11/20/12

1 mL	ICSA	CPI	12I082-31307

Prepared in 5 mL of 1% HNO3/1 0% HCL 11/13/12

ICSAB Prep: 11/20/12

1mL	ICSA	CPI	12I082-31307
0.025mL	INT	O2Si	1032370-30265

Prepared in 5 mL of 1% HNO3/1.0% HCL 11/13/12

ICP-LDR 11/20/12

Amount	STD		
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 10 mL of 1% HNO3/1.0% HCL 11/13/12

EA 11-13-12

6010B-C

(A)

1%HNO3 / 5%HCl BLK				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	EMD	UN1789-265	10/22/12
20 mL	HNO3	JT BAKER	L10023-266	10/24/12
Prepared in 2000 ml DI Water				
STD 1 / LDL 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.5 mL	6010 LDL	O2SI	1039165-31300	10/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
STD 3 / HDL 6010B/6010C				
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15
Prepared in 100 ml 1%HNO3 / 5%HCl				
STD 2 / CCV1 6010B/6010C/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
25mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	
CCV2 6010B/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
15mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICSAB				
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICV				
0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 1%HNO3/5%HCl				

EA 11-13-12

7471/245.1
200-26307
2065

LO 11/14/12

Hg working Stnds.

Hg WORKING STANDARD 7470A/7471/245.1

1ml X 10ug/ml Hg STOCK STD. (11/13/12LO)/200ml 1% HNO3 Lot#L12065
1ml X 10ug/ml Hg STOCK ICV (11/13/12LO)/200ml 1% HNO3 Lot#L12065
Final concentration is 50 ug/L. Expires... 11/14/12

LO 11/14/12

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121113A **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 1037547-31170		
Spiked ID 2	LCSW LOT# 1037545-31167		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	11/13/12 8:20:00 AM
Witnessed By	BC	Date:	11/13/12 8:20:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	11/13/12 14:30

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121113A Blk				2.50g	100mL	11/13/12 8:20	equip: Modblock4
2	121113A LCS		1mL	1+2	2.50g	100mL	11/13/12 8:20	equip: Modblock4
3	AY71479	AY71479M01			2.56g	100mL	11/13/12 8:20	equip: Modblock4
4	AY71481	AY71481M01			2.55g	100mL	11/13/12 8:20	equip: Modblock4
5	AY71483	AY71483M01			2.52g	100mL	11/13/12 8:20	equip: Modblock4
6	AY71485	AY71485M01			2.56g	100mL	11/13/12 8:20	equip: Modblock4
7	AY71487	AY71487M01			2.57g	100mL	11/13/12 8:20	equip: Modblock4
8	AY71559	AY71559M01			2.50g	100mL	11/13/12 8:20	equip: Modblock4
9	AY71560	AY71560M01			2.53g	100mL	11/13/12 8:20	equip: Modblock4
10	AY71560 MS	AY71560M01	2mL	1+2	2.53g	100mL	11/13/12 8:20	equip: Modblock4
11	AY71560 MSD	AY71560M01	2mL	1+2	2.53g	100mL	11/13/12 8:20	equip: Modblock4

Solvent and Lot#
1:1 HNO3 11-8-12
HNO3 J.T.B. L10023 0271
H2O2 J.T.B K20J00 0254
HCL EMD Lot# 4112032 0272

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	EA
Date	11-13-12
Time	14:30
Moved to	metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	11/13/12 10:54:28 AM

Reviewed By: [signature] **Date:** 11-14-12

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	13 Nov 2012	11:11	CalBlk 121113EA I:PB O:EA		121113A6010	1.
2	13 Nov 2012	11:16	STD 1 121113EA I:PB O:EA		121113A6010	1.
3	13 Nov 2012	11:20	STD 2 121113EA I:PB O:EA		121113A6010	1.
4	13 Nov 2012	11:23	STD 3 121113EA I:PB O:EA		121113A6010	1.
5	13 Nov 2012	11:26	ICV 121113EA I:PB O:EA		121113A6010	1.
6	13 Nov 2012	11:30	ICB 121113EA I:PB O:EA		121113A6010	1.
8	13 Nov 2012	11:39	ICSA 121113EA I:PB O:EA		121113A6010	1.
9	13 Nov 2012	11:43	ICSAB 121113EA I:PB O:EA		121113A6010	1.
10	13 Nov 2012	11:59	CCV1 121113EA I:PB O:EA		121113A6010	1.
11	13 Nov 2012	12:03	CCB 121113EA I:PB O:EA		121113A6010	1.
106	13 Nov 2012	19:43	CCV1 121113EA I:PB O:EA		121113A6010	1.
107	13 Nov 2012	19:47	CCB 121113EA I:PB O:EA		121113A6010	1.
108	13 Nov 2012	19:51	121113A-3050-BLK		121113A6010	1.
109	13 Nov 2012	19:56	121113A-3050-LCS		121113A6010	1.
116	13 Nov 2012	20:30	AY71560M01		121113A6010	1.
117	13 Nov 2012	20:37	CCV2 121113EA I:PB O:EA		121113A6010	1.
118	13 Nov 2012	20:41	CCB 121113EA I:PB O:EA		121113A6010	1.
121	13 Nov 2012	20:54	AY71560M01-A		121113A6010	1.
124	13 Nov 2012	21:10	CCV1 121113EA I:PB O:EA		121113A6010	1.
125	13 Nov 2012	21:14	CCB 121113EA I:PB O:EA		121113A6010	1.

Wetlab Results

ARF: 69255

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
APPL ID: AY71560	-Client Sample ID: GT12021M		-Sample Collection Date: 11/07/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	76.7	2.0	%	11/12/12	11/13/12

Printed: 11/19/12 4:57:11 PM

% Moisture

Batch: QCG 121112-M004545

Method: CLP 4.0

Date: 11/12/12 16:33

Sample	Container	Pan (g)	Pan+Wet (g)	Pan+Dry 1 (g)	Pan+Dry 2 (g)	Moisture (%)	Comments
AY71560	m01	0.8409 11/12/12 16:33	7.2903 11/12/12 16:35	2.3436 11/13/12 07:39	2.3436 11/13/12 07:39	76.700	AY71560M01
AY71559D	m01	0.8424 11/12/12 16:32	7.0286 11/12/12 16:33	2.5083 11/13/12 07:38	2.5082 11/13/12 07:38	73.072	AY71559M01
AY71559	m01	0.8307 11/12/12 16:31	6.9632 11/12/12 16:32	2.4824 11/13/12 07:38	2.4818 11/13/12 07:38	73.076	AY71559M01

Date/Time InOven@104°C	Date/Time OutOven@104°C	Date/Time InOven@104°C	Date/Time OutOven@104°C
11/12/12 4:36:00 PM			11/13/12 7:38:00 AM

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
11/9/12	BB	Mettler AT200	0.5g	0.5001 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0001 g	0.9990	1.0010	
		Mettler AT200	20g	20.0004 g	19.9800	20.0200	
		Mettler AT200	50g	50.0011 g	49.9500	50.0500	
		Mettler AT200	100g	100.0022g	99.9000	100.1000	
		Mettler AT200	150g	150.0032g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
11/12/12	BB						Yes
		Mettler AT200	0.5g	0.5002 g	0.4995	0.5005	
		Mettler AT200	1g	1.0002 g	0.9990	1.0010	
		Mettler AT200	20g	20.0006 g	19.9800	20.0200	
		Mettler AT200	50g	50.0015 g	49.9500	50.0500	
		Mettler AT200	100g	100.0028 g	99.9000	100.1000	
		Mettler AT200	150g	150.0040 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
11/13/12	BB						Yes
		Mettler AT200	0.5g	0.5001 g	0.4995	0.5005	
		Mettler AT200	1g	1.0001 g	0.9990	1.0010	
		Mettler AT200	20g	20.0006 g	19.9800	20.0200	
		Mettler AT200	50g	50.0014 g	49.9500	50.0500	
		Mettler AT200	100g	100.0027 g	99.9000	100.1000	
		Mettler AT200	150g	150.0041 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
11/14/12	AP	Mettler AT200	0.5g	0.5001 g	0.4995	0.5005	yes
		Mettler AT200	1g	1.0002 g	0.9990	1.0010	
		Mettler AT200	20g	20.0006 g	19.9800	20.0200	
		Mettler AT200	50g	50.0013 g	49.9500	50.0500	
		Mettler AT200	100g	100.0023g	99.9000	100.1000	
		Mettler AT200	150g	150.0034g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.99g	1960.00	2040.00	

Laboratory Report

Parsons

Project #: 748350.02000 CSSA

ARF: 69287

Samples collected: November 9 and 12, 2012

APPL, Inc.

Data Validatable Package

for

Project #: 748350.02000 CSSA

ARF 69287

TABLE OF CONTENTS

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CASE NARRATIVE

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

EPA Method 6010B
Metals

Case Narrative

ARF: 69287

Project: 748350.02000 CSSA

California State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Texas Certificate Number: T104704242-10-3

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

The samples were received November 15, 2012, at 1.0°C. The samples were assigned Analytical Request Form (ARF) number 69287. The sample numbers and requested analysis were compared to the chains of custody. No exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
GT12022M	AY71799	MISC	11/09/12	11/15/12
GT12023M	AY71802	MISC	11/12/12	11/15/12
GT12024M	AY71805	MISC	11/12/12	11/15/12

Percent moisture was determined using CLP 4.0.

Digestion Information:

The miscellaneous samples were frozen and homogenized according to APPL's SOP PRE003. An aliquot of the homogenized sample was digested according to EPA method 3050B. Since the laboratory was unable to obtain a similar clean matrix, the blank and the LCS were digested according to APPL's SOP PRE3050B. No other exception was encountered. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed according to EPA method 6010B using a Perkin Elmer Optima 5300DV ICP.

Calibrations:

Calibrations were performed according to the method for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard. All other calibration acceptance criteria were met.

Blanks:

No target metal was detected above the reporting limit (RL) in the method blank.

Spikes:

Laboratory Control Spike (LCS), post-digestion spike (PDS), and dilution test were used for quality assurance. All LCS acceptance criteria were met.

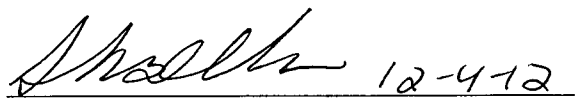
Sample GT12026M (APPL SDG #69306) was selected by the laboratory as the QC sample for the analytical batch. All dilution test and PDS recoveries are reported in APPL report #69306.

Summary:

No analytical exception is noted.

CERTIFICATION

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. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.



Sharon Dehmlow, Laboratory Director / Date

Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other - explain
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel.
Y	Percent difference between primary and confirmation column > 40%

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 69287

Client: **Parsons**
Address: **8000 Centre Park Drive Ste 200**
Austin, TX 78754
Attn: **Tammy Chang**
Phone: **512-719-6092** Fax: **512-719-6099**
Job: **748350.02000 CSSA**
PO #: **748350.30002 (prime *G012)**
Chain of Custody (Y/N): **Y** # **111312APPFA**
RAD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **7 DAYS**

Received by: **CM**
Date Received: **11/15/12** Time: **11:45**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-6**
Chest Temp(s): **1.0°C**
Color: **A_FREZ**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Diane Anderson** hp
QC Report Type: **DVP4/AFCEE/ERPIMS/TX**
Due Date: **11/22/12**

Comments:
Prelim muscle (meat) data due 11-26-12; final report due in 12-3-12.
pdf ARF to Tammy & Pam; send 1 DVP3 HC & send DVP3 & DVP4 on CD to Tammy.

Case Narrative. CSSA QAPP. Only report MS/MSD when requested.
Report results on APPL forms: U to the RL; report results in wet weight (without moisture correction)
Wait to do moisture analysis after metals analysis.
EDD: ERPIMS 4 Lab PC4 checked TXF to Pam.Ford@parsons.com
Samples were rec'd 11/15/12.

11-16 Sent ARF

Sample Distribution:
Metals: 3-$6010BDODS(Pb)
Wetlab: 3-MOIST
Other: 3-_M3050

Charges:

Invoice To:
8000 Centre Park Drive Ste 200
Austin, TX 78754-5140
Attn: Ellen Felfe

	Client ID	APPL ID	Sampled	Analyses Requested
1.	GT12022M	AY71799M	11/09/12 17:30	$6010BDODS(Pb), MOIST
2.	GT12023M	AY71802M	11/12/12 17:00	$6010BDODS(Pb), MOIST
3.	GT12024M	AY71805M	11/12/12 17:00	$6010BDODS(Pb), MOIST

APPL Sample Receipt Form

ARF# **69287**

Sample	Container Type	Count	pH
AY71799	[35] Plastic Bag	1	na
AY71802	[35] Plastic Bag	1	na
AY71805	[35] Plastic Bag	1	na

Sample	Container Type	Count	pH

64287

Camp Stanley Storage Activity Chain Of Custody

1.0°C

COC ID:	111312APPFA	Relinquish_Date:	11/13/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	EN	LabCode:	APPF
Job Number:	748350.02000	Relinquish_Time:	1:00 PM	Carrier:	FedEx
Creation Date:	11/13/2012	Collection Team:	SE	Airbill Carrier:	876436444215
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): Sam Elliott

LOCID:	GT12022B		LOGDATE:	11/9/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME: 17:30	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B	LEAD
SED:	0	FLDSAMPID	GT12022B_110912_N1730				EBLOT:	Containers: 1		
Remarks:										
LOCID:	GT12022L		LOGDATE:	11/9/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME: 17:30	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B	LEAD
SED:	0	FLDSAMPID	GT12022L_110912_N1730				EBLOT:	Containers: 1		
Remarks:										
LOCID:	GT12022M		LOGDATE:	11/9/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME: 17:30	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B	LEAD
SED:	0	FLDSAMPID	GT12022M_110912_N1730				EBLOT:	Containers: 1		
Remarks:										
LOCID:	GT12023B		LOGDATE:	11/12/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME: 17:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B	LEAD
SED:	0	FLDSAMPID	GT12023B_111212_N1700				EBLOT:	Containers: 1		
Remarks:										
LOCID:	GT12023L		LOGDATE:	11/12/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME: 17:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B	LEAD
SED:	0	FLDSAMPID	GT12023L_111212_N1700				EBLOT:	Containers: 1		
Remarks:										
LOCID:	GT12023M		LOGDATE:	11/12/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME: 17:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B	LEAD
SED:	0	FLDSAMPID	GT12023M_111212_N1700				EBLOT:	Containers: 1		
Remarks:										
LOCID:	GT12024B		LOGDATE:	11/12/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME: 17:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B	LEAD
SED:	0	FLDSAMPID	GT12024B_111212_N1700				EBLOT:	Containers: 1		
Remarks:										
LOCID:	GT12024L		LOGDATE:	11/12/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME: 17:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B	LEAD
SED:	0	FLDSAMPID	GT12024L_111212_N1700				EBLOT:	Containers: 1		
Remarks:										

Relinquished by: S. Elliott Date 11/13/12 Time 1300

Recieved by: Yang Yo Date 11/13/12 Time 11:45

Relinquished by: _____ Date _____ Time _____

Recieved by: _____ 10 Date _____ Time _____

Relinquished by: _____ Date _____ Time _____

Recieved by: _____ Date _____ Time _____

Camp Stanley Storage Activity Chain Of Custody

COC ID:	111312APPFA	Relinquish_Date:	11/13/2012	Cooler ID:	A	Sampler(s): Sam Elliott. Sa Elliott
Project Location:	CSSA	Relinquished_By:	EN	LabCode:	APPF	
Job Number:	748350.02000	Relinquish_Time:	1:00 PM	Carrier:	FedEx	
Creation Date:	11/13/2012	Collection Team:	SE	Airbill Carrier:	876436444215	
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT	

LOCID: **GT12024M** LOGDATE: **11/12/2012** MATRIX: **TA** TBLOT:

SBD: **0** LOGTIME: **17:00** SACODE: **N** SMCODE: **G** ABLOT:

SED: **0** FLDSAMPID **GT12024M_111212_N1700** EBLOT: Containers: 1

Remarks:

Analysis Required:

SW6010B LEAD

Relinquished by: S. Elliott Date 11/13/12 Time 1300

Recieved by: Young Zo Date 11/15/12 Time 11:45

Relinquished by:_____ Date_____ Time____

Recieved by:_____ Date_____ Time____

Relinquished by:_____ Date_____ Time____

Recieved by:_____ Date_____ Time____

COOLER RECEIPT FORM

11/15/12

1) Project: 748350.02000CSSA Date Received: ~~11/14/12~~

2) Coolers: Number of Coolers: 1

3) YES NO Were coolers and samples screened for radioactivity?

4) YES NO Were custody seals on outside of cooler? How many? 1 Date on seal? 11/13/12

5) Name on seal?

6) YES NO NA Were custody seals unbroken and intact at the time of arrival?

7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex

8) Shipping slip numbers: 1) 876436444215 2) 3)

9) YES NO NA Was the shipping slip scanned into the database?

10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Ziploc wet ice

12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?

13) YES NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: A39267 Correction factor: 0

15) Cooler temp(s): 1) 1.0° 2) 3) 4) 5) 6) 7) 8)

Chain of custody:

16) YES NO Was a chain of custody received?

17) YES NO Were the custody papers signed in the appropriate places?

18) YES NO Was the project identifiable from custody papers?

19) YES NO Did the chain of custody include date and time of sampling?

20) YES NO Is location where sample was taken listed on the chain of custody?

CUSTODY SEAL

Signature

Date & Time Collected 11/13/12

Sample Labels:

21) YES NO Were container labels in good condition?

22) YES NO Was the client ID on the label?

23) YES NO Was the date of sampling on the label?

24) YES NO Was the time of sampling on the label?

25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?

27) YES NO Did all containers arrive unbroken?

28) YES NO Was there any leakage from samples?

29) YES NO Were any of the lids cracked or broken?

30) YES NO Were correct containers used for the tests indicated?

31) YES NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea:

Smaller than a pea:

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO NA Unpreserved VOA Vials received?

38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

Lab notified if pH was not adequate:

Deficiencies:

Signature of personnel receiving samples: Second reviewer:

Signature of project manager notified: Date and Time of notification:

Name of client notified: Date and Time of notification:

Information given to client:

by whom (Initials):

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/21/12	11/21/12	#6010B-121121C-AY71935

Metals SC-Blank-REG MDLs
Printed: 11/26/12 11:29:39 AM

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	9.8	98.0	80-120	11/21/12	11/21/12	#6010B-121121C-AY71935

Comments: _____

METALS
Sample Data

APPL, INC.

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12022M
Sample Collection Date: 11/09/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69287
APPL ID: AY71799

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/21/12	11/21/12

Printed: 11/26/12 11:29:33 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 99
Sample ID: AY71799M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.56 g
Dilution:

Autosampler Location: 118
Date Collected: 11/21/12 6:41:14 PM
Data Type: Reprocessed on 11/26/12 10:26:28 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71799M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	304.8	2.262	ug/L	0.5974	0.088	mg/kg	0.0233	26.41%
Al 308.215	43.0	23.30	ug/L	1.824	0.910	mg/kg	0.0713	7.83%
As 188.979	-2.2	-0.419	ug/L	0.6999	-0.016	mg/kg	0.0273	167.00%
B	50.7	14.45	ug/L	3.565	0.564	mg/kg	0.1393	24.68%
Ba 233.527	283.4	1.248	ug/L	0.1089	0.049	mg/kg	0.0043	8.72%
Be 313.107	-1239.2	-0.189	ug/L	0.0201	-0.007	mg/kg	0.0008	10.65%
Ca 315.887	15340.2	1175	ug/L	4.5	45.92	mg/kg	0.177	0.38%
Cd 214.440	125.3	0.276	ug/L	0.0563	0.011	mg/kg	0.0022	20.39%
Co 228.616	56.0	0.723	ug/L	0.1723	0.028	mg/kg	0.0067	23.84%
Cr 267.716	507.9	3.429	ug/L	0.0844	0.134	mg/kg	0.0033	2.46%
Cu 327.393	4132.0	37.71	ug/L	0.473	1.473	mg/kg	0.0185	1.25%
Fe 273.955	13033.4	467.2	ug/L	0.61	18.25	mg/kg	0.024	0.13%
K 766.490	272140.1	66530	ug/L	233.7	2599	mg/kg	9.1	0.35%
Mg 285.213	106165.7	5157	ug/L	27.4	201.5	mg/kg	1.07	0.53%
Mn 257.610	435.6	7.307	ug/L	0.1177	0.285	mg/kg	0.0046	1.61%
Mo 202.031	47.6	1.176	ug/L	0.1171	0.046	mg/kg	0.0046	9.96%
Na 589.592	89327.2	6316	ug/L	42.2	246.7	mg/kg	1.65	0.67%
Ni 231.604	-61.2	-0.990	ug/L	0.1836	-0.039	mg/kg	0.0072	18.56%
P 213.617	296960.8	42490	ug/L	267.1	1660	mg/kg	10.4	0.63%
Pb 220.353	-24.7	-1.616	ug/L	0.7431	-0.063	mg/kg	0.0290	46.00%
Sb 206.836	11.1	1.612	ug/L	0.2399	0.063	mg/kg	0.0094	14.89%
Se 196.026	136.9	24.09	ug/L	1.948	0.941	mg/kg	0.0761	8.08%
Sn 189.927	-70.8	-9.409	ug/L	0.4985	-0.368	mg/kg	0.0195	5.30%
Sr 421.552	933.1	1.011	ug/L	0.0946	0.039	mg/kg	0.0037	9.36%
Ti 337.279	109.3	1.883	ug/L	0.1911	0.074	mg/kg	0.0075	10.15%
Tl 190.801	0.4	0.059	ug/L	0.5532	0.002	mg/kg	0.0216	944.32%
V 292.402	-33.7	-0.294	ug/L	0.3468	-0.011	mg/kg	0.0135	118.15%
Zn 206.200	67224.0	749.4	ug/L	2.51	29.27	mg/kg	0.098	0.34%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12023M
Sample Collection Date: 11/12/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69287
APPL ID: AY71802

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/21/12	11/21/12

Printed: 11/26/12 11:29:33 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 100
Sample ID: AY71802M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.58 g
Dilution:

Autosampler Location: 119
Date Collected: 11/21/12 6:46:07 PM
Data Type: Reprocessed on 11/26/12 10:26:29 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71802M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	239.3	1.776	ug/L	0.3628	0.069	mg/kg	0.0141	20.43%
Al 308.215	53.0	28.94	ug/L	4.613	1.122	mg/kg	0.1788	15.94%
As 188.979	0.1	0.013	ug/L	1.7363	0.001	mg/kg	0.0673	>999.9%
B	42.9	12.83	ug/L	1.835	0.497	mg/kg	0.0711	14.30%
Ba 233.527	279.0	1.171	ug/L	0.1011	0.045	mg/kg	0.0039	8.63%
Be 313.107	-1260.7	-0.192	ug/L	0.0072	-0.007	mg/kg	0.0003	3.77%
Ca 315.887	19867.9	1524	ug/L	4.8	59.07	mg/kg	0.186	0.32%
Cd 214.440	127.5	0.265	ug/L	0.0205	0.010	mg/kg	0.0008	7.72%
Co 228.616	47.0	0.586	ug/L	0.2646	0.023	mg/kg	0.0103	45.14%
Cr 267.716	401.9	2.713	ug/L	0.1569	0.105	mg/kg	0.0061	5.78%
Cu 327.393	3826.6	34.92	ug/L	0.288	1.353	mg/kg	0.0112	0.83%
Fe 273.955	15966.6	573.1	ug/L	2.20	22.21	mg/kg	0.085	0.38%
K 766.490	232192.3	56760	ug/L	169.7	2200	mg/kg	6.6	0.30%
Mg 285.213	85650.7	4161	ug/L	7.5	161.3	mg/kg	0.29	0.18%
Mn 257.610	303.2	5.062	ug/L	0.1686	0.196	mg/kg	0.0065	3.33%
Mo 202.031	39.9	1.109	ug/L	0.3021	0.043	mg/kg	0.0117	27.25%
Na 589.592	158124.3	11210	ug/L	14.7	434.3	mg/kg	0.57	0.13%
Ni 231.604	-16.1	-0.299	ug/L	0.1786	-0.012	mg/kg	0.0069	59.69%
P 213.617	238163.4	34080	ug/L	243.2	1321	mg/kg	9.4	0.71%
Pb 220.353	-19.3	-1.260	ug/L	0.4469	-0.049	mg/kg	0.0173	35.48%
Sb 206.836	8.8	1.277	ug/L	1.2349	0.049	mg/kg	0.0479	96.70%
Se 196.026	103.7	18.07	ug/L	2.623	0.701	mg/kg	0.1017	14.51%
Sn 189.927	-68.0	-9.046	ug/L	1.1728	-0.351	mg/kg	0.0455	12.97%
Sr 421.552	2807.9	2.637	ug/L	0.0994	0.102	mg/kg	0.0039	3.77%
Ti 337.279	200.6	3.794	ug/L	0.2339	0.147	mg/kg	0.0091	6.16%
Tl 190.801	-4.9	-0.692	ug/L	0.3475	-0.027	mg/kg	0.0135	50.22%
V 292.402	-42.3	-0.389	ug/L	0.1295	-0.015	mg/kg	0.0050	33.28%
Zn 206.200	137201.7	1529	ug/L	3.6	59.25	mg/kg	0.140	0.24%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12024M
Sample Collection Date: 11/12/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69287
APPL ID: AY71805

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/21/12	11/21/12

Printed: 11/26/12 11:29:33 AM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 101
Sample ID: AY71805M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.47 g
Dilution:

Autosampler Location: 120
Date Collected: 11/21/12 6:51:00 PM
Data Type: Reprocessed on 11/26/12 10:26:30 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71805M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	258.4	1.918	ug/L	0.5255	0.078	mg/kg	0.0213	27.40%
Al 308.215	14.2	7.957	ug/L	4.5717	0.322	mg/kg	0.1851	57.46%
As 188.979	-1.4	-0.274	ug/L	0.5141	-0.011	mg/kg	0.0208	187.28%
B	27.6	9.261	ug/L	1.2762	0.375	mg/kg	0.0517	13.78%
Ba 233.527	202.7	0.692	ug/L	0.0711	0.028	mg/kg	0.0029	10.27%
Be 313.107	-1298.9	-0.198	ug/L	0.0071	-0.008	mg/kg	0.0003	3.60%
Ca 315.887	12969.8	993.7	ug/L	4.57	40.23	mg/kg	0.185	0.46%
Cd 214.440	152.2	0.327	ug/L	0.0399	0.013	mg/kg	0.0016	12.20%
Co 228.616	39.2	0.483	ug/L	0.2496	0.020	mg/kg	0.0101	51.69%
Cr 267.716	335.2	2.266	ug/L	0.0286	0.092	mg/kg	0.0012	1.26%
Cu 327.393	3531.5	32.23	ug/L	0.388	1.305	mg/kg	0.0157	1.20%
Fe 273.955	18422.6	661.7	ug/L	4.00	26.79	mg/kg	0.162	0.60%
K 766.490	226130.5	55280	ug/L	360.3	2238	mg/kg	14.6	0.65%
Mg 285.213	89979.8	4371	ug/L	21.2	177.0	mg/kg	0.86	0.48%
Mn 257.610	163.1	2.632	ug/L	0.0675	0.107	mg/kg	0.0027	2.57%
Mo 202.031	45.8	1.258	ug/L	0.2057	0.051	mg/kg	0.0083	16.35%
Na 589.592	122219.3	8657	ug/L	51.4	350.5	mg/kg	2.08	0.59%
Ni 231.604	-47.4	-0.768	ug/L	0.2493	-0.031	mg/kg	0.0101	32.47%
P 213.617	242901.6	34750	ug/L	381.5	1407	mg/kg	15.4	1.10%
Pb 220.353	-36.5	-2.388	ug/L	0.3647	-0.097	mg/kg	0.0148	15.27%
Sb 206.836	9.9	1.441	ug/L	0.6687	0.058	mg/kg	0.0271	46.41%
Se 196.026	100.5	17.58	ug/L	0.769	0.712	mg/kg	0.0311	4.37%
Sn 189.927	-74.5	-9.904	ug/L	0.8536	-0.401	mg/kg	0.0346	8.62%
Sr 421.552	1238.4	1.245	ug/L	0.0801	0.050	mg/kg	0.0032	6.43%
Ti 337.279	107.0	1.885	ug/L	0.1129	0.076	mg/kg	0.0046	5.99%
Tl 190.801	-6.4	-0.911	ug/L	0.8613	-0.037	mg/kg	0.0349	94.51%
V 292.402	-42.4	-0.409	ug/L	0.3073	-0.017	mg/kg	0.0124	75.05%
Zn 206.200	149794.3	1669	ug/L	12.3	67.56	mg/kg	0.499	0.74%

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69287 SDG: 69287
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/21/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:56	%R(1)	True CCV1	Found 12:21	%R(1)	True CCV2	Found 18:24	%R(1)	
Lead (Pb)	1000	1041	104	1000	1044	104	750	815.8	109	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69287 SDG: 69287
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/21/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:56	%R(1)	True CCV1	Found 19:20	%R(1)	True	Found	%R(1)	
Lead (Pb)	1000	1041	104	1000	1081	108				P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69287 SDG: 69287

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 11/21/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C			
	12:04		12:24		18:28		19:24		18:32				
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U	P		

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69287 SDG: 69287

ICP ID Number: Phoebe ICS Source: Environmental Express

Analysis Date: 11/21/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 12:12	Sol AB 12:16	%R(1)
Aluminum (Al)	200000	200000	194000	190500	95.3
Calcium (Ca)	200000	200000	195100	193800	96.9
Iron (Fe)	200000	200000	180800	178000	89.0
Magnesium (Mg)	200000	200000	188500	189500	94.8
Lead (Pb)		1000	0.754	963.7	96.4

(1) Control Limits: Metals 80-120

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 121121B6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1 Autosampler Location: 1
Sample ID: CalBlk 121121EA I:PB O:EA Date Collected: 11/21/12 11:42:02 AM
Analyst: Data Type: Reprocessed on 11/26/12 10:24:48 AM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CalBlk 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-195.2	56.98	29.19%	[0.00]	ug/L
Al 308.215	135.1	12.04	8.91%	[0.00]	ug/L
As 188.979	-1.8	7.01	382.12%	[0.00]	ug/L
B	9.3	6.34	68.28%	[0.00]	ug/L
Ba 233.527	133.3	8.19	6.14%	[0.00]	ug/L
Be 313.107	1732.9	75.11	4.33%	[0.00]	ug/L
Ca 315.887	-209.0	10.20	4.88%	[0.00]	ug/L
Cd 214.440	406.1	11.10	2.73%	[0.00]	ug/L
Co 228.616	53.5	8.26	15.44%	[0.00]	ug/L
Cr 267.716	633.2	13.95	2.20%	[0.00]	ug/L
Cu 327.393	-183.3	33.71	18.39%	[0.00]	ug/L
Fe 273.955	532.6	15.18	2.85%	[0.00]	ug/L
K 766.490	-507.4	83.36	16.43%	[0.00]	ug/L
Mg 285.213	-45.3	11.65	25.74%	[0.00]	ug/L
Mn 257.610	-13.3	10.71	80.80%	[0.00]	ug/L
Mo 202.031	175.5	2.97	1.69%	[0.00]	ug/L
Na 589.592	205.0	131.02	63.92%	[0.00]	ug/L
Ni 231.604	-209.1	4.56	2.18%	[0.00]	ug/L
P 213.617	46.8	7.16	15.30%	[0.00]	ug/L
Pb 220.353	-41.6	11.11	26.73%	[0.00]	ug/L
Sb 206.836	-2.2	3.72	169.59%	[0.00]	ug/L
Se 196.026	-29.2	12.64	43.28%	[0.00]	ug/L
Sn 189.927	-15.1	1.06	7.01%	[0.00]	ug/L
Sr 421.552	899.5	127.66	14.19%	[0.00]	ug/L
Ti 337.279	-369.8	10.10	2.73%	[0.00]	ug/L
Tl 190.801	-12.3	2.38	19.40%	[0.00]	ug/L
V 292.402	-799.1	86.30	10.80%	[0.00]	ug/L
Zn 206.200	-384.2	6.60	1.72%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/21/12 11:46:24 AM
Data Type: Reprocessed on 11/26/12 10:24:50 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	263.8	45.35	17.19%	[1.00]	ug/L
Al 308.215	212.5	11.30	5.32%	[100.00]	ug/L
As 188.979	19.4	8.05	41.50%	[3.50]	ug/L
B	225.4	4.10	1.82%	[50.00]	ug/L
Ba 233.527	959.6	22.54	2.35%	[5.00]	ug/L
Be 313.107	13791.7	280.79	2.04%	[2.00]	ug/L
Ca 315.887	1393.6	37.55	2.69%	[100.00]	ug/L
Cd 214.440	2154.4	23.83	1.11%	[5.00]	ug/L
Co 228.616	420.7	18.72	4.45%	[5.00]	ug/L
Cr 267.716	837.8	15.19	1.81%	[5.00]	ug/L
Cu 327.393	549.7	41.37	7.53%	[5.00]	ug/L
Fe 273.955	1437.8	14.46	1.01%	[50.00]	ug/L
K 766.490	3250.3	62.11	1.91%	[1000.00]	ug/L
Mg 285.213	1097.4	3.01	0.27%	[50]	ug/L
Mn 257.610	312.4	4.81	1.54%	[5.00]	ug/L
Mo 202.031	235.6	6.66	2.83%	[5.00]	ug/L
Na 589.592	15025.3	176.31	1.17%	[1000.00]	ug/L
Ni 231.604	389.5	8.05	2.07%	[5.00]	ug/L
P 213.617	171.9	7.82	4.55%	[25.00]	ug/L
Pb 220.353	40.1	10.28	25.66%	[3.00]	ug/L
Sb 206.836	38.4	1.74	4.53%	[5.00]	ug/L
Se 196.026	42.5	10.71	25.21%	[5.00]	ug/L
Sn 189.927	41.7	1.01	2.43%	[5.00]	ug/L
Sr 421.552	6037.1	201.21	3.33%	[5.00]	ug/L
Ti 337.279	247.7	15.67	6.33%	[5.00]	ug/L
Tl 190.801	41.8	1.21	2.90%	[5.00]	ug/L
V 292.402	1289.9	106.84	8.28%	[5.00]	ug/L
Zn 206.200	2196.3	10.42	0.47%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/21/12 11:50:47 AM
Data Type: Reprocessed on 11/26/12 10:24:51 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	70181.8	443.94	0.63%	[500.0]	ug/L
Al 308.215	37685.6	653.30	1.73%	[20000.00]	ug/L
As 188.979	5197.5	49.91	0.96%	[1000.00]	ug/L
B	3981.3	50.28	1.26%	[1000.00]	ug/L
Ba 233.527	180039.7	1363.90	0.76%	[1000.00]	ug/L
Be 313.107	6636766.8	92907.82	1.40%	[1000.00]	ug/L
Ca 315.887	665678.4	2348.01	0.35%	[50000]	ug/L
Cd 214.440	379457.1	2201.84	0.58%	[1000.00]	ug/L
Co 228.616	73222.7	619.37	0.85%	[1000.00]	ug/L
Cr 267.716	150186.2	959.12	0.64%	[1000.00]	ug/L
Cu 327.393	109017.6	786.46	0.72%	[1000.00]	ug/L
Fe 273.955	580517.9	3925.83	0.68%	[20000]	ug/L
K 766.490	80185.2	1141.30	1.42%	[20000]	ug/L
Mg 285.213	1062744.5	2915.89	0.27%	[50000]	ug/L
Mn 257.610	58120.9	861.39	1.48%	[1000.00]	ug/L
Mo 202.031	49800.5	132.00	0.27%	[1000.00]	ug/L
Na 589.592	353487.9	1313.42	0.37%	[25000]	ug/L
Ni 231.604	68371.3	252.75	0.37%	[1000.00]	ug/L
P 213.617	35452.9	94.46	0.27%	[5000]	ug/L
Pb 220.353	15630.2	14.69	0.09%	[1000.00]	ug/L
Sb 206.836	7218.4	26.65	0.37%	[1000.00]	ug/L
Se 196.026	5391.1	38.67	0.72%	[1000.00]	ug/L
Sn 189.927	7895.8	14.54	0.18%	[1000.00]	ug/L
Sr 421.552	1129661.7	4041.68	0.36%	[1000.00]	ug/L
Ti 337.279	50849.0	710.00	1.40%	[1000.00]	ug/L
Tl 190.801	7204.9	9.96	0.14%	[1000.00]	ug/L
V 292.402	251901.7	1496.57	0.59%	[1000.00]	ug/L
Zn 206.200	91960.9	629.29	0.68%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 11/21/12 11:53:28 AM
Data Type: Reprocessed on 11/26/12 10:24:52 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	133327.2	352.80	0.26%	[1000.00]	ug/L
Al 308.215	73691.6	132.93	0.18%	[40000.00]	ug/L
As 188.979	10300.8	15.31	0.15%	[2000.00]	ug/L
B	7928.5	90.12	1.14%	[2000.00]	ug/L
Ba 233.527	353580.8	2397.12	0.68%	[2000.00]	ug/L
Be 313.107	13069672.9	56798.82	0.43%	[2000.00]	ug/L
Ca 315.887	1292159.9	9206.51	0.71%	[100000.0]	ug/L
Cd 214.440	735678.6	5905.59	0.80%	[2000.00]	ug/L
Co 228.616	143347.8	943.04	0.66%	[2000.00]	ug/L
Cr 267.716	295355.5	1951.43	0.66%	[2000.00]	ug/L
Cu 327.393	219453.4	246.01	0.11%	[2000.00]	ug/L
Fe 273.955	1097782.1	8455.69	0.77%	[40000]	ug/L
K 766.490	164460.5	1646.87	1.00%	[40000]	ug/L
Mg 285.213	2041134.1	13074.74	0.64%	[100000]	ug/L
Mn 257.610	114930.5	990.29	0.86%	[2000.00]	ug/L
Mo 202.031	91541.4	596.27	0.65%	[2000.00]	ug/L
Na 589.592	703313.3	6625.62	0.94%	[50000]	ug/L
Ni 231.604	131395.7	696.10	0.53%	[2000.00]	ug/L
P 213.617	69639.7	435.22	0.62%	[10000]	ug/L
Pb 220.353	30396.9	195.88	0.64%	[2000.00]	ug/L
Sb 206.836	13631.7	66.33	0.49%	[2000.00]	ug/L
Se 196.026	10561.7	39.44	0.37%	[2000.00]	ug/L
Sn 189.927	14856.3	76.73	0.52%	[2000.00]	ug/L
Sr 421.552	2247510.9	20861.49	0.93%	[2000.00]	ug/L
Ti 337.279	96848.4	463.53	0.48%	[2000.00]	ug/L
Tl 190.801	14040.0	69.30	0.49%	[2000.00]	ug/L
V 292.402	499824.9	3017.75	0.60%	[2000.00]	ug/L
Zn 206.200	178509.7	1635.29	0.92%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	134.7	0.00000	0.999782	
Al 308.215	3	Lin Thru 0	0.0	1.851	0.00000	0.999959	
As 188.979	3	Lin Thru 0	0.0	5.160	0.00000	0.999993	
B	3	Lin Thru 0	0.0	3.968	0.00000	0.999994	
Ba 233.527	3	Lin Thru 0	0.0	177.4	0.00000	0.999973	
Be 313.107	3	Lin Thru 0	0.0	6555	0.00000	0.999981	
Ca 315.887	3	Lin Thru 0	0.0	13.00	0.00000	0.999927	
Cd 214.440	3	Lin Thru 0	0.0	370.2	0.00000	0.999921	
Co 228.616	3	Lin Thru 0	0.0	71.98	0.00000	0.999963	
Cr 267.716	3	Lin Thru 0	0.0	148.2	0.00000	0.999977	
Cu 327.393	3	Lin Thru 0	0.0	109.6	0.00000	0.999997	
Fe 273.955	3	Lin Thru 0	0.0	27.76	0.00000	0.999741	
K 766.490	3	Lin Thru 0	0.0	4.091	0.00000	0.999939	
Mg 285.213	3	Lin Thru 0	0.0	20.58	0.00000	0.999866	
Mn 257.610	3	Lin Thru 0	0.0	57.60	0.00000	0.999990	
Mo 202.031	3	Lin Thru 0	0.0	46.58	0.00000	0.999402	
Na 589.592	3	Lin Thru 0	0.0	14.08	0.00000	0.999997	
Ni 231.604	3	Lin Thru 0	0.0	66.23	0.00000	0.999870	
P 213.617	3	Lin Thru 0	0.0	6.989	0.00000	0.999974	
Pb 220.353	3	Lin Thru 0	0.0	15.28	0.00000	0.999936	
Sb 206.836	3	Lin Thru 0	0.0	6.896	0.00000	0.999728	
Se 196.026	3	Lin Thru 0	0.0	5.303	0.00000	0.999965	
Sn 189.927	3	Lin Thru 0	0.0	7.522	0.00000	0.999691	
Sr 421.552	3	Lin Thru 0	0.0	1125	0.00000	0.999998	
Ti 337.279	3	Lin Thru 0	0.0	48.91	0.00000	0.999803	
Tl 190.801	3	Lin Thru 0	0.0	7.057	0.00000	0.999945	

V 292.402	3	Lin Thru 0	0.0	250.3	0.00000	0.999995
Zn 206.200	3	Lin Thru 0	0.0	89.80	0.00000	0.999925

Sequence No.: 5
Sample ID: ICV 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 11/21/12 11:56:43 AM
Data Type: Reprocessed on 11/26/12 10:24:53 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65946.4	489.5	ug/L	8.11	489.5	ug/L	8.11	1.66%
QC value within limits for Ag 338.289 Recovery = 97.89%								
Al 308.215	44119.7	23850	ug/L	153.4	23850	ug/L	153.4	0.64%
QC value within limits for Al 308.215 Recovery = 95.40%								
As 188.979	5085.7	985.6	ug/L	1.36	985.6	ug/L	1.36	0.14%
QC value within limits for As 188.979 Recovery = 98.56%								
B	3871.9	1052	ug/L	2.2	1052	ug/L	2.2	0.21%
QC value within limits for B Recovery = 105.20%								
Ba 233.527	172893.5	960.8	ug/L	10.59	960.8	ug/L	10.59	1.10%
QC value within limits for Ba 233.527 Recovery = 96.08%								
Be 313.107	6553308.6	999.7	ug/L	1.73	999.7	ug/L	1.73	0.17%
QC value within limits for Be 313.107 Recovery = 99.97%								
Ca 315.887	318751.3	24510	ug/L	152.8	24510	ug/L	152.8	0.62%
QC value within limits for Ca 315.887 Recovery = 98.04%								
Cd 214.440	372626.3	1006	ug/L	12.0	1006	ug/L	12.0	1.19%
QC value within limits for Cd 214.440 Recovery = 100.60%								
Co 228.616	72215.9	1002	ug/L	11.7	1002	ug/L	11.7	1.17%
QC value within limits for Co 228.616 Recovery = 100.23%								
Cr 267.716	148174.2	1001	ug/L	11.0	1001	ug/L	11.0	1.10%
QC value within limits for Cr 267.716 Recovery = 100.12%								
Cu 327.393	105641.0	964.0	ug/L	11.23	964.0	ug/L	11.23	1.17%
QC value within limits for Cu 327.393 Recovery = 96.40%								
Fe 273.955	679048.7	24380	ug/L	256.1	24380	ug/L	256.1	1.05%
QC value within limits for Fe 273.955 Recovery = 97.52%								
K 766.490	94035.2	22980	ug/L	96.2	22980	ug/L	96.2	0.42%
QC value within limits for K 766.490 Recovery = 91.91%								
Mg 285.213	508780.3	24750	ug/L	118.8	24750	ug/L	118.8	0.48%
QC value within limits for Mg 285.213 Recovery = 99.00%								
Mn 257.610	58447.3	1015	ug/L	3.9	1015	ug/L	3.9	0.38%
QC value within limits for Mn 257.610 Recovery = 101.55%								
Mo 202.031	45074.2	970.3	ug/L	12.43	970.3	ug/L	12.43	1.28%
QC value within limits for Mo 202.031 Recovery = 97.03%								
Na 589.592	344556.7	24450	ug/L	100.1	24450	ug/L	100.1	0.41%
QC value within limits for Na 589.592 Recovery = 97.80%								
Ni 231.604	68127.6	1026	ug/L	12.5	1026	ug/L	12.5	1.22%
QC value within limits for Ni 231.604 Recovery = 102.64%								
P 213.617	32669.4	4674	ug/L	66.8	4674	ug/L	66.8	1.43%
QC value within limits for P 213.617 Recovery = 93.48%								
Pb 220.353	15908.2	1041	ug/L	3.5	1041	ug/L	3.5	0.34%
QC value within limits for Pb 220.353 Recovery = 104.08%								
Sb 206.836	7022.4	1018	ug/L	4.5	1018	ug/L	4.5	0.44%
QC value within limits for Sb 206.836 Recovery = 101.83%								
Se 196.026	5386.8	1028	ug/L	0.5	1028	ug/L	0.5	0.05%
QC value within limits for Se 196.026 Recovery = 102.76%								
Sn 189.927	4055.9	539.2	ug/L	2.62	539.2	ug/L	2.62	0.49%
QC value within limits for Sn 189.927 Recovery = 107.85%								
Sr 421.552	1102872.0	980.1	ug/L	4.68	980.1	ug/L	4.68	0.48%
QC value within limits for Sr 421.552 Recovery = 98.01%								
Ti 337.279	44947.5	918.6	ug/L	7.23	918.6	ug/L	7.23	0.79%
QC value within limits for Ti 337.279 Recovery = 91.86%								
Tl 190.801	7076.8	1003	ug/L	0.8	1003	ug/L	0.8	0.08%
QC value within limits for Tl 190.801 Recovery = 100.28%								
V 292.402	247140.2	1004	ug/L	11.8	1004	ug/L	11.8	1.18%
QC value within limits for V 292.402 Recovery = 100.36%								
Zn 206.200	92771.8	1042	ug/L	11.1	1042	ug/L	11.1	1.06%
QC value within limits for Zn 206.200 Recovery = 104.24%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICB 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/21/12 12:04:07 PM
Data Type: Reprocessed on 11/26/12 10:24:54 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	100.4	0.745	ug/L	0.7780	0.745	ug/L	0.7780	104.43%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	13.3	7.170	ug/L	2.5872	7.170	ug/L	2.5872	36.08%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	5.5	1.074	ug/L	0.2954	1.074	ug/L	0.2954	27.50%
QC value within limits for As 188.979 Recovery = Not calculated								
B	29.4	7.408	ug/L	1.5471	7.408	ug/L	1.5471	20.88%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	13.0	0.072	ug/L	0.0519	0.072	ug/L	0.0519	72.38%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-54.4	-0.008	ug/L	0.0190	-0.008	ug/L	0.0190	229.33%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	-26.7	-2.060	ug/L	1.2351	-2.060	ug/L	1.2351	59.96%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	7.3	0.020	ug/L	0.0261	0.020	ug/L	0.0261	132.08%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	17.5	0.244	ug/L	0.0396	0.244	ug/L	0.0396	16.24%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-26.8	-0.182	ug/L	0.0408	-0.182	ug/L	0.0408	22.39%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	78.8	0.719	ug/L	0.3265	0.719	ug/L	0.3265	45.39%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	47.0	1.726	ug/L	0.1735	1.726	ug/L	0.1735	10.05%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	21.5	5.252	ug/L	21.4297	5.252	ug/L	21.4297	407.99%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	9.4	0.456	ug/L	0.3732	0.456	ug/L	0.3732	81.79%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	13.8	0.239	ug/L	0.0899	0.239	ug/L	0.0899	37.53%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	14.4	0.309	ug/L	0.3308	0.309	ug/L	0.3308	107.21%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	175.1	12.43	ug/L	8.849	12.43	ug/L	8.849	71.17%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	7.0	0.104	ug/L	0.2177	0.104	ug/L	0.2177	208.86%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-4.3	-0.622	ug/L	1.1565	-0.622	ug/L	1.1565	185.98%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-0.5	-0.030	ug/L	0.3019	-0.030	ug/L	0.3019	994.40%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	1.5	0.213	ug/L	0.4754	0.213	ug/L	0.4754	223.61%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	9.8	1.854	ug/L	0.5863	1.854	ug/L	0.5863	31.63%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	5.7	0.756	ug/L	0.3768	0.756	ug/L	0.3768	49.87%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-31.9	-0.028	ug/L	0.1250	-0.028	ug/L	0.1250	440.21%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	13.0	0.266	ug/L	0.2874	0.266	ug/L	0.2874	108.20%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	5.5	0.773	ug/L	0.3244	0.773	ug/L	0.3244	41.96%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-98.1	-0.390	ug/L	0.2889	-0.390	ug/L	0.2889	74.10%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	13.7	0.151	ug/L	0.0674	0.151	ug/L	0.0674	44.57%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 11/21/12 12:12:47 PM
Data Type: Reprocessed on 11/26/12 10:24:56 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	13.3	0.099	ug/L	0.3171	0.099	ug/L	0.3171	321.54%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	359014.3	194000	ug/L	1385.7	194000	ug/L	1385.7	0.71%
QC value within limits for Al 308.215 Recovery = 97.00%								
As 188.979	-6.8	-1.321	ug/L	0.8382	-1.321	ug/L	0.8382	63.45%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2270.4	-0.332	ug/L	8.2700	-0.332	ug/L	8.2700	>999.9%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	18736.6	-0.056	ug/L	4.3091	-0.056	ug/L	4.3091	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-699.0	-0.107	ug/L	0.0174	-0.107	ug/L	0.0174	16.33%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2536906.7	195100	ug/L	1767.4	195100	ug/L	1767.4	0.91%
QC value within limits for Ca 315.887 Recovery = 97.55%								
Cd 214.440	3540.3	-0.439	ug/L	0.0905	-0.439	ug/L	0.0905	20.64%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	336.3	-0.817	ug/L	0.1219	-0.817	ug/L	0.1219	14.91%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-75.5	1.332	ug/L	0.0731	1.332	ug/L	0.0731	5.49%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	15.1	0.137	ug/L	0.0337	0.137	ug/L	0.0337	24.53%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	5019337.2	180800	ug/L	978.2	180800	ug/L	978.2	0.54%
QC value within limits for Fe 273.955 Recovery = 90.39%								
K 766.490	154.2	-77.27	ug/L	31.645	-77.27	ug/L	31.645	40.96%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3874113.4	188500	ug/L	1289.7	188500	ug/L	1289.7	0.68%
QC value within limits for Mg 285.213 Recovery = 94.23%								
Mn 257.610	-104.2	1.966	ug/L	0.5001	1.966	ug/L	0.5001	25.43%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-645.6	-0.167	ug/L	0.0656	-0.167	ug/L	0.0656	39.32%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	122.6	-36.37	ug/L	6.046	-36.37	ug/L	6.046	16.62%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	91.1	-0.288	ug/L	0.1270	-0.288	ug/L	0.1270	44.13%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-25.2	-3.599	ug/L	2.6815	-3.599	ug/L	2.6815	74.50%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	11.5	0.754	ug/L	1.0513	0.754	ug/L	1.0513	139.42%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.5	0.513	ug/L	1.2262	0.513	ug/L	1.2262	239.15%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-501.0	0.123	ug/L	4.4921	0.123	ug/L	4.4921	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-1.6	-0.212	ug/L	1.4568	-0.212	ug/L	1.4568	686.33%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2492.4	0.026	ug/L	0.0721	0.026	ug/L	0.0721	276.62%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	143.4	-0.453	ug/L	0.4170	-0.453	ug/L	0.4170	92.16%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-4.6	-0.652	ug/L	0.7461	-0.652	ug/L	0.7461	114.51%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	11114.1	-0.307	ug/L	0.8240	-0.307	ug/L	0.8240	268.28%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	911.5	1.030	ug/L	0.1036	1.030	ug/L	0.1036	10.06%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 11/21/12 12:16:53 PM
Data Type: Reprocessed on 11/26/12 10:24:57 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	135884.0	1009	ug/L	15.7	1009	ug/L	15.7	1.56%
QC value within limits for Ag 338.289 Recovery = 100.85%								
Al 308.215	352499.5	190500	ug/L	1316.6	190500	ug/L	1316.6	0.69%
QC value within limits for Al 308.215 Recovery = 95.25%								
As 188.979	2483.1	481.2	ug/L	2.00	481.2	ug/L	2.00	0.41%
QC value within limits for As 188.979 Recovery = 96.25%								
B	-2218.9	3.452	ug/L	4.4298	3.452	ug/L	4.4298	128.33%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	101754.7	469.8	ug/L	5.12	469.8	ug/L	5.12	1.09%
QC value within limits for Ba 233.527 Recovery = 93.95%								
Be 313.107	3130413.6	477.5	ug/L	2.33	477.5	ug/L	2.33	0.49%
QC value within limits for Be 313.107 Recovery = 95.51%								
Ca 315.887	2519813.3	193800	ug/L	1271.0	193800	ug/L	1271.0	0.66%
QC value within limits for Ca 315.887 Recovery = 96.90%								
Cd 214.440	346536.9	926.5	ug/L	8.54	926.5	ug/L	8.54	0.92%
QC value within limits for Cd 214.440 Recovery = 92.65%								
Co 228.616	33626.7	462.6	ug/L	4.33	462.6	ug/L	4.33	0.94%
QC value within limits for Co 228.616 Recovery = 92.52%								
Cr 267.716	69890.8	474.0	ug/L	5.45	474.0	ug/L	5.45	1.15%
QC value within limits for Cr 267.716 Recovery = 94.80%								
Cu 327.393	53947.2	492.3	ug/L	8.76	492.3	ug/L	8.76	1.78%
QC value within limits for Cu 327.393 Recovery = 98.46%								
Fe 273.955	4944104.2	178000	ug/L	401.7	178000	ug/L	401.7	0.23%
QC value within limits for Fe 273.955 Recovery = 89.02%								
K 766.490	347.0	-30.36	ug/L	29.251	-30.36	ug/L	29.251	96.35%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3895722.6	189500	ug/L	1378.6	189500	ug/L	1378.6	0.73%
QC value within limits for Mg 285.213 Recovery = 94.75%								
Mn 257.610	27620.6	483.2	ug/L	4.65	483.2	ug/L	4.65	0.96%
QC value within limits for Mn 257.610 Recovery = 96.64%								
Mo 202.031	21447.4	474.3	ug/L	0.60	474.3	ug/L	0.60	0.13%
QC value within limits for Mo 202.031 Recovery = 94.87%								
Na 589.592	142.0	-36.49	ug/L	8.266	-36.49	ug/L	8.266	22.65%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	61981.3	933.3	ug/L	9.79	933.3	ug/L	9.79	1.05%
QC value within limits for Ni 231.604 Recovery = 93.33%								
P 213.617	-33.7	-4.828	ug/L	1.3446	-4.828	ug/L	1.3446	27.85%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	14730.0	963.7	ug/L	0.47	963.7	ug/L	0.47	0.05%
QC value within limits for Pb 220.353 Recovery = 96.37%								
Sb 206.836	3240.0	469.8	ug/L	2.24	469.8	ug/L	2.24	0.48%
QC value within limits for Sb 206.836 Recovery = 93.96%								
Se 196.026	2099.9	489.0	ug/L	0.32	489.0	ug/L	0.32	0.07%
QC value within limits for Se 196.026 Recovery = 97.79%								
Sn 189.927	-10.9	-1.450	ug/L	0.7614	-1.450	ug/L	0.7614	52.52%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2400.5	-0.025	ug/L	0.0765	-0.025	ug/L	0.0765	305.26%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	163.7	0.005	ug/L	0.1578	0.005	ug/L	0.1578	>999.9%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3306.4	468.5	ug/L	0.63	468.5	ug/L	0.63	0.14%
QC value within limits for Tl 190.801 Recovery = 93.71%								
V 292.402	131920.3	494.1	ug/L	6.85	494.1	ug/L	6.85	1.39%
QC value within limits for V 292.402 Recovery = 98.83%								
Zn 206.200	84088.7	932.2	ug/L	9.89	932.2	ug/L	9.89	1.06%
QC value within limits for Zn 206.200 Recovery = 93.22%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/21/12 12:21:00 PM
Data Type: Reprocessed on 11/26/12 10:24:58 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	70243.1	521.3	ug/L	2.95	521.3	ug/L	2.95	0.57%
QC value within limits for Ag 338.289 Recovery = 104.27%								
Al 308.215	37827.6	20450	ug/L	264.6	20450	ug/L	264.6	1.29%
QC value within limits for Al 308.215 Recovery = 102.24%								
As 188.979	5250.3	1018	ug/L	8.0	1018	ug/L	8.0	0.79%
QC value within limits for As 188.979 Recovery = 101.75%								
B	3975.3	1065	ug/L	15.2	1065	ug/L	15.2	1.43%
QC value within limits for B Recovery = 106.53%								
Ba 233.527	179362.3	999.3	ug/L	2.24	999.3	ug/L	2.24	0.22%
QC value within limits for Ba 233.527 Recovery = 99.93%								
Be 313.107	6646468.8	1014	ug/L	7.8	1014	ug/L	7.8	0.77%
QC value within limits for Be 313.107 Recovery = 101.39%								
Ca 315.887	673520.3	51800	ug/L	160.2	51800	ug/L	160.2	0.31%
QC value within limits for Ca 315.887 Recovery = 103.60%								
Cd 214.440	379304.1	1024	ug/L	2.3	1024	ug/L	2.3	0.23%
QC value within limits for Cd 214.440 Recovery = 102.42%								
Co 228.616	73035.4	1014	ug/L	4.0	1014	ug/L	4.0	0.39%
QC value within limits for Co 228.616 Recovery = 101.37%								
Cr 267.716	150081.1	1014	ug/L	3.2	1014	ug/L	3.2	0.31%
QC value within limits for Cr 267.716 Recovery = 101.38%								
Cu 327.393	108848.4	993.3	ug/L	2.45	993.3	ug/L	2.45	0.25%
QC value within limits for Cu 327.393 Recovery = 99.33%								
Fe 273.955	579494.7	20790	ug/L	39.7	20790	ug/L	39.7	0.19%
QC value within limits for Fe 273.955 Recovery = 103.95%								
K 766.490	81434.0	19890	ug/L	121.3	19890	ug/L	121.3	0.61%
QC value within limits for K 766.490 Recovery = 99.45%								
Mg 285.213	1076303.0	52320	ug/L	177.1	52320	ug/L	177.1	0.34%
QC value within limits for Mg 285.213 Recovery = 104.64%								
Mn 257.610	58378.5	1013	ug/L	12.8	1013	ug/L	12.8	1.27%
QC value within limits for Mn 257.610 Recovery = 101.27%								
Mo 202.031	50425.3	1085	ug/L	2.4	1085	ug/L	2.4	0.22%
QC value within limits for Mo 202.031 Recovery = 108.48%								
Na 589.592	357117.3	25340	ug/L	96.6	25340	ug/L	96.6	0.38%
QC value within limits for Na 589.592 Recovery = 101.36%								
Ni 231.604	69051.5	1040	ug/L	5.0	1040	ug/L	5.0	0.48%
QC value within limits for Ni 231.604 Recovery = 104.03%								
P 213.617	36158.6	5173	ug/L	20.5	5173	ug/L	20.5	0.40%
QC value within limits for P 213.617 Recovery = 103.47%								
Pb 220.353	15964.6	1044	ug/L	6.9	1044	ug/L	6.9	0.66%
QC value within limits for Pb 220.353 Recovery = 104.45%								
Sb 206.836	7323.6	1062	ug/L	5.6	1062	ug/L	5.6	0.52%
QC value within limits for Sb 206.836 Recovery = 106.20%								
Se 196.026	5515.8	1049	ug/L	9.2	1049	ug/L	9.2	0.88%
QC value within limits for Se 196.026 Recovery = 104.91%								
Sn 189.927	8102.7	1077	ug/L	11.2	1077	ug/L	11.2	1.04%
QC value within limits for Sn 189.927 Recovery = 107.72%								
Sr 421.552	1141536.8	1014	ug/L	3.6	1014	ug/L	3.6	0.36%
QC value within limits for Sr 421.552 Recovery = 101.44%								
Ti 337.279	51072.8	1043	ug/L	13.6	1043	ug/L	13.6	1.30%
QC value within limits for Ti 337.279 Recovery = 104.34%								
Tl 190.801	7247.3	1027	ug/L	2.4	1027	ug/L	2.4	0.24%
QC value within limits for Tl 190.801 Recovery = 102.70%								
V 292.402	251508.2	1024	ug/L	1.5	1024	ug/L	1.5	0.14%
QC value within limits for V 292.402 Recovery = 102.36%								
Zn 206.200	92237.0	1037	ug/L	3.3	1037	ug/L	3.3	0.32%
QC value within limits for Zn 206.200 Recovery = 103.69%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/21/12 12:24:12 PM
Data Type: Reprocessed on 11/26/12 10:24:59 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	95.7	0.710	ug/L	0.6933	0.710	ug/L	0.6933	97.60%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	20.8	11.22	ug/L	3.743	11.22	ug/L	3.743	33.35%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	2.5	0.482	ug/L	1.5598	0.482	ug/L	1.5598	323.61%
QC value within limits for As 188.979 Recovery = Not calculated								
B	32.3	8.148	ug/L	0.8130	8.148	ug/L	0.8130	9.98%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	17.1	0.093	ug/L	0.0489	0.093	ug/L	0.0489	52.55%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	13.2	0.002	ug/L	0.0084	0.002	ug/L	0.0084	414.33%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	-1.2	-0.098	ug/L	0.3704	-0.098	ug/L	0.3704	379.06%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	51.2	0.138	ug/L	0.0846	0.138	ug/L	0.0846	61.22%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	14.2	0.199	ug/L	0.1703	0.199	ug/L	0.1703	85.60%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-12.1	-0.081	ug/L	0.1153	-0.081	ug/L	0.1153	141.86%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	155.6	1.420	ug/L	0.4096	1.420	ug/L	0.4096	28.84%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	157.7	5.657	ug/L	0.3945	5.657	ug/L	0.3945	6.97%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	116.0	28.36	ug/L	31.686	28.36	ug/L	31.686	111.71%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	22.9	1.121	ug/L	0.3520	1.121	ug/L	0.3520	31.41%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	11.7	0.204	ug/L	0.1417	0.204	ug/L	0.1417	69.37%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	25.4	0.547	ug/L	0.4605	0.547	ug/L	0.4605	84.19%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	178.7	12.68	ug/L	3.399	12.68	ug/L	3.399	26.81%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	1.9	0.028	ug/L	0.2239	0.028	ug/L	0.2239	801.87%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-4.7	-0.670	ug/L	0.4824	-0.670	ug/L	0.4824	72.00%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	3.4	0.221	ug/L	0.2924	0.221	ug/L	0.2924	132.57%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	7.7	1.121	ug/L	0.6946	1.121	ug/L	0.6946	61.96%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	14.7	2.773	ug/L	2.2064	2.773	ug/L	2.2064	79.56%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	10.3	1.366	ug/L	0.3766	1.366	ug/L	0.3766	27.57%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	150.9	0.134	ug/L	0.0926	0.134	ug/L	0.0926	69.01%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	5.2	0.107	ug/L	0.2754	0.107	ug/L	0.2754	257.13%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.2	1.165	ug/L	0.5276	1.165	ug/L	0.5276	45.27%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	77.9	0.317	ug/L	0.3253	0.317	ug/L	0.3253	102.77%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	96.4	1.073	ug/L	0.3027	1.073	ug/L	0.3027	28.21%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 95
Sample ID: CCV2 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 11/21/12 6:24:38 PM
Data Type: Reprocessed on 11/26/12 10:26:24 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	49298.0	365.9	ug/L	3.84	365.9	ug/L	3.84	1.05%
QC value within limits for Ag 338.289 Recovery = 97.57%								
Al 308.215	28220.7	15260	ug/L	145.2	15260	ug/L	145.2	0.95%
QC value within limits for Al 308.215 Recovery = 101.71%								
As 188.979	4067.5	788.3	ug/L	0.55	788.3	ug/L	0.55	0.07%
QC value within limits for As 188.979 Recovery = 105.11%								
B	2924.5	783.6	ug/L	13.66	783.6	ug/L	13.66	1.74%
QC value within limits for B Recovery = 104.48%								
Ba 233.527	135304.5	754.1	ug/L	2.43	754.1	ug/L	2.43	0.32%
QC value within limits for Ba 233.527 Recovery = 100.55%								
Be 313.107	5033518.3	767.9	ug/L	2.99	767.9	ug/L	2.99	0.39%
QC value within limits for Be 313.107 Recovery = 102.38%								
Ca 315.887	494280.0	38010	ug/L	671.0	38010	ug/L	671.0	1.77%
QC value within limits for Ca 315.887 Recovery = 101.37%								
Cd 214.440	291570.9	787.3	ug/L	2.80	787.3	ug/L	2.80	0.36%
QC value within limits for Cd 214.440 Recovery = 104.98%								
Co 228.616	55792.0	774.3	ug/L	4.31	774.3	ug/L	4.31	0.56%
QC value within limits for Co 228.616 Recovery = 103.24%								
Cr 267.716	114244.0	771.7	ug/L	1.56	771.7	ug/L	1.56	0.20%
QC value within limits for Cr 267.716 Recovery = 102.89%								
Cu 327.393	82007.3	748.3	ug/L	3.43	748.3	ug/L	3.43	0.46%
QC value within limits for Cu 327.393 Recovery = 99.78%								
Fe 273.955	425746.8	15270	ug/L	31.0	15270	ug/L	31.0	0.20%
QC value within limits for Fe 273.955 Recovery = 101.82%								
K 766.490	62678.7	15310	ug/L	229.8	15310	ug/L	229.8	1.50%
QC value within limits for K 766.490 Recovery = 102.06%								
Mg 285.213	771434.0	37500	ug/L	588.5	37500	ug/L	588.5	1.57%
QC value within limits for Mg 285.213 Recovery = 100.00%								
Mn 257.610	45147.3	783.3	ug/L	8.54	783.3	ug/L	8.54	1.09%
QC value within limits for Mn 257.610 Recovery = 104.44%								
Mo 202.031	35239.9	758.2	ug/L	0.75	758.2	ug/L	0.75	0.10%
QC value within limits for Mo 202.031 Recovery = 101.09%								
Na 589.592	273291.9	19390	ug/L	306.9	19390	ug/L	306.9	1.58%
QC value within limits for Na 589.592 Recovery = 103.42%								
Ni 231.604	51692.3	778.8	ug/L	2.96	778.8	ug/L	2.96	0.38%
QC value within limits for Ni 231.604 Recovery = 103.84%								
P 213.617	26720.8	3823	ug/L	15.7	3823	ug/L	15.7	0.41%
QC value within limits for P 213.617 Recovery = 101.95%								
Pb 220.353	12469.3	815.8	ug/L	3.42	815.8	ug/L	3.42	0.42%
QC value within limits for Pb 220.353 Recovery = 108.77%								
Sb 206.836	5199.4	753.9	ug/L	3.67	753.9	ug/L	3.67	0.49%
QC value within limits for Sb 206.836 Recovery = 100.52%								
Se 196.026	4239.1	805.9	ug/L	4.28	805.9	ug/L	4.28	0.53%
QC value within limits for Se 196.026 Recovery = 107.45%								
Sn 189.927	6371.3	847.1	ug/L	6.77	847.1	ug/L	6.77	0.80%
QC value greater than the upper limit for Sn 189.927 Recovery = 112.94%								
Sr 421.552	869533.5	772.7	ug/L	12.89	772.7	ug/L	12.89	1.67%
QC value within limits for Sr 421.552 Recovery = 103.02%								
Ti 337.279	36877.0	753.4	ug/L	8.14	753.4	ug/L	8.14	1.08%
QC value within limits for Ti 337.279 Recovery = 100.45%								
Tl 190.801	5390.6	763.9	ug/L	4.04	763.9	ug/L	4.04	0.53%
QC value within limits for Tl 190.801 Recovery = 101.85%								
V 292.402	191188.5	777.3	ug/L	0.92	777.3	ug/L	0.92	0.12%
QC value within limits for V 292.402 Recovery = 103.64%								
Zn 206.200	71753.1	806.5	ug/L	2.89	806.5	ug/L	2.89	0.36%
QC value within limits for Zn 206.200 Recovery = 107.53%								

QC Failed. Continue with analysis.

Sequence No.: 96
Sample ID: CCB 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/21/12 6:28:07 PM
Data Type: Reprocessed on 11/26/12 10:26:25 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-73.2	-0.543	ug/L	0.7400	-0.543	ug/L	0.7400	136.28%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	51.2	27.68	ug/L	5.958	27.68	ug/L	5.958	21.52%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	0.3	0.049	ug/L	0.4026	0.049	ug/L	0.4026	813.94%
QC value within limits for As 188.979 Recovery = Not calculated								
B	48.9	12.40	ug/L	1.404	12.40	ug/L	1.404	11.33%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	46.2	0.245	ug/L	0.0217	0.245	ug/L	0.0217	8.85%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-1096.9	-0.167	ug/L	0.0187	-0.167	ug/L	0.0187	11.19%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	11.9	0.906	ug/L	2.4915	0.906	ug/L	2.4915	274.95%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	47.8	0.128	ug/L	0.0341	0.128	ug/L	0.0341	26.66%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	41.0	0.566	ug/L	0.4483	0.566	ug/L	0.4483	79.25%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-4.1	-0.028	ug/L	0.0436	-0.028	ug/L	0.0436	154.98%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	254.6	2.323	ug/L	0.2683	2.323	ug/L	0.2683	11.55%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	742.6	26.76	ug/L	2.624	26.76	ug/L	2.624	9.80%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	181.3	44.32	ug/L	36.900	44.32	ug/L	36.900	83.26%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	67.0	3.284	ug/L	1.1855	3.284	ug/L	1.1855	36.10%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	66.5	1.156	ug/L	0.1994	1.156	ug/L	0.1994	17.26%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-0.2	-0.002	ug/L	0.1919	-0.002	ug/L	0.1919	>999.9%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	166.3	11.79	ug/L	8.187	11.79	ug/L	8.187	69.42%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-32.6	-0.495	ug/L	0.2360	-0.495	ug/L	0.2360	47.71%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-28.1	-4.018	ug/L	0.4942	-4.018	ug/L	0.4942	12.30%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-1.8	-0.115	ug/L	0.9109	-0.115	ug/L	0.9109	790.70%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-0.6	-0.082	ug/L	1.4703	-0.082	ug/L	1.4703	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	19.0	3.591	ug/L	2.2434	3.591	ug/L	2.2434	62.47%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	4.7	0.626	ug/L	0.7279	0.626	ug/L	0.7279	116.28%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-2.9	-0.003	ug/L	0.0528	-0.003	ug/L	0.0528	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	54.8	1.121	ug/L	0.2083	1.121	ug/L	0.2083	18.58%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	15.8	2.234	ug/L	0.3231	2.234	ug/L	0.3231	14.46%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-29.2	-0.124	ug/L	0.0635	-0.124	ug/L	0.0635	51.10%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	85.8	0.954	ug/L	0.1826	0.954	ug/L	0.1826	19.13%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 107
Sample ID: CCV1 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/21/12 7:20:23 PM
Data Type: Reprocessed on 11/26/12 10:26:36 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	67995.0	504.7	ug/L	8.90	504.7	ug/L	8.90	1.76%
QC value within limits for Ag 338.289 Recovery = 100.93%								
Al 308.215	38142.7	20620	ug/L	109.3	20620	ug/L	109.3	0.53%
QC value within limits for Al 308.215 Recovery = 103.10%								
As 188.979	5441.1	1055	ug/L	8.8	1055	ug/L	8.8	0.84%
QC value within limits for As 188.979 Recovery = 105.45%								
B	3889.4	1042	ug/L	3.8	1042	ug/L	3.8	0.36%
QC value within limits for B Recovery = 104.19%								
Ba 233.527	180698.2	1007	ug/L	11.6	1007	ug/L	11.6	1.16%
QC value within limits for Ba 233.527 Recovery = 100.72%								
Be 313.107	6703598.9	1023	ug/L	14.2	1023	ug/L	14.2	1.39%
QC value within limits for Be 313.107 Recovery = 102.26%								
Ca 315.887	672664.9	51730	ug/L	419.0	51730	ug/L	419.0	0.81%
QC value within limits for Ca 315.887 Recovery = 103.47%								
Cd 214.440	382907.2	1034	ug/L	11.3	1034	ug/L	11.3	1.10%
QC value within limits for Cd 214.440 Recovery = 103.40%								
Co 228.616	73959.7	1026	ug/L	10.7	1026	ug/L	10.7	1.04%
QC value within limits for Co 228.616 Recovery = 102.64%								
Cr 267.716	151705.8	1025	ug/L	11.6	1025	ug/L	11.6	1.13%
QC value within limits for Cr 267.716 Recovery = 102.48%								
Cu 327.393	109178.0	996.3	ug/L	13.94	996.3	ug/L	13.94	1.40%
QC value within limits for Cu 327.393 Recovery = 99.63%								
Fe 273.955	565319.6	20280	ug/L	238.4	20280	ug/L	238.4	1.18%
QC value within limits for Fe 273.955 Recovery = 101.39%								
K 766.490	85703.0	20930	ug/L	148.0	20930	ug/L	148.0	0.71%
QC value within limits for K 766.490 Recovery = 104.67%								
Mg 285.213	1047114.3	50900	ug/L	383.4	50900	ug/L	383.4	0.75%
QC value within limits for Mg 285.213 Recovery = 101.80%								
Mn 257.610	59468.2	1032	ug/L	4.8	1032	ug/L	4.8	0.47%
QC value within limits for Mn 257.610 Recovery = 103.17%								
Mo 202.031	47809.1	1029	ug/L	11.6	1029	ug/L	11.6	1.13%
QC value within limits for Mo 202.031 Recovery = 102.86%								
Na 589.592	369334.4	26210	ug/L	234.6	26210	ug/L	234.6	0.90%
QC value within limits for Na 589.592 Recovery = 104.83%								
Ni 231.604	67762.1	1021	ug/L	12.0	1021	ug/L	12.0	1.18%
QC value within limits for Ni 231.604 Recovery = 102.08%								
P 213.617	35587.4	5092	ug/L	72.8	5092	ug/L	72.8	1.43%
QC value within limits for P 213.617 Recovery = 101.83%								
Pb 220.353	16522.7	1081	ug/L	5.2	1081	ug/L	5.2	0.48%
QC value within limits for Pb 220.353 Recovery = 108.10%								
Sb 206.836	7180.8	1041	ug/L	5.9	1041	ug/L	5.9	0.57%
QC value within limits for Sb 206.836 Recovery = 104.13%								
Se 196.026	5635.0	1071	ug/L	6.5	1071	ug/L	6.5	0.60%
QC value within limits for Se 196.026 Recovery = 107.12%								
Sn 189.927	8770.1	1166	ug/L	14.2	1166	ug/L	14.2	1.22%
QC value greater than the upper limit for Sn 189.927 Recovery = 116.60%								
Sr 421.552	1178501.0	1047	ug/L	8.9	1047	ug/L	8.9	0.85%
QC value within limits for Sr 421.552 Recovery = 104.72%								
Ti 337.279	49923.2	1020	ug/L	4.4	1020	ug/L	4.4	0.43%
QC value within limits for Ti 337.279 Recovery = 101.99%								
Tl 190.801	7252.9	1028	ug/L	4.7	1028	ug/L	4.7	0.46%
QC value within limits for Tl 190.801 Recovery = 102.78%								
V 292.402	254466.8	1035	ug/L	11.3	1035	ug/L	11.3	1.10%
QC value within limits for V 292.402 Recovery = 103.48%								
Zn 206.200	93603.3	1052	ug/L	11.2	1052	ug/L	11.2	1.07%
QC value within limits for Zn 206.200 Recovery = 105.23%								

QC Failed. Continue with analysis.

Sequence No.: 108
Sample ID: CCB 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/21/12 7:24:22 PM
Data Type: Reprocessed on 11/26/12 10:26:37 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	43.3	0.321	ug/L	0.8328	0.321	ug/L	0.8328	259.18%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	15.9	8.554	ug/L	2.2007	8.554	ug/L	2.2007	25.73%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	-0.3	-0.048	ug/L	0.3997	-0.048	ug/L	0.3997	824.25%
QC value within limits for As 188.979 Recovery = Not calculated								
B	55.5	13.99	ug/L	2.498	13.99	ug/L	2.498	17.85%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	35.4	0.198	ug/L	0.0502	0.198	ug/L	0.0502	25.37%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-946.7	-0.144	ug/L	0.0166	-0.144	ug/L	0.0166	11.47%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	23.3	1.782	ug/L	0.5585	1.782	ug/L	0.5585	31.34%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	87.5	0.237	ug/L	0.0491	0.237	ug/L	0.0491	20.75%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	25.1	0.349	ug/L	0.1209	0.349	ug/L	0.1209	34.60%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-1.8	-0.013	ug/L	0.0494	-0.013	ug/L	0.0494	371.47%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	165.7	1.512	ug/L	0.2601	1.512	ug/L	0.2601	17.20%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	35.5	1.300	ug/L	1.2089	1.300	ug/L	1.2089	92.97%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	423.5	103.5	ug/L	16.43	103.5	ug/L	16.43	15.87%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	44.1	2.140	ug/L	0.4866	2.140	ug/L	0.4866	22.75%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	27.0	0.469	ug/L	0.1004	0.469	ug/L	0.1004	21.40%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	20.9	0.449	ug/L	0.0910	0.449	ug/L	0.0910	20.26%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	870.6	61.78	ug/L	3.581	61.78	ug/L	3.581	5.80%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-28.1	-0.426	ug/L	0.2274	-0.426	ug/L	0.2274	53.38%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-9.1	-1.301	ug/L	0.8862	-1.301	ug/L	0.8862	68.12%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	10.3	0.674	ug/L	1.2508	0.674	ug/L	1.2508	185.49%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	0.8	0.110	ug/L	0.7096	0.110	ug/L	0.7096	643.05%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	15.7	2.950	ug/L	1.6882	2.950	ug/L	1.6882	57.23%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	4.5	0.598	ug/L	0.5670	0.598	ug/L	0.5670	94.74%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	74.6	0.066	ug/L	0.1500	0.066	ug/L	0.1500	225.71%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	23.0	0.469	ug/L	0.0787	0.469	ug/L	0.0787	16.78%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	20.3	2.877	ug/L	0.3701	2.877	ug/L	0.3701	12.87%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-75.7	-0.297	ug/L	0.2919	-0.297	ug/L	0.2919	98.21%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	186.9	2.083	ug/L	0.2175	2.083	ug/L	0.2175	10.44%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/21/12	11/21/12	#6010B-121121C-AY71935

Metals SC-Blank-REG MDLs
Printed: 11/26/12 11:29:36 AM

Sequence No.: 97
Sample ID: 121121C-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 116
Date Collected: 11/21/12 6:32:27 PM
Data Type: Reprocessed on 11/26/12 10:26:26 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121121C-3050-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	387.9	2.879	ug/L	0.6195	0.115	mg/kg	0.0248	21.52%
Al 308.215	33.7	18.12	ug/L	5.522	0.725	mg/kg	0.2209	30.48%
As 188.979	1.3	0.251	ug/L	1.0570	0.010	mg/kg	0.0423	421.93%
B	43.2	10.98	ug/L	1.079	0.439	mg/kg	0.0432	9.83%
Ba 233.527	34.4	0.178	ug/L	0.0427	0.007	mg/kg	0.0017	23.92%
Be 313.107	-1103.8	-0.168	ug/L	0.0049	-0.007	mg/kg	0.0002	2.92%
Ca 315.887	479.9	36.90	ug/L	0.627	1.476	mg/kg	0.0251	1.70%
Cd 214.440	152.2	0.411	ug/L	0.0385	0.016	mg/kg	0.0015	9.37%
Co 228.616	42.0	0.582	ug/L	0.0538	0.023	mg/kg	0.0022	9.24%
Cr 267.716	68.1	0.458	ug/L	0.0737	0.018	mg/kg	0.0029	16.11%
Cu 327.393	707.8	6.459	ug/L	0.2401	0.258	mg/kg	0.0096	3.72%
Fe 273.955	699.2	25.21	ug/L	1.950	1.009	mg/kg	0.0780	7.73%
K 766.490	64.1	15.64	ug/L	55.624	0.626	mg/kg	2.2250	355.68%
Mg 285.213	37.7	1.858	ug/L	0.8454	0.074	mg/kg	0.0338	45.49%
Mn 257.610	119.9	2.084	ug/L	0.0267	0.083	mg/kg	0.0011	1.28%
Mo 202.031	65.5	1.409	ug/L	0.1306	0.056	mg/kg	0.0052	9.27%
Na 589.592	160.5	11.38	ug/L	5.391	0.455	mg/kg	0.2157	47.36%
Ni 231.604	-98.4	-1.487	ug/L	0.0328	-0.059	mg/kg	0.0013	2.21%
P 213.617	18.9	2.710	ug/L	0.8468	0.108	mg/kg	0.0339	31.25%
Pb 220.353	-46.1	-3.015	ug/L	0.4562	-0.121	mg/kg	0.0182	15.13%
Sb 206.836	0.1	0.014	ug/L	0.0822	0.001	mg/kg	0.0033	596.18%
Se 196.026	31.4	5.937	ug/L	1.0559	0.237	mg/kg	0.0422	17.78%
Sn 189.927	-16.2	-2.155	ug/L	0.1274	-0.086	mg/kg	0.0051	5.91%
Sr 421.552	-36.8	-0.033	ug/L	0.0129	-0.001	mg/kg	0.0005	38.91%
Ti 337.279	95.1	1.944	ug/L	0.4173	0.078	mg/kg	0.0167	21.46%
Tl 190.801	1.5	0.217	ug/L	0.3142	0.009	mg/kg	0.0126	144.57%
V 292.402	-74.8	-0.282	ug/L	0.1947	-0.011	mg/kg	0.0078	69.10%
Zn 206.200	133.3	1.487	ug/L	0.2554	0.059	mg/kg	0.0102	17.17%

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	9.8	98.0	80-120	11/21/12	11/21/12	#6010B-121121C-AY71935

Comments: _____

Sequence No.: 98
Sample ID: 121121C-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 117
Date Collected: 11/21/12 6:36:50 PM
Data Type: Reprocessed on 11/26/12 10:26:27 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121121C-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	12260.0	90.99	ug/L	0.100	3.640	mg/kg	0.0040	0.11%
Al 308.215	3438.2	1860	ug/L	7.5	74.41	mg/kg	0.299	0.40%
As 188.979	1178.6	228.4	ug/L	1.36	9.136	mg/kg	0.0545	0.60%
B	908.8	230.8	ug/L	2.66	9.234	mg/kg	0.1064	1.15%
Ba 233.527	40339.3	226.9	ug/L	1.55	9.076	mg/kg	0.0621	0.68%
Be 313.107	302673.7	46.17	ug/L	0.363	1.847	mg/kg	0.0145	0.79%
Ca 315.887	299479.0	23030	ug/L	34.6	921.4	mg/kg	1.38	0.15%
Cd 214.440	17565.4	47.55	ug/L	0.294	1.902	mg/kg	0.0118	0.62%
Co 228.616	17325.8	240.5	ug/L	0.81	9.621	mg/kg	0.0322	0.34%
Cr 267.716	36203.3	244.4	ug/L	1.43	9.775	mg/kg	0.0570	0.58%
Cu 327.393	25123.3	229.3	ug/L	2.68	9.170	mg/kg	0.1073	1.17%
Fe 273.955	27228.2	959.8	ug/L	3.69	38.39	mg/kg	0.148	0.38%
K 766.490	17533.6	4284	ug/L	23.0	171.4	mg/kg	0.92	0.54%
Mg 285.213	449338.2	21830	ug/L	25.4	873.4	mg/kg	1.02	0.12%
Mn 257.610	14119.6	244.2	ug/L	0.37	9.769	mg/kg	0.0149	0.15%
Mo 202.031	11491.6	246.9	ug/L	1.27	9.876	mg/kg	0.0508	0.51%
Na 589.592	321880.1	22850	ug/L	3.7	914.1	mg/kg	0.15	0.02%
Ni 231.604	16057.8	241.9	ug/L	1.18	9.676	mg/kg	0.0472	0.49%
P 213.617	12513.7	1790	ug/L	9.0	71.62	mg/kg	0.362	0.50%
Pb 220.353	3763.2	246.2	ug/L	0.74	9.848	mg/kg	0.0296	0.30%
Sb 206.836	1499.2	217.4	ug/L	2.06	8.695	mg/kg	0.0825	0.95%
Se 196.026	1172.8	220.5	ug/L	1.54	8.819	mg/kg	0.0615	0.70%
Sn 189.927	2000.6	266.0	ug/L	1.93	10.64	mg/kg	0.077	0.73%
Sr 421.552	259671.3	230.7	ug/L	0.20	9.227	mg/kg	0.0080	0.09%
Ti 337.279	11466.4	234.1	ug/L	0.78	9.364	mg/kg	0.0312	0.33%
Tl 190.801	1594.4	225.9	ug/L	0.77	9.038	mg/kg	0.0308	0.34%
V 292.402	60383.0	246.5	ug/L	1.96	9.860	mg/kg	0.0782	0.79%
Zn 206.200	42851.7	480.0	ug/L	4.13	19.20	mg/kg	0.165	0.86%

Metals Standards Log Book # 36 Page # 043

Be 11/21/12

6020/6020A

(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A

Today's Date: 11/21/12
Expires: 11/28/12
Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL DI Water
Lot #L12065
20 mL HCL / 2000mL DI Water
Lot #51358
Expires 11/28/12

Internal Standard Mix: Prep 11/19/2012

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1.0% HCL 11/21/12

Standard 3 11/28/12

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	ABS STDS	012512-30926
25 uL	CCV-B	ABS STDS	021312-30928
25 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1.0% HCL 11/21/12

Intermediate-Sb 11/28/12
100 uL of Sb STD (CPI 12A011-30298) in 10 mL of 1% HNO3/1.0% HCL
ICV-Sb 11/28/12
100 uL of Intermediate-Sb in 10 mL of 1% HNO3/1.0% HCL

Be 11/21/12

Standard 2 11/28/12

Amount	STD	
500 uL	Standard 4	11/21/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/21/12

Standard 1 11/28/12

Amount	STD	
50 uL	Standard 4	11/21/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/21/12

ICP-MS ICV 11/28/12

Amount	STD		
50 uL	QCS ICV A	CPI	11C184-30611
50 uL	QCS ICV B	CPI	11C184-30612

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/21/12

ICSA Prep: 11/28/12

1 mL	ICSA	CPI	12I082-31307

Prepared in 5 mL of 1% HNO3/1.0% HCL 11/21/12

ICSAB Prep: 11/28/12

1mL	ICSA	CPI	12I082-31307
0.025mL	INT	O2Si	1032370-30265

Prepared in 5 mL of 1% HNO3/1.0% HCL 11/21/12

ICP-LDR 11/28/12

Amount	STD		
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 10 mL of 1% HNO3/1.0% HCL 11/21/12

11-21-12
EA 11-20-12
EA 11-21-12

6010B-C

(A)

1%HNO3 / 5%HCl BLK					6010B/6010C ICSA				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
100 mL	HCL	EMD	UN1789-265	10/22/12	1mL	Al	CPI	11J015-30092	05/28/13
20 mL	HNO3	JT BAKER	L10023-266	10/24/12	1mL	Ca	CPI	11J031-29989	05/14/13
Prepared in 2000 ml DI Water					1mL	Mg	CPI	11K178-30093	05/28/13
STD 1 / LDL 6010B/6010C					1mL	Fe	O2SI	1030787-30616	05/17/13
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	Prepared in 50 ml 1%HNO3/5%HCl				
0.5 mL	6010 LDL	O2SI	1039165-31300	10/01/13	6010B/6010C ICSAB				
Prepared in 50 ml 1%HNO3/5%HCl					1mL	Al	CPI	11J015-30092	05/28/13
STD 3 / HDL 6010B/6010C					1mL	Ca	CPI	11J031-29989	05/14/13
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15	1mL	Mg	CPI	11K178-30093	05/28/13
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15	1mL	Fe	O2SI	1030787-30616	05/17/13
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15	0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 100 ml 1%HNO3 / 5%HCl					Prepared in 50 ml 1%HNO3/5%HCl				
STD 2 / CCV1 6010B/6010C/6010C					6010B/6010C ICV				
AMOUNT	STD	PREP DATE	EXP DATE		0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
25mL	STD 3	Today	1 week		0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
25mL	1%HNO3/5%HCl	Today	1 week		Prepared in 50ml 1%HNO3/5%HCl				
CCV2 6010B/6010C									
AMOUNT	STD	PREP DATE	EXP DATE						
15mL	STD 3	Today	1 week						
25mL	1%HNO3/5%HCl	Today	1 week						

EA 11-20-12 11-21-12
EA 11-21-12

NM 11/26/12

TCLP FLUID#1	Lot # NM 11/26/12	DATE:	11/26/12
Glacial Acetic Acid		EXP:	11/26/13
NaOH	RMD #B04849O4-020-2699	PREP BY:	NM

Procedure: Add 114mL of Glacial acetic acid to 18L of DI H2O. Add 1286mL of 1N NaOH. Bring up to 20L volume with DI H2O. When correctly prepared, the pH is 4.93 ± 0.05. If the pH is not within the range you must re-prepare the fluid.

*LO 11-21-12

*EA book Edit for LO 11-21-12 EA 11-26-12

Hg WORKING STANDARD 7470A/7471/245.1

1ml X 10ug/ml Hg STOCK STD. (11/13/12LO)/200ml 1% HNO3 Lot#L12065
1ml X 10ug/ml Hg STOCK ICV (11/13/12LO)/200ml 1% HNO3 Lot#L12065
Final concentration is 50 ug/L. Expires.....11-21-12..... EA 11-26-12

_M3050

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121121C **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 1039704-31514		
Spiked ID 2	LCSW LOT# 1039705-31515		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	11/21/12 2:00:00 PM
Witnessed By	LO	Date:	11/21/12 2:00:00 PM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	11/21/12 16:30

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121121C Blk				2.50g	100mL	11/21/12 14:00	equip: Modblock4
2	121121C LCS		1mL	1+2	2.50g	100mL	11/21/12 14:00	equip: Modblock4
3	AY71799	AY71799M01			2.56g	100mL	11/21/12 14:00	equip: Modblock4
4	AY71802	AY71802M01			2.58g	100mL	11/21/12 14:00	equip: Modblock4
5	AY71805	AY71805M01			2.47g	100mL	11/21/12 14:00	equip: Modblock4
6	AY71932	AY71932M01			2.58g	100mL	11/21/12 14:00	equip: Modblock4
7	AY71935	AY71935M01			2.53g	100mL	11/21/12 14:00	equip: Modblock4
8	AY71935 MS	AY71935M01	2mL	1+2	2.53g	100mL	11/21/12 14:00	equip: Modblock4
9	AY71935 MSD	AY71935M01	2mL	1+2	2.53g	100mL	11/21/12 14:00	equip: Modblock4

Solvent and Lot#
1:1 HNO3 11-9-12
HNO3 J.T.B. L10023 0276
H2O2 J.T.B K20J00 0254
HCL EMD Lot# 4112030 0277

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	BA
Date	11-21-12
Time	16:30
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	11/21/12 2:29:48 PM

Reviewed By: BA **Date:** 11-21-12

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	21 Nov 2012	11:42	CalBlk 121121EA I:PB O:EA		121121B6010	1.
2	21 Nov 2012	11:46	STD 1 121121EA I:PB O:EA		121121B6010	1.
3	21 Nov 2012	11:50	STD 2 121121EA I:PB O:EA		121121B6010	1.
4	21 Nov 2012	11:53	STD 3 121121EA I:PB O:EA		121121B6010	1.
5	21 Nov 2012	11:56	ICV 121121EA I:PB O:EA		121121B6010	1.
6	21 Nov 2012	12:04	ICB 121121EA I:PB O:EA		121121B6010	1.
8	21 Nov 2012	12:12	ICSA 121121EA I:PB O:EA		121121B6010	1.
9	21 Nov 2012	12:16	ICSAB 121121EA I:PB O:EA		121121B6010	1.
10	21 Nov 2012	12:21	CCV1 121121EA I:PB O:EA		121121B6010	1.
11	21 Nov 2012	12:24	CCB 121121EA I:PB O:EA		121121B6010	1.
95	21 Nov 2012	18:24	CCV2 121121EA I:PB O:EA		121121B6010	1.
96	21 Nov 2012	18:28	CCB 121121EA I:PB O:EA		121121B6010	1.
97	21 Nov 2012	18:32	121121C-3050-BLK		121121B6010	1.
98	21 Nov 2012	18:36	121121C-3050-LCS		121121B6010	1.
99	21 Nov 2012	18:41	AY71799M01		121121B6010	1.
100	21 Nov 2012	18:46	AY71802M01		121121B6010	1.
101	21 Nov 2012	18:51	AY71805M01		121121B6010	1.
107	21 Nov 2012	19:20	CCV1 121121EA I:PB O:EA		121121B6010	1.
108	21 Nov 2012	19:24	CCB 121121EA I:PB O:EA		121121B6010	1.

Wetlab Results

ARF: 69287

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
APPL ID: AY71799	-Client Sample ID: GT12022M		-Sample Collection Date: 11/09/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	74.9	2.0	%	11/26/12	11/27/12
APPL ID: AY71802	-Client Sample ID: GT12023M		-Sample Collection Date: 11/12/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	77.6	2.0	%	11/26/12	11/27/12
APPL ID: AY71805	-Client Sample ID: GT12024M		-Sample Collection Date: 11/12/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	76.0	2.0	%	11/26/12	11/27/12

Printed: 11/30/12 8:49:07 AM

WETLAB

Sample/Sample Duplicate Results

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Project: 748350.02000 CSSA

Sample ID: AY71805
Client ID: GT12024M

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

ARF: 69287

Method	Analyte	Sample ID	Sample Result	Sample Dup Result	RPD	RPD Max	PQL	Units	Sample Extract Date	Sample Analysis Date	Sample Dup Extract Date	Sample Dup Analysis Date
CLP MOIS	MOISTURE	AY71805	76.0	76.5	0.7	20	2.0	%	11/26/12	11/27/12	11/26/12	11/27/12

% Moisture

Batch: QCG 121126-M004558

Method: CLP 4.0

Date: 11/26/12 15:01

Sample	Container	Pan (g)	Pan+Wet (g)	Pan+Dry 1 (g)	Pan+Dry 2 (g)	Moisture (%)	Comments
AY71805D		0.8368	7.3616	2.3708	2.3709	76.488	
		11/26/12 15:01	11/26/12 15:02	11/27/12 10:18	11/27/12 10:19		
AY71805		0.8346	7.0437	2.3272	2.3270	75.964	
		11/26/12 15:00	11/26/12 15:01	11/27/12 10:18	11/27/12 10:18		
AY71802		0.8353	8.9969	2.6673	2.6675	77.551	
		11/26/12 14:58	11/26/12 14:59	11/27/12 10:18	11/27/12 10:18		
AY71799		0.8302	8.3413	2.7126	2.7128	74.936	
		11/26/12 14:57	11/26/12 14:57	11/27/12 10:18	11/27/12 10:18		

Date/Time InOven@104°C	Date/Time OutOven@104°C	Date/Time InOven@104°C	Date/Time OutOven@104°C
11/26/12 3:02:00 PM			11/27/12 10:18:00 AM

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
11/21/12	AP	Mettler AT200	0.5g	0.5000g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0002 g	0.9990	1.0010	
		Mettler AT200	20g	20.0004g	19.9800	20.0200	
		Mettler AT200	50g	50.0009g	49.9500	50.0500	
		Mettler AT200	100g	100.0017g	99.9000	100.1000	
		Mettler AT200	150g	150.0024g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	999.99 g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.99 g	1960.00	2040.00	
11/26/12	AP	Mettler AT200	0.5g	0.4999 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0002 g	0.9990	1.0010	
		Mettler AT200	20g	20.0006 g	19.9800	20.0200	
		Mettler AT200	50g	50.0010g	49.9500	50.0500	
		Mettler AT200	100g	100.0018g	99.9000	100.1000	
		Mettler AT200	150g	150.0028g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.98 g	1960.00	2040.00	
11/27/12	BB						Yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0003 g	19.9800	20.0200	
		Mettler AT200	50g	50.0007 g	49.9500	50.0500	
		Mettler AT200	100g	100.0015 g	99.9000	100.1000	
		Mettler AT200	150g	150.0024 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.01 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.01 g	1960.00	2040.00	
11/28/12	AP	Mettler AT200	0.5g	0.5000g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0000g	0.9990	1.0010	
		Mettler AT200	20g	20.0003g	19.9800	20.0200	
		Mettler AT200	50g	50.0007g	49.9500	50.0500	
		Mettler AT200	100g	100.0012g	99.9000	100.1000	
		Mettler AT200	150g	150.0019g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00g	1960.00	2040.00	

Laboratory Report

Parsons

Project #: 748350.02000 CSSA

ARF: 69288

Samples collected: November 9 and 12, 2012

APPL, Inc.

Data Validatable Package

for

Project #: 748350.02000 CSSA

ARF 69288

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Raw Data	70

CASE NARRATIVE

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

EPA Method 6010B

Metals

Case Narrative

ARF: 69288

Project: 748350.02000 CSSA

California State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Texas Certificate Number: T104704242-10-3

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

The samples were received November 15, 2012, at 1.0°C. The samples were assigned Analytical Request Form (ARF) number 69288. The sample numbers and requested analyses were compared to the chains of custody. No exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
GT12022B	AY71797	MISC	11/09/12	11/15/12
GT12022L	AY71798	MISC	11/09/12	11/15/12
GT12023B	AY71800	MISC	11/12/12	11/15/12
GT12023L	AY71801	MISC	11/12/12	11/15/12
GT12024B	AY71803	MISC	11/12/12	11/15/12
GT12024L	AY71804	MISC	11/12/12	11/15/12

Percent moisture was determined using CLP 4.0 for the liver samples. Percent moisture was not determined on the bone samples.

Digestion Information:

The liver samples were frozen and homogenized according to APPL's SOP PRE003. The bone samples were dried in the oven at 104°C; once dried, a drill was used to "shave" the bone and obtain a representative sample. For samples GT12022B, GT12023B and GT12024B, less than 2.5grams was digested because of the difficulty in shaving the bones. An aliquot of the homogenized liver sample and bone was digested according to EPA method 3050B. Since the laboratory was unable to obtain a similar clean matrix, the blank and the LCS were digested according to APPL's SOP PRE3050B. No other exception was encountered. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed according to EPA method 6010B using a Perkin Elmer Optima 5300DV ICP.

Calibrations:

Calibrations were performed according to the method for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard. In the CCV on 11/28/12 at 19:25, lead recovered above the 110% upper control limit at 112%. Lead was not detected in the bracketed samples. All other calibration acceptance criteria were met.

Blanks:

No target metal was detected above the reporting limit (RL) in the method blanks.

Spikes:

Laboratory Control Spikes (LCS), post-digestion spike (PDS), and dilution test (DT) were used for quality assurance. All LCS acceptance criteria were met.

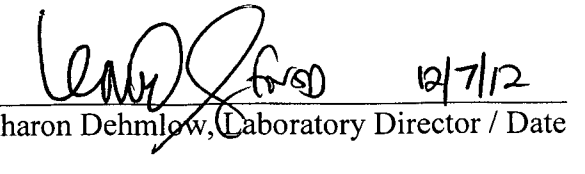
Samples GT12029L (APPL SDG #69340) and GT12032M (APPL report #69413) were selected by the laboratory as the QC samples for analytical batches 121128B and 121205A, respectively. All dilution test and PDS recoveries are reported in APPL report #69340 and 69413.

Summary:

No other analytical exception is noted.

CERTIFICATION

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. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.



12/7/12

Sharon Dehmlow, Laboratory Director / Date

Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other - explain
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel.
Y	Percent difference between primary and confirmation column > 40%

CHAIN OF CUSTODY
AND ARF

APPL - Analysis Request Form 69288

Client: **Parsons**
Address: **8000 Centre Park Drive Ste 200**
Austin, TX 78754
Attn: **Tammy Chang**
Phone: **512-719-6092** Fax: **512-719-6099**
Job: **748350.02000 CSSA**
PO #: **748350.30002 (prime *G012)**
Chain of Custody (Y/N): **Y** # **111312APPFA**
RAD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **STD**

Received by: **CM**
Date Received: **11/15/12** Time: **11:45**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-6**
Chest Temp(s): **1.0°**
Color: **A_FREZ**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Diane Anderson** *mp*
QC Report Type: **DVP4/AFCEE/ERPIMS/TX**
Due Date: **12/06/12**

Comments:

pdf ARF to Tammy & Pam; send 1 DVP3 HC & send DVP3 & DVP4 on CD to Tammy.

Case Narrative. CSSA QAPP. Only report MS/MSD when requested.
Report results on APPL forms: U to the RL; report results in wet weight (without moisture correction)
Wait to do moisture analysis after metals analysis.
EDD: ERPIMS 4 Lab PC4 checked TXF to Pam.Ford@parsons.com

DD 12.5.12

11-16 Sent ARF

Sample Distribution:
Metals: 6-$6010BDODS(Pb)
Wetlab: 6-MOIST
Other: 6-_M3050

Charges:

Invoice To:
8000 Centre Park Drive Ste 200
Austin, TX 78754-5140
Attn: Ellen Felfe

	Client ID	APPL ID	Sampled	Analyses Requested
1.	GT12022B	AY71797M	11/09/12 17:30	$6010BDODS(Pb), MOIST
2.	GT12022L	AY71798M	11/09/12 17:30	$6010BDODS(Pb), MOIST
3.	GT12023B	AY71800M	11/12/12 17:00	$6010BDODS(Pb), MOIST
4.	GT12023L	AY71801M	11/12/12 17:00	$6010BDODS(Pb), MOIST
5.	GT12024B	AY71803M	11/12/12 17:00	$6010BDODS(Pb), MOIST
6.	GT12024L	AY71804M	11/12/12 17:00	$6010BDODS(Pb), MOIST

Note: All times, excluding sample collection times, are Pacific Time Zone unless noted otherwise. Collection times are in: -6 UTC

APPL Sample Receipt Form

ARF# **69288**

Sample	Container Type	Count	pH
AY71797	35 Plastic Bag	1	na
AY71798	35 Plastic Bag	1	na
AY71800	35 Plastic Bag	1	na
AY71801	35 Plastic Bag	1	na
AY71803	35 Plastic Bag	1	na
AY71804	35 Plastic Bag	1	na

Sample	Container Type	Count	pH

69288

1.0°C

Camp Stanley Storage Activity Chain Of Custody

COC ID:	111312APPFA	Relinquish_Date:	11/13/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	EN	LabCode:	APPF
Job Number:	748350.02000	Relinquish_Time:	1:00 PM	Carrier:	FedEx
Creation Date:	11/13/2012	Collection Team:	SE	Airbill Carrier:	876436444215
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): Sam Elliott

Sam Elliott

LOCID	LOGDATE	LOGTIME	SACODE	SMCODE	MATRIX	FLDSAMPID	Containers	Analysis Required
GT12022B	11/9/2012	17:30	N	G	TA	GT12022B_110912_N1730	1	SW6010B LEAD
GT12022L	11/9/2012	17:30	N	G	TA	GT12022L_110912_N1730	1	SW6010B LEAD
GT12022M	11/9/2012	17:30	N	G	TA	GT12022M_110912_N1730	1	SW6010B LEAD
GT12023B	11/12/2012	17:00	N	G	TA	GT12023B_111212_N1700	1	SW6010B LEAD
GT12023L	11/12/2012	17:00	N	G	TA	GT12023L_111212_N1700	1	SW6010B LEAD
GT12023M	11/12/2012	17:00	N	G	TA	GT12023M_111212_N1700	1	SW6010B LEAD
GT12024B	11/12/2012	17:00	N	G	TA	GT12024B_111212_N1700	1	SW6010B LEAD
GT12024L	11/12/2012	17:00	N	G	TA	GT12024L_111212_N1700	1	SW6010B LEAD

Relinquished by: S. Elliott Date 11/13/12 Time 1300

Recieved by: Yang Yo Date 11/15/12 Time 11:45

Relinquished by: _____ Date _____ Time _____

Recieved by: _____ Date _____ Time _____

Relinquished by: _____ Date _____ Time _____

Recieved by: _____ Date _____ Time _____

Camp Stanley Storage Activity Chain Of Custody

COC ID:	111312APPFA	Relinquish_Date:	11/13/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	EN	LabCode:	APPF
Job Number:	748350.02000	Relinquish_Time:	1:00 PM	Carrier:	FedEx
Creation Date:	11/13/2012	Collection Team:	SE	Airbill Carrier:	876436444215
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): Sam Elliott

Sam Elliott

LOCID: **GT12024M** LOGDATE: **11/12/2012** MATRIX: **TA** TBLOT:

SBD: **0** LOGTIME: **17:00** SACODE: **N** SMCODE: **G** ABLOT:

SED: **0** FLDSAMPID **GT12024M_111212_N1700** EBLOT:

Containers: 1

Remarks:

Analysis Required:

SW6010B LEAD

Relinquished by: S. Elliott Date 11/13/12 Time 1300

Recieved by: Young Jin Date 11/15/12 Time 11:45

Relinquished by:_____ Date_____ Time____

Recieved by:_____ Date_____ Time____

Relinquished by:_____ Date_____ Time____

Recieved by:_____ Date_____ Time____

COOLER RECEIPT FORM

1) Project: 748350.02000 CSSA Date Received: 11/15/12

2) Coolers: Number of Coolers: 1

3) YES NO Were coolers and samples screened for radioactivity?

4) YES NO Were custody seals on outside of cooler? How many? 1 Date on seal? 11/13/12

5) Name on seal? See label

6) YES NO NA Were custody seals unbroken and intact at the time of arrival?

7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex

8) Shipping slip numbers: 1) 8764 3644 4215 2) 3)

9) YES NO NA Was the shipping slip scanned into the database?

10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Ziploc in wet ice

12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?

13) YES NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: 139267 Correction factor: 0

15) Cooler temp(s): 1) 1.0 2) 3) 4) 5) 6) 7) 8)

Chain of custody:

16) YES NO Was a chain of custody received?

17) YES NO Were the custody papers signed in the appropriate places?

18) YES NO Was the project identifiable from custody papers?

19) YES NO Did the chain of custody include date and time of sampling?

20) YES NO Is location where sample was taken listed on the chain of custody?

CUSTODY SEAL

Signature

Date & Time Collected 11/13/12

Sample Labels:

21) YES NO Were container labels in good condition?

22) YES NO Was the client ID on the label?

23) YES NO Was the date of sampling on the label?

24) YES NO Was the time of sampling on the label?

25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?

27) YES NO Did all containers arrive unbroken?

28) YES NO Was there any leakage from samples?

29) YES NO Were any of the lids cracked or broken?

30) YES NO Were correct containers used for the tests indicated?

31) YES NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea:

Smaller than a pea:

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO NA Unpreserved VOA Vials received?

38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

Lab notified if pH was not adequate:

Deficiencies:

Signature of personnel receiving samples: Second reviewer: Yang Lu

Signature of project manager notified: Date and Time of notification:

Name of client notified: Date and Time of notification:

Information given to client:

by whom (Initials):

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/05/12	12/05/12	#6010B-121205A-AY72370
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/28/12	11/28/12	#6010B-121128B-AY72102

Metals SC-Blank-REG MDLs
Printed: 12/07/12 8:32:28 AM

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	11.1	111	80-120	11/28/12	11/28/12	#6010B-121128B-AY72102

Comments: _____

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.3	103	80-120	12/05/12	12/05/12	#6010B-121205A-AY72370

Comments: _____

METALS
Sample Data

APPL, INC.

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12022B
Sample Collection Date: 11/09/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69288
APPL ID: AY71797

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	12/05/12	12/05/12

Printed: 12/07/12 1:20:25 PM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 62
Sample ID: AY71797M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 1.93 g
Dilution:

Autosampler Location: 136
Date Collected: 12/05/12 2:27:39 PM
Data Type: Reprocessed on 12/06/12 10:13:23 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71797M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	661.9	5.096	ug/L	1.1404	0.264	mg/kg	0.0591	22.38%
Al 308.215	361.5	147.1	ug/L	9.46	7.624	mg/kg	0.4904	6.43%
As 188.979	161.8	29.02	ug/L	2.907	1.504	mg/kg	0.1506	10.02%
B	269.2	-5.406	ug/L	1.7228	-0.280	mg/kg	0.0893	31.87%
Ba 233.527	199348.4	1153	ug/L	10.7	59.74	mg/kg	0.556	0.93%
Be 313.107	-5363.3	-0.802	ug/L	0.0017	-0.042	mg/kg	0.0001	0.21%
Ca 315.887	37201159.7	3007000	ug/L	17592.1	155800	mg/kg	911.5	0.59%
Cd 214.440	185.5	-5.948	ug/L	0.1481	-0.308	mg/kg	0.0077	2.49%
Co 228.616	376.7	-4.878	ug/L	0.4476	-0.253	mg/kg	0.0232	9.18%
Cr 267.716	12549.9	74.20	ug/L	0.874	3.844	mg/kg	0.0453	1.18%
Cu 327.393	17008.1	134.5	ug/L	0.86	6.970	mg/kg	0.0446	0.64%
Fe 273.955	27551.5	930.4	ug/L	7.09	48.21	mg/kg	0.367	0.76%
K 766.490	10103.3	3543	ug/L	99.1	183.6	mg/kg	5.14	2.80%
Mg 285.213	1124681.5	58310	ug/L	119.6	3021	mg/kg	6.2	0.21%
Mn 257.610	1214.5	7.846	ug/L	0.2118	0.407	mg/kg	0.0110	2.70%
Mo 202.031	132.0	-12.21	ug/L	0.106	-0.633	mg/kg	0.0055	0.87%
Na 589.592	1248927.3	97690	ug/L	228.0	5062	mg/kg	11.8	0.23%
Ni 231.604	1749.8	24.33	ug/L	0.526	1.260	mg/kg	0.0272	2.16%
P 213.617	9266929.8	1212000	ug/L	6276.4	62810	mg/kg	325.2	0.52%
Pb 220.353	77.5	4.728	ug/L	0.6998	0.245	mg/kg	0.0363	14.80%
Sb 206.836	14.7	2.286	ug/L	1.4924	0.118	mg/kg	0.0773	65.29%
Se 196.026	-1.1	-44.98	ug/L	4.005	-2.330	mg/kg	0.2075	8.90%
Sn 189.927	125.6	14.66	ug/L	0.637	0.760	mg/kg	0.0330	4.34%
Sr 421.552	1314275.9	1350	ug/L	3.0	69.94	mg/kg	0.155	0.22%
Ti 337.279	4724.1	107.5	ug/L	0.50	5.569	mg/kg	0.0258	0.46%
Tl 190.801	-18.5	-2.628	ug/L	0.5708	-0.136	mg/kg	0.0296	21.72%
V 292.402	1158.8	2.955	ug/L	0.2096	0.153	mg/kg	0.0109	7.09%
Zn 206.200	114136.6	1136	ug/L	12.4	58.85	mg/kg	0.645	1.10%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12022L
Sample Collection Date: 11/09/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69288
APPL ID: AY71798

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/28/12	11/28/12

Printed: 12/07/12 8:32:29 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 36
Sample ID: AY71798M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.44 g
Dilution:

Autosampler Location: 44
Date Collected: 11/28/12 6:51:08 PM
Data Type: Reprocessed on 11/29/12 2:04:37 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71798M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-20.0	-0.179	ug/L	0.9246	-0.007	mg/kg	0.0379	515.48%
Al 308.215	22.0	15.70	ug/L	9.806	0.643	mg/kg	0.4019	62.48%
As 188.979	16.4	3.977	ug/L	1.3037	0.163	mg/kg	0.0534	32.78%
B	21.2	17.99	ug/L	0.775	0.737	mg/kg	0.0318	4.31%
Ba 233.527	1282.0	6.972	ug/L	0.0594	0.286	mg/kg	0.0024	0.85%
Be 313.107	-327.8	-0.062	ug/L	0.0175	-0.003	mg/kg	0.0007	28.31%
Ca 315.887	18392.7	1819	ug/L	10.0	74.55	mg/kg	0.409	0.55%
Cd 214.440	1363.0	4.307	ug/L	0.0101	0.177	mg/kg	0.0004	0.24%
Co 228.616	99.2	1.550	ug/L	0.1386	0.064	mg/kg	0.0057	8.94%
Cr 267.716	499.5	3.922	ug/L	0.1877	0.161	mg/kg	0.0077	4.79%
Cu 327.393	154485.4	1719	ug/L	8.5	70.45	mg/kg	0.350	0.50%
Fe 273.955	73431.6	3190	ug/L	16.3	130.7	mg/kg	0.67	0.51%
K 766.490	123569.5	68540	ug/L	605.9	2809	mg/kg	24.8	0.88%
Mg 285.213	69706.3	4433	ug/L	33.4	181.7	mg/kg	1.37	0.75%
Mn 257.610	1433.3	32.80	ug/L	0.135	1.344	mg/kg	0.0055	0.41%
Mo 202.031	87.7	2.627	ug/L	0.3777	0.108	mg/kg	0.0155	14.38%
Na 589.592	140868.0	13330	ug/L	145.4	546.2	mg/kg	5.96	1.09%
Ni 231.604	-22.7	-0.479	ug/L	0.4457	-0.020	mg/kg	0.0183	93.12%
P 213.617	477780.0	86530	ug/L	630.4	3546	mg/kg	25.8	0.73%
Pb 220.353	-33.9	-2.586	ug/L	0.6699	-0.106	mg/kg	0.0275	25.90%
Sb 206.836	19.4	3.724	ug/L	1.3523	0.153	mg/kg	0.0554	36.31%
Se 196.026	187.6	45.11	ug/L	0.798	1.849	mg/kg	0.0327	1.77%
Sn 189.927	-55.5	-8.313	ug/L	0.4857	-0.341	mg/kg	0.0199	5.84%
Sr 421.552	1460.8	1.897	ug/L	0.0553	0.078	mg/kg	0.0023	2.92%
Ti 337.279	112.7	2.812	ug/L	0.8356	0.115	mg/kg	0.0342	29.72%
Tl 190.801	-1.0	-0.168	ug/L	0.4258	-0.007	mg/kg	0.0174	253.68%
V 292.402	-1.6	-0.714	ug/L	0.2875	-0.029	mg/kg	0.0118	40.27%
Zn 206.200	35069.0	465.2	ug/L	2.90	19.07	mg/kg	0.119	0.62%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12023B
Sample Collection Date: 11/12/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69288
APPL ID: AY71800

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	2.2	0.50	mg/kg	1	12/05/12	12/05/12

Printed: 12/07/12 8:32:29 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 63
Sample ID: AY71800M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 1.62 g
Dilution:

Autosampler Location: 137
Date Collected: 12/05/12 2:33:22 PM
Data Type: Reprocessed on 12/06/12 10:13:24 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71800M01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	351.9	2.709	ug/L	0.5055	0.167	mg/kg	0.0312	18.66%
Al 308.215	120.9	35.65	ug/L	18.552	2.201	mg/kg	1.1452	52.04%
As 188.979	94.0	16.86	ug/L	0.509	1.041	mg/kg	0.0314	3.02%
B	135.2	-5.704	ug/L	1.0977	-0.352	mg/kg	0.0678	19.24%
Ba 233.527	71765.4	414.6	ug/L	2.51	25.59	mg/kg	0.155	0.61%
Be 313.107	-3757.6	-0.562	ug/L	0.0118	-0.035	mg/kg	0.0007	2.10%
Ca 315.887	19835853.3	1603000	ug/L	18108.0	98970	mg/kg	1117.8	1.13%
Cd 214.440	34.9	-3.337	ug/L	0.0999	-0.206	mg/kg	0.0062	2.99%
Co 228.616	131.9	-3.423	ug/L	0.1759	-0.211	mg/kg	0.0109	5.14%
Cr 267.716	4508.9	25.33	ug/L	0.082	1.563	mg/kg	0.0051	0.32%
Cu 327.393	-103.7	-0.820	ug/L	1.3328	-0.051	mg/kg	0.0823	162.58%
Fe 273.955	6858.6	210.7	ug/L	0.04	13.01	mg/kg	0.002	0.02%
K 766.490	18808.5	8128	ug/L	9.3	501.8	mg/kg	0.58	0.11%
Mg 285.213	550317.8	28530	ug/L	247.0	1761	mg/kg	15.2	0.87%
Mn 257.610	517.7	1.828	ug/L	0.1582	0.113	mg/kg	0.0098	8.66%
Mo 202.031	-24.2	-8.586	ug/L	0.0432	-0.530	mg/kg	0.0027	0.50%
Na 589.592	822255.3	64360	ug/L	418.2	3973	mg/kg	25.8	0.65%
Ni 231.604	1030.2	14.36	ug/L	0.231	0.886	mg/kg	0.0143	1.61%
P 213.617	5275953.7	690100	ug/L	1822.1	42600	mg/kg	112.5	0.26%
Pb 220.353	588.6	35.89	ug/L	1.003	2.215	mg/kg	0.0619	2.79%
Sb 206.836	-0.8	-0.121	ug/L	0.5517	-0.007	mg/kg	0.0341	454.85%
Se 196.026	70.5	-12.11	ug/L	1.028	-0.747	mg/kg	0.0634	8.49%
Sn 189.927	-9.9	-1.150	ug/L	0.9818	-0.071	mg/kg	0.0606	85.39%
Sr 421.552	296628.5	298.3	ug/L	2.25	18.42	mg/kg	0.139	0.75%
Ti 337.279	369.1	5.297	ug/L	0.3335	0.327	mg/kg	0.0206	6.30%
Tl 190.801	-9.1	-1.293	ug/L	0.5579	-0.080	mg/kg	0.0344	43.15%
V 292.402	132.8	-0.445	ug/L	0.0883	-0.027	mg/kg	0.0054	19.82%
Zn 206.200	53822.6	536.0	ug/L	2.66	33.08	mg/kg	0.164	0.50%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12023L
Sample Collection Date: 11/12/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69288
APPL ID: AY71801

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/28/12	11/28/12

Printed: 12/07/12 8:32:29 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 37
Sample ID: AY71801M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 45
Date Collected: 11/28/12 6:56:30 PM
Data Type: Reprocessed on 11/29/12 2:04:38 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71801M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-219.6	-1.972	ug/L	1.0153	-0.079	mg/kg	0.0406	51.49%
Al 308.215	34.7	25.27	ug/L	1.431	1.011	mg/kg	0.0572	5.66%
As 188.979	11.0	2.681	ug/L	0.5961	0.107	mg/kg	0.0238	22.24%
B	-61.1	18.07	ug/L	2.470	0.723	mg/kg	0.0988	13.67%
Ba 233.527	1328.3	2.405	ug/L	0.1802	0.096	mg/kg	0.0072	7.49%
Be 313.107	-265.6	-0.050	ug/L	0.0117	-0.002	mg/kg	0.0005	23.37%
Ca 315.887	21410.8	2115	ug/L	11.1	84.62	mg/kg	0.444	0.53%
Cd 214.440	354.2	0.407	ug/L	0.0587	0.016	mg/kg	0.0023	14.41%
Co 228.616	44.5	0.399	ug/L	0.0788	0.016	mg/kg	0.0032	19.78%
Cr 267.716	399.9	3.321	ug/L	0.1144	0.133	mg/kg	0.0046	3.45%
Cu 327.393	1791.6	19.93	ug/L	0.495	0.797	mg/kg	0.0198	2.49%
Fe 273.955	267200.8	11610	ug/L	107.8	464.5	mg/kg	4.31	0.93%
K 766.490	192071.3	106500	ug/L	785.3	4261	mg/kg	31.4	0.74%
Mg 285.213	75524.3	4812	ug/L	48.9	192.5	mg/kg	1.96	1.02%
Mn 257.610	344.0	8.206	ug/L	0.1563	0.328	mg/kg	0.0063	1.91%
Mo 202.031	29.8	1.892	ug/L	0.4056	0.076	mg/kg	0.0162	21.44%
Na 589.592	163804.9	15490	ug/L	171.1	619.4	mg/kg	6.84	1.10%
Ni 231.604	12.7	0.115	ug/L	0.1694	0.005	mg/kg	0.0068	146.81%
P 213.617	389962.9	70620	ug/L	578.9	2825	mg/kg	23.2	0.82%
Pb 220.353	19.4	1.476	ug/L	0.5653	0.059	mg/kg	0.0226	38.29%
Sb 206.836	12.7	2.440	ug/L	0.6322	0.098	mg/kg	0.0253	25.92%
Se 196.026	60.6	18.86	ug/L	2.803	0.754	mg/kg	0.1121	14.87%
Sn 189.927	-47.2	-7.072	ug/L	1.2850	-0.283	mg/kg	0.0514	18.17%
Sr 421.552	1011.0	1.421	ug/L	0.1294	0.057	mg/kg	0.0052	9.11%
Ti 337.279	61.9	1.202	ug/L	0.3497	0.048	mg/kg	0.0140	29.09%
Tl 190.801	-2.8	-0.487	ug/L	0.6331	-0.019	mg/kg	0.0253	130.07%
V 292.402	461.1	-0.668	ug/L	0.2029	-0.027	mg/kg	0.0081	30.38%
Zn 206.200	57139.9	757.1	ug/L	7.48	30.28	mg/kg	0.299	0.99%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12024B
Sample Collection Date: 11/12/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69288
APPL ID: AY71803

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	12/05/12	12/05/12

Printed: 12/07/12 1:20:25 PM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 64
Sample ID: AY71803M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 1.42 g
Dilution:

Autosampler Location: 138
Date Collected: 12/05/12 2:39:03 PM
Data Type: Reprocessed on 12/06/12 10:13:25 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71803M01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	268.3	2.066	ug/L	0.2997	0.145	mg/kg	0.0211	14.51%
Al 308.215	35.3	-13.44	ug/L	2.559	-0.947	mg/kg	0.1802	19.04%
As 188.979	82.5	14.80	ug/L	1.503	1.042	mg/kg	0.1058	10.16%
B	114.5	-8.014	ug/L	0.4153	-0.564	mg/kg	0.0292	5.18%
Ba 233.527	101972.2	589.9	ug/L	5.46	41.54	mg/kg	0.384	0.92%
Be 313.107	-3652.8	-0.546	ug/L	0.0093	-0.038	mg/kg	0.0007	1.71%
Ca 315.887	18706626.4	1512000	ug/L	13560.9	106500	mg/kg	955.0	0.90%
Cd 214.440	19.4	-3.188	ug/L	0.1246	-0.225	mg/kg	0.0088	3.91%
Co 228.616	109.8	-3.428	ug/L	0.1244	-0.241	mg/kg	0.0088	3.63%
Cr 267.716	3906.8	21.59	ug/L	0.218	1.521	mg/kg	0.0153	1.01%
Cu 327.393	-512.0	-4.049	ug/L	2.4831	-0.285	mg/kg	0.1749	61.32%
Fe 273.955	12116.3	404.3	ug/L	0.92	28.47	mg/kg	0.065	0.23%
K 766.490	13640.4	5761	ug/L	37.2	405.7	mg/kg	2.62	0.65%
Mg 285.213	637361.9	33050	ug/L	231.9	2327	mg/kg	16.3	0.70%
Mn 257.610	373.0	-0.681	ug/L	0.1210	-0.048	mg/kg	0.0085	17.76%
Mo 202.031	-40.3	-8.466	ug/L	0.3226	-0.596	mg/kg	0.0227	3.81%
Na 589.592	716588.9	56070	ug/L	447.6	3949	mg/kg	31.5	0.80%
Ni 231.604	1607.3	22.68	ug/L	0.066	1.597	mg/kg	0.0046	0.29%
P 213.617	4886145.1	639100	ug/L	1215.4	45010	mg/kg	85.6	0.19%
Pb 220.353	50.1	3.055	ug/L	0.6461	0.215	mg/kg	0.0455	21.15%
Sb 206.836	-1.9	-0.299	ug/L	1.2002	-0.021	mg/kg	0.0845	401.99%
Se 196.026	37.3	-16.37	ug/L	2.209	-1,153	mg/kg	0.1555	13.49%
Sn 189.927	7.5	0.877	ug/L	1.6116	0.062	mg/kg	0.1135	183.70%
Sr 421.552	357072.0	362.0	ug/L	2.98	25.49	mg/kg	0.210	0.82%
Ti 337.279	250.5	2.560	ug/L	0.6933	0.180	mg/kg	0.0488	27.08%
Tl 190.801	-11.7	-1.654	ug/L	0.9442	-0.116	mg/kg	0.0665	57.08%
V 292.402	38.4	-0.834	ug/L	0.0903	-0.059	mg/kg	0.0064	10.83%
Zn 206.200	48593.1	483.9	ug/L	5.52	34.08	mg/kg	0.389	1.14%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12024L
Sample Collection Date: 11/12/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69288
APPL ID: AY71804

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/28/12	11/28/12

Printed: 12/07/12 8:32:29 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 38
Sample ID: AY71804M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 46
Date Collected: 11/28/12 7:01:53 PM
Data Type: Reprocessed on 11/29/12 2:04:39 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71804M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-137.2	-1.232	ug/L	0.5399	-0.049	mg/kg	0.0216	43.81%
Al 308.215	13.9	11.01	ug/L	2.624	0.440	mg/kg	0.1049	23.83%
As 188.979	1.0	0.244	ug/L	1.5697	0.010	mg/kg	0.0628	642.89%
B	-78.8	13.56	ug/L	2.411	0.542	mg/kg	0.0964	17.78%
Ba 233.527	1225.7	1.455	ug/L	0.0554	0.058	mg/kg	0.0022	3.81%
Be 313.107	-243.5	-0.046	ug/L	0.0155	-0.002	mg/kg	0.0006	33.68%
Ca 315.887	15567.8	1537	ug/L	7.9	61.47	mg/kg	0.318	0.52%
Cd 214.440	353.4	0.386	ug/L	0.0608	0.015	mg/kg	0.0024	15.78%
Co 228.616	41.3	0.343	ug/L	0.1575	0.014	mg/kg	0.0063	45.90%
Cr 267.716	334.3	2.807	ug/L	0.2602	0.112	mg/kg	0.0104	9.27%
Cu 327.393	1727.6	19.22	ug/L	0.527	0.769	mg/kg	0.0211	2.74%
Fe 273.955	277489.3	12060	ug/L	119.3	482.4	mg/kg	4.77	0.99%
K 766.490	160673.8	89110	ug/L	994.0	3565	mg/kg	39.8	1.12%
Mg 285.213	60387.3	3851	ug/L	53.3	154.0	mg/kg	2.13	1.38%
Mn 257.610	159.1	4.046	ug/L	0.1171	0.162	mg/kg	0.0047	2.90%
Mo 202.031	36.3	2.092	ug/L	0.2669	0.084	mg/kg	0.0107	12.76%
Na 589.592	196417.6	18580	ug/L	234.9	743.4	mg/kg	9.39	1.26%
Ni 231.604	41.6	0.653	ug/L	0.1748	0.026	mg/kg	0.0070	26.76%
P 213.617	294525.5	53340	ug/L	646.6	2134	mg/kg	25.9	1.21%
Pb 220.353	-42.0	-3.200	ug/L	0.6995	-0.128	mg/kg	0.0280	21.86%
Sb 206.836	7.1	1.366	ug/L	0.5931	0.055	mg/kg	0.0237	43.40%
Se 196.026	46.7	16.24	ug/L	2.079	0.650	mg/kg	0.0831	12.80%
Sn 189.927	-22.3	-3.345	ug/L	0.2525	-0.134	mg/kg	0.0101	7.55%
Sr 421.552	918.7	1.255	ug/L	0.0600	0.050	mg/kg	0.0024	4.78%
Ti 337.279	31.5	0.429	ug/L	0.2541	0.017	mg/kg	0.0102	59.23%
Tl 190.801	-8.0	-1.379	ug/L	0.7515	-0.055	mg/kg	0.0301	54.50%
V 292.402	486.4	-0.647	ug/L	0.2746	-0.026	mg/kg	0.0110	42.44%
Zn 206.200	53959.1	714.8	ug/L	7.23	28.59	mg/kg	0.289	1.01%

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69288 SDG: 69288
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/28/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 15:38	%R(1)	True CCV1	Found 16:18	%R(1)	True CCV1	Found 18:18	%R(1)	
Lead (Pb)	1000	1012	101	1000	1022	102	1000	1063	106	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69288 SDG: 69288
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/28/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 15:38	%R(1)	True CCV2	Found 19:25	%R(1)	True	Found	%R(1)	
Lead (Pb)	1000	1012	101	750	840.3	112				*

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69288 SDG: 69288

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 11/28/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	15:42		16:22		18:26		19:32		18:41		
Lead (Pb)	5.00	U	2.11	J	5.00	U	5.00	U	.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name:	A.P.P.L. INC.	Contract:	Parsons
ARF No.:	69288	SDG:	69288
ICP ID Number:	Phoebe	ICS Source:	Environmental Express

Analysis Date: 11/28/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 15:51	Sol AB 15:56	%R(1)
Aluminum (Al)	200000	200000	196300	207000	104
Calcium (Ca)	200000	200000	202700	215800	108
Iron (Fe)	200000	200000	181800	191200	95.6
Magnesium (Mg)	200000	200000	194900	205700	103
Lead (Pb)		1000	0.538	1028	103

(1) Control Limits: Metals 80-120

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69288 SDG: 69288
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 12/05/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:57	%R(1)	True CCV1	Found 10:22	%R(1)	True CCV1	Found 14:03	%R(1)	
Lead (Pb)	1000	1048	105	1000	1063	106	1000	1037	104	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69288 SDG: 69288
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 12/05/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:57	%R(1)	True CCV2	Found 15:23	%R(1)	True	Found	%R(1)	
Lead (Pb)	1000	1048	105	750	804.9	107				P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69288 SDG: 69288

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 12/05/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C			
	10:00		10:26		14:07		15:29		14:12				
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U	P		

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No.: 69288 SDG: 69288
ICP ID Number: Phoebe ICS Source: Environmental Express

Analysis Date: 12/05/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 10:13	Sol AB 10:18	%R(1)
Aluminum (Al)	200000	200000	190700	190500	95.3
Calcium (Ca)	200000	200000	192600	192400	96.2
Iron (Fe)	200000	200000	178100	176300	88.2
Magnesium (Mg)	200000	200000	187100	187200	93.6
Lead (Pb)		1000	1.078	941.2	94.1

(1) Control Limits: Metals 80-120

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 121128A6010XF
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1 Autosampler Location: 1
Sample ID: CalBlk 121128EA I:PB O:EA Date Collected: 11/28/12 3:17:13 PM
Analyst: Data Type: Reprocessed on 11/29/12 2:03:59 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CalBlk 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	57.7	120.04	208.09%	[0.00]	ug/L
Al 308.215	118.6	11.56	9.74%	[0.00]	ug/L
As 188.979	0.4	10.72	>999.9%	[0.00]	ug/L
B	5.8	2.79	48.01%	[0.00]	ug/L
Ba 233.527	136.5	14.07	10.31%	[0.00]	ug/L
Be 313.107	1817.9	7.31	0.40%	[0.00]	ug/L
Ca 315.887	-308.5	15.09	4.89%	[0.00]	ug/L
Cd 214.440	413.7	1.70	0.41%	[0.00]	ug/L
Co 228.616	57.6	19.31	33.53%	[0.00]	ug/L
Cr 267.716	657.2	6.38	0.97%	[0.00]	ug/L
Cu 327.393	-37.5	16.54	44.05%	[0.00]	ug/L
Fe 273.955	213.1	59.06	27.72%	[0.00]	ug/L
K 766.490	-455.9	40.12	8.80%	[0.00]	ug/L
Mg 285.213	-99.9	4.14	4.14%	[0.00]	ug/L
Mn 257.610	-59.7	5.18	8.68%	[0.00]	ug/L
Mo 202.031	159.3	7.97	5.00%	[0.00]	ug/L
Na 589.592	-188.1	68.21	36.27%	[0.00]	ug/L
Ni 231.604	-189.4	8.63	4.55%	[0.00]	ug/L
P 213.617	45.4	1.95	4.30%	[0.00]	ug/L
Pb 220.353	-29.5	13.89	47.01%	[0.00]	ug/L
Sb 206.836	1.1	8.00	759.30%	[0.00]	ug/L
Se 196.026	-14.2	3.03	21.36%	[0.00]	ug/L
Sn 189.927	-4.9	9.96	205.26%	[0.00]	ug/L
Sr 421.552	854.9	54.22	6.34%	[0.00]	ug/L
Ti 337.279	-391.0	7.59	1.94%	[0.00]	ug/L
Tl 190.801	-8.9	2.13	23.96%	[0.00]	ug/L
V 292.402	-611.4	20.48	3.35%	[0.00]	ug/L
Zn 206.200	-454.6	6.23	1.37%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/28/12 3:21:33 PM
Data Type: Reprocessed on 11/29/12 2:04:00 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	183.8	110.81	60.31%	[1.00]	ug/L
Al 308.215	163.6	9.65	5.90%	[100.00]	ug/L
As 188.979	16.1	1.09	6.79%	[3.50]	ug/L
B	173.6	2.25	1.30%	[50.00]	ug/L
Ba 233.527	865.1	16.96	1.96%	[5.00]	ug/L
Be 313.107	12860.5	252.18	1.96%	[2.00]	ug/L
Ca 315.887	1328.8	13.30	1.00%	[100.00]	ug/L
Cd 214.440	1927.0	3.97	0.21%	[5.00]	ug/L
Co 228.616	374.8	15.30	4.08%	[5.00]	ug/L
Cr 267.716	801.2	28.50	3.56%	[5.00]	ug/L
Cu 327.393	513.6	41.93	8.16%	[5.00]	ug/L
Fe 273.955	1422.8	26.83	1.89%	[50.00]	ug/L
K 766.490	1740.2	25.87	1.49%	[1000.00]	ug/L
Mg 285.213	955.3	22.75	2.38%	[50]	ug/L
Mn 257.610	258.6	6.30	2.44%	[5.00]	ug/L
Mo 202.031	224.6	4.23	1.89%	[5.00]	ug/L
Na 589.592	12062.4	205.86	1.71%	[1000.00]	ug/L
Ni 231.604	396.6	27.38	6.90%	[5.00]	ug/L
P 213.617	162.8	6.79	4.17%	[25.00]	ug/L
Pb 220.353	51.4	1.19	2.31%	[3.00]	ug/L
Sb 206.836	33.2	1.33	4.01%	[5.00]	ug/L
Se 196.026	19.8	8.82	44.46%	[5.00]	ug/L
Sn 189.927	38.8	3.89	10.05%	[5.00]	ug/L
Sr 421.552	4979.3	104.98	2.11%	[5.00]	ug/L
Ti 337.279	201.4	2.79	1.38%	[5.00]	ug/L
Tl 190.801	33.9	2.35	6.93%	[5.00]	ug/L
V 292.402	1188.6	179.37	15.09%	[5.00]	ug/L
Zn 206.200	2035.5	9.80	0.48%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/28/12 3:25:57 PM
Data Type: Reprocessed on 11/29/12 2:04:01 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	57223.4	420.02	0.73%	[500.0]	ug/L
Al 308.215	30433.0	214.70	0.71%	[20000.00]	ug/L
As 188.979	4355.2	6.10	0.14%	[1000.00]	ug/L
B	3115.8	14.65	0.47%	[1000.00]	ug/L
Ba 233.527	150389.2	1612.74	1.07%	[1000.00]	ug/L
Be 313.107	5694094.7	62060.69	1.09%	[1000.00]	ug/L
Ca 315.887	543188.8	8287.30	1.53%	[50000]	ug/L
Cd 214.440	327625.9	3706.38	1.13%	[1000.00]	ug/L
Co 228.616	61454.7	578.00	0.94%	[1000.00]	ug/L
Cr 267.716	132573.3	1378.71	1.04%	[1000.00]	ug/L
Cu 327.393	92180.8	560.78	0.61%	[1000.00]	ug/L
Fe 273.955	482707.5	5163.58	1.07%	[20000]	ug/L
K 766.490	37578.3	328.66	0.87%	[20000]	ug/L
Mg 285.213	843954.0	12383.67	1.47%	[50000]	ug/L
Mn 257.610	46574.8	206.28	0.44%	[1000.00]	ug/L
Mo 202.031	40606.2	315.30	0.78%	[1000.00]	ug/L
Na 589.592	280460.2	4299.57	1.53%	[25000]	ug/L
Ni 231.604	58466.5	569.27	0.97%	[1000.00]	ug/L
P 213.617	28836.9	317.10	1.10%	[5000]	ug/L
Pb 220.353	13980.8	61.42	0.44%	[1000.00]	ug/L
Sb 206.836	5457.6	8.86	0.16%	[1000.00]	ug/L
Se 196.026	4422.2	16.78	0.38%	[1000.00]	ug/L
Sn 189.927	7165.5	40.43	0.56%	[1000.00]	ug/L
Sr 421.552	894684.5	13548.45	1.51%	[1000.00]	ug/L
Ti 337.279	37471.6	313.63	0.84%	[1000.00]	ug/L
Tl 190.801	6162.6	30.14	0.49%	[1000.00]	ug/L
V 292.402	220475.7	2127.57	0.96%	[1000.00]	ug/L
Zn 206.200	80423.3	1074.30	1.34%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 11/28/12 3:29:32 PM
Data Type: Reprocessed on 11/29/12 2:04:02 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	110562.9	2122.21	1.92%	[1000.00]	ug/L
Al 308.215	56795.9	765.00	1.35%	[40000.00]	ug/L
As 188.979	8103.9	187.03	2.31%	[2000.00]	ug/L
B	5798.8	107.75	1.86%	[2000.00]	ug/L
Ba 233.527	285260.5	5243.57	1.84%	[2000.00]	ug/L
Be 313.107	10388989.5	29266.24	0.28%	[2000.00]	ug/L
Ca 315.887	988645.0	7050.07	0.71%	[100000.0]	ug/L
Cd 214.440	608232.3	13313.60	2.19%	[2000.00]	ug/L
Co 228.616	115651.3	2290.64	1.98%	[2000.00]	ug/L
Cr 267.716	249645.7	4384.12	1.76%	[2000.00]	ug/L
Cu 327.393	178599.1	3344.85	1.87%	[2000.00]	ug/L
Fe 273.955	908855.2	16885.84	1.86%	[40000]	ug/L
K 766.490	71361.7	253.34	0.36%	[40000]	ug/L
Mg 285.213	1544299.0	9686.42	0.63%	[100000]	ug/L
Mn 257.610	85667.6	1412.31	1.65%	[2000.00]	ug/L
Mo 202.031	76845.3	1465.21	1.91%	[2000.00]	ug/L
Na 589.592	518981.0	2566.64	0.49%	[50000]	ug/L
Ni 231.604	108917.3	2056.54	1.89%	[2000.00]	ug/L
P 213.617	54603.4	1354.33	2.48%	[10000]	ug/L
Pb 220.353	25804.3	697.64	2.70%	[2000.00]	ug/L
Sb 206.836	10285.6	304.49	2.96%	[2000.00]	ug/L
Se 196.026	8157.0	246.77	3.03%	[2000.00]	ug/L
Sn 189.927	13098.2	262.48	2.00%	[2000.00]	ug/L
Sr 421.552	1651339.5	8488.39	0.51%	[2000.00]	ug/L
Ti 337.279	70039.3	1097.85	1.57%	[2000.00]	ug/L
Tl 190.801	11428.2	349.97	3.06%	[2000.00]	ug/L
V 292.402	419360.2	7657.02	1.83%	[2000.00]	ug/L
Zn 206.200	148542.4	3385.10	2.28%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	111.3	0.00000	0.999902	
Al 308.215	3	Lin Thru 0	0.0	1.440	0.00000	0.999601	
As 188.979	3	Lin Thru 0	0.0	4.113	0.00000	0.999565	
B	3	Lin Thru 0	0.0	2.943	0.00000	0.999560	
Ba 233.527	3	Lin Thru 0	0.0	144.2	0.00000	0.999768	
Be 313.107	3	Lin Thru 0	0.0	5294	0.00000	0.999288	
Ca 315.887	3	Lin Thru 0	0.0	10.08	0.00000	0.999249	
Cd 214.440	3	Lin Thru 0	0.0	308.8	0.00000	0.999537	
Co 228.616	3	Lin Thru 0	0.0	58.55	0.00000	0.999693	
Cr 267.716	3	Lin Thru 0	0.0	126.4	0.00000	0.999699	
Cu 327.393	3	Lin Thru 0	0.0	89.88	0.00000	0.999918	
Fe 273.955	3	Lin Thru 0	0.0	23.00	0.00000	0.999698	
K 766.490	3	Lin Thru 0	0.0	1.803	0.00000	0.999778	
Mg 285.213	3	Lin Thru 0	0.0	15.73	0.00000	0.999334	
Mn 257.610	3	Lin Thru 0	0.0	43.58	0.00000	0.999411	
Mo 202.031	3	Lin Thru 0	0.0	38.86	0.00000	0.999747	
Na 589.592	3	Lin Thru 0	0.0	10.55	0.00000	0.999491	
Ni 231.604	3	Lin Thru 0	0.0	55.26	0.00000	0.999579	
P 213.617	3	Lin Thru 0	0.0	5.522	0.00000	0.999753	
Pb 220.353	3	Lin Thru 0	0.0	13.12	0.00000	0.999459	
Sb 206.836	3	Lin Thru 0	0.0	5.206	0.00000	0.999707	
Se 196.026	3	Lin Thru 0	0.0	4.147	0.00000	0.999451	
Sn 189.927	3	Lin Thru 0	0.0	6.672	0.00000	0.999318	
Sr 421.552	3	Lin Thru 0	0.0	839.5	0.00000	0.999460	
Ti 337.279	3	Lin Thru 0	0.0	35.51	0.00000	0.999619	
Tl 190.801	3	Lin Thru 0	0.0	5.804	0.00000	0.999523	

V 292.402	3	Lin Thru 0	0.0	211.8	0.00000	0.999792
Zn 206.200	3	Lin Thru 0	0.0	75.50	0.00000	0.999465

Sequence No.: 5
Sample ID: ICV 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 11/28/12 3:38:21 PM
Data Type: Reprocessed on 11/29/12 2:04:04 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	53891.1	484.0	ug/L	8.11	484.0	ug/L	8.11	1.68%
QC value within limits for Ag 338.289 Recovery = 96.80%								
Al 308.215	33951.6	23580	ug/L	286.9	23580	ug/L	286.9	1.22%
QC value within limits for Al 308.215 Recovery = 94.34%								
As 188.979	4019.0	977.2	ug/L	5.42	977.2	ug/L	5.42	0.55%
QC value within limits for As 188.979 Recovery = 97.72%								
B	2849.2	1043	ug/L	18.4	1043	ug/L	18.4	1.76%
QC value within limits for B Recovery = 104.32%								
Ba 233.527	139599.5	955.0	ug/L	18.40	955.0	ug/L	18.40	1.93%
QC value within limits for Ba 233.527 Recovery = 95.50%								
Be 313.107	5284222.5	998.1	ug/L	13.10	998.1	ug/L	13.10	1.31%
QC value within limits for Be 313.107 Recovery = 99.81%								
Ca 315.887	241255.9	23920	ug/L	98.3	23920	ug/L	98.3	0.41%
QC value within limits for Ca 315.887 Recovery = 95.68%								
Cd 214.440	310196.9	1004	ug/L	17.8	1004	ug/L	17.8	1.77%
QC value within limits for Cd 214.440 Recovery = 100.39%								
Co 228.616	58384.0	996.0	ug/L	18.94	996.0	ug/L	18.94	1.90%
QC value within limits for Co 228.616 Recovery = 99.60%								
Cr 267.716	126179.1	999.6	ug/L	15.94	999.6	ug/L	15.94	1.60%
QC value within limits for Cr 267.716 Recovery = 99.96%								
Cu 327.393	86277.6	960.0	ug/L	15.28	960.0	ug/L	15.28	1.59%
QC value within limits for Cu 327.393 Recovery = 96.00%								
Fe 273.955	554184.7	24010	ug/L	441.1	24010	ug/L	441.1	1.84%
QC value within limits for Fe 273.955 Recovery = 96.04%								
K 766.490	42979.0	23830	ug/L	122.3	23830	ug/L	122.3	0.51%
QC value within limits for K 766.490 Recovery = 95.31%								
Mg 285.213	378907.6	24110	ug/L	128.4	24110	ug/L	128.4	0.53%
QC value within limits for Mg 285.213 Recovery = 96.46%								
Mn 257.610	43504.6	998.5	ug/L	11.54	998.5	ug/L	11.54	1.16%
QC value within limits for Mn 257.610 Recovery = 99.85%								
Mo 202.031	37230.6	960.6	ug/L	16.49	960.6	ug/L	16.49	1.72%
QC value within limits for Mo 202.031 Recovery = 96.06%								
Na 589.592	255645.3	24220	ug/L	101.4	24220	ug/L	101.4	0.42%
QC value within limits for Na 589.592 Recovery = 96.87%								
Ni 231.604	56705.7	1024	ug/L	20.3	1024	ug/L	20.3	1.98%
QC value within limits for Ni 231.604 Recovery = 102.40%								
P 213.617	26437.4	4788	ug/L	75.5	4788	ug/L	75.5	1.58%
QC value within limits for P 213.617 Recovery = 95.76%								
Pb 220.353	13277.2	1012	ug/L	4.8	1012	ug/L	4.8	0.47%
QC value within limits for Pb 220.353 Recovery = 101.21%								
Sb 206.836	5190.5	997.1	ug/L	6.36	997.1	ug/L	6.36	0.64%
QC value within limits for Sb 206.836 Recovery = 99.71%								
Se 196.026	4144.9	1012	ug/L	4.2	1012	ug/L	4.2	0.42%
QC value within limits for Se 196.026 Recovery = 101.24%								
Sn 189.927	4090.6	613.1	ug/L	1.57	613.1	ug/L	1.57	0.26%
QC value greater than the upper limit for Sn 189.927 Recovery = 122.61%								
Sr 421.552	810050.5	964.7	ug/L	2.49	964.7	ug/L	2.49	0.26%
QC value within limits for Sr 421.552 Recovery = 96.47%								
Ti 337.279	35713.0	1005	ug/L	12.5	1005	ug/L	12.5	1.25%
QC value within limits for Ti 337.279 Recovery = 100.53%								
Tl 190.801	5674.5	977.7	ug/L	6.24	977.7	ug/L	6.24	0.64%
QC value within limits for Tl 190.801 Recovery = 97.77%								
V 292.402	208162.3	999.0	ug/L	17.98	999.0	ug/L	17.98	1.80%
QC value within limits for V 292.402 Recovery = 99.90%								
Zn 206.200	77955.2	1042	ug/L	18.9	1042	ug/L	18.9	1.82%
QC value within limits for Zn 206.200 Recovery = 104.17%								

QC Failed. Continue with analysis.

Sequence No.: 6
Sample ID: ICB 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/28/12 3:42:56 PM
Data Type: Reprocessed on 11/29/12 2:04:05 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	1.4	0.013	ug/L	0.1983	0.013	ug/L	0.1983	>999.9%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-13.6	-9.447	ug/L	8.1751	-9.447	ug/L	8.1751	86.54%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	0.6	0.143	ug/L	0.7525	0.143	ug/L	0.7525	525.90%
QC value within limits for As 188.979 Recovery = Not calculated								
B	41.0	13.94	ug/L	0.427	13.94	ug/L	0.427	3.07%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	4.6	0.032	ug/L	0.0323	0.032	ug/L	0.0323	101.76%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-2.3	0.000	ug/L	0.0178	0.000	ug/L	0.0178	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	32.0	3.172	ug/L	1.2866	3.172	ug/L	1.2866	40.56%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	22.9	0.074	ug/L	0.0164	0.074	ug/L	0.0164	22.15%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	13.5	0.232	ug/L	0.3214	0.232	ug/L	0.3214	138.33%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	12.5	0.099	ug/L	0.3242	0.099	ug/L	0.3242	328.79%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	34.1	0.379	ug/L	0.4747	0.379	ug/L	0.4747	125.18%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	-9.4	-0.415	ug/L	1.0033	-0.415	ug/L	1.0033	241.53%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-2.1	-1.172	ug/L	131.1621	-1.172	ug/L	131.1621	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	28.2	1.791	ug/L	0.3123	1.791	ug/L	0.3123	17.44%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	4.4	0.101	ug/L	0.1338	0.101	ug/L	0.1338	132.14%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	19.5	0.502	ug/L	0.2220	0.502	ug/L	0.2220	44.21%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	120.6	11.43	ug/L	14.448	11.43	ug/L	14.448	126.42%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	3.7	0.066	ug/L	0.2659	0.066	ug/L	0.2659	405.17%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	7.0	1.267	ug/L	0.2815	1.267	ug/L	0.2815	22.21%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	16.8	1.282	ug/L	0.5787	1.282	ug/L	0.5787	45.13%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	10.2	1.958	ug/L	0.8415	1.958	ug/L	0.8415	42.97%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	3.1	0.744	ug/L	0.4407	0.744	ug/L	0.4407	59.27%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	10.0	1.495	ug/L	0.4139	1.495	ug/L	0.4139	27.69%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	163.6	0.195	ug/L	0.1889	0.195	ug/L	0.1889	96.93%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-5.7	-0.161	ug/L	0.2392	-0.161	ug/L	0.2392	148.40%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.7	1.492	ug/L	0.9900	1.492	ug/L	0.9900	66.34%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	11.2	0.061	ug/L	0.2313	0.061	ug/L	0.2313	378.35%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	4.1	0.056	ug/L	0.1037	0.056	ug/L	0.1037	186.73%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 11/28/12 3:51:42 PM
Data Type: Reprocessed on 11/29/12 2:04:07 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	16.2	0.146	ug/L	0.1279	0.146	ug/L	0.1279	87.82%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	282715.9	196300	ug/L	838.1	196300	ug/L	838.1	0.43%
QC value within limits for Al 308.215 Recovery = 98.16%								
As 188.979	-4.8	-1.167	ug/L	0.8357	-1.167	ug/L	0.8357	71.63%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-1749.1	-19.53	ug/L	6.556	-19.53	ug/L	6.556	33.56%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	15672.9	3.332	ug/L	2.4092	3.332	ug/L	2.4092	72.30%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-584.0	-0.110	ug/L	0.0126	-0.110	ug/L	0.0126	11.44%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2043760.6	202700	ug/L	718.2	202700	ug/L	718.2	0.35%
QC value within limits for Ca 315.887 Recovery = 101.34%								
Cd 214.440	2921.2	0.128	ug/L	0.1238	0.128	ug/L	0.1238	97.09%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	271.1	-0.917	ug/L	0.3553	-0.917	ug/L	0.3553	38.75%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	36.3	0.815	ug/L	0.0828	0.815	ug/L	0.0828	10.15%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	12.3	0.137	ug/L	0.0389	0.137	ug/L	0.0389	28.44%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4183629.8	181800	ug/L	961.3	181800	ug/L	961.3	0.53%
QC value within limits for Fe 273.955 Recovery = 90.92%								
K 766.490	156.4	-30.74	ug/L	102.702	-30.74	ug/L	102.702	334.08%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3062981.2	194900	ug/L	606.4	194900	ug/L	606.4	0.31%
QC value within limits for Mg 285.213 Recovery = 97.46%								
Mn 257.610	-65.6	-0.691	ug/L	0.6549	-0.691	ug/L	0.6549	94.82%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-549.8	-0.409	ug/L	0.0967	-0.409	ug/L	0.0967	23.62%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	385.8	-9.786	ug/L	10.9129	-9.786	ug/L	10.9129	111.52%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	62.0	-0.570	ug/L	0.6714	-0.570	ug/L	0.6714	117.84%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-17.4	-3.157	ug/L	1.2718	-3.157	ug/L	1.2718	40.29%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	7.1	0.538	ug/L	0.9028	0.538	ug/L	0.9028	167.93%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	2.9	0.559	ug/L	1.0485	0.559	ug/L	1.0485	187.60%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-437.0	0.118	ug/L	3.0742	0.118	ug/L	3.0742	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-4.4	-0.653	ug/L	1.5109	-0.653	ug/L	1.5109	231.23%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	1790.6	-0.105	ug/L	0.0324	-0.105	ug/L	0.0324	30.76%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	107.2	-0.470	ug/L	2.2646	-0.470	ug/L	2.2646	481.79%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-6.5	-1.112	ug/L	1.2518	-1.112	ug/L	1.2518	112.59%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	9544.6	1.353	ug/L	0.3121	1.353	ug/L	0.3121	23.06%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	702.0	0.199	ug/L	0.4911	0.199	ug/L	0.4911	247.36%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 11/28/12 3:56:22 PM
Data Type: Reprocessed on 11/29/12 2:04:08 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	118785.0	1067	ug/L	6.8	1067	ug/L	6.8	0.63%
QC value within limits for Ag 338.289 Recovery = 106.69%								
Al 308.215	298141.2	207000	ug/L	467.7	207000	ug/L	467.7	0.23%
QC value within limits for Al 308.215 Recovery = 103.52%								
As 188.979	2144.7	521.5	ug/L	0.67	521.5	ug/L	0.67	0.13%
QC value within limits for As 188.979 Recovery = 104.30%								
B	-1900.1	-41.92	ug/L	10.355	-41.92	ug/L	10.355	24.70%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	90390.2	516.5	ug/L	2.48	516.5	ug/L	2.48	0.48%
QC value within limits for Ba 233.527 Recovery = 103.30%								
Be 313.107	2751027.8	519.6	ug/L	0.91	519.6	ug/L	0.91	0.17%
QC value within limits for Be 313.107 Recovery = 103.92%								
Ca 315.887	2176189.4	215800	ug/L	650.7	215800	ug/L	650.7	0.30%
QC value within limits for Ca 315.887 Recovery = 107.90%								
Cd 214.440	315844.8	1013	ug/L	5.6	1013	ug/L	5.6	0.55%
QC value within limits for Cd 214.440 Recovery = 101.32%								
Co 228.616	29789.0	503.9	ug/L	3.67	503.9	ug/L	3.67	0.73%
QC value within limits for Co 228.616 Recovery = 100.78%								
Cr 267.716	65030.6	515.7	ug/L	3.43	515.7	ug/L	3.43	0.66%
QC value within limits for Cr 267.716 Recovery = 103.14%								
Cu 327.393	47251.1	525.7	ug/L	2.62	525.7	ug/L	2.62	0.50%
QC value within limits for Cu 327.393 Recovery = 105.15%								
Fe 273.955	4399534.3	191200	ug/L	605.1	191200	ug/L	605.1	0.32%
QC value within limits for Fe 273.955 Recovery = 95.59%								
K 766.490	-23.1	-138.7	ug/L	102.28	-138.7	ug/L	102.28	73.76%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3232851.9	205700	ug/L	711.7	205700	ug/L	711.7	0.35%
QC value within limits for Mg 285.213 Recovery = 102.87%								
Mn 257.610	23014.6	529.0	ug/L	6.47	529.0	ug/L	6.47	1.22%
QC value within limits for Mn 257.610 Recovery = 105.80%								
Mo 202.031	19565.9	518.3	ug/L	2.33	518.3	ug/L	2.33	0.45%
QC value within limits for Mo 202.031 Recovery = 103.67%								
Na 589.592	313.2	-21.26	ug/L	4.378	-21.26	ug/L	4.378	20.59%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	56477.2	1019	ug/L	7.1	1019	ug/L	7.1	0.70%
QC value within limits for Ni 231.604 Recovery = 101.93%								
P 213.617	-5.0	-0.911	ug/L	1.7464	-0.911	ug/L	1.7464	191.71%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	13481.6	1028	ug/L	3.4	1028	ug/L	3.4	0.33%
QC value within limits for Pb 220.353 Recovery = 102.77%								
Sb 206.836	2689.3	516.6	ug/L	2.71	516.6	ug/L	2.71	0.52%
QC value within limits for Sb 206.836 Recovery = 103.32%								
Se 196.026	1712.1	523.6	ug/L	1.65	523.6	ug/L	1.65	0.32%
QC value within limits for Se 196.026 Recovery = 104.71%								
Sn 189.927	-18.5	-2.771	ug/L	1.3352	-2.771	ug/L	1.3352	48.19%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2230.7	0.287	ug/L	0.1460	0.287	ug/L	0.1460	50.88%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	117.3	-0.331	ug/L	3.0666	-0.331	ug/L	3.0666	927.76%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2896.6	499.1	ug/L	3.53	499.1	ug/L	3.53	0.71%
QC value within limits for Tl 190.801 Recovery = 99.82%								
V 292.402	121021.7	537.5	ug/L	3.29	537.5	ug/L	3.29	0.61%
QC value within limits for V 292.402 Recovery = 107.50%								
Zn 206.200	77767.9	1026	ug/L	8.0	1026	ug/L	8.0	0.78%
QC value within limits for Zn 206.200 Recovery = 102.56%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/28/12 4:18:01 PM
Data Type: Reprocessed on 11/29/12 2:04:09 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	53169.0	477.5	ug/L	20.88	477.5	ug/L	20.88	4.37%
QC value within limits for Ag 338.289 Recovery = 95.51%								
Al 308.215	28768.7	19980	ug/L	222.4	19980	ug/L	222.4	1.11%
QC value within limits for Al 308.215 Recovery = 99.92%								
As 188.979	4166.1	1013	ug/L	2.6	1013	ug/L	2.6	0.26%
QC value within limits for As 188.979 Recovery = 101.30%								
B	2982.1	1073	ug/L	11.6	1073	ug/L	11.6	1.08%
QC value within limits for B Recovery = 107.28%								
Ba 233.527	140620.7	964.6	ug/L	54.03	964.6	ug/L	54.03	5.60%
QC value within limits for Ba 233.527 Recovery = 96.46%								
Be 313.107	5366046.8	1014	ug/L	23.5	1014	ug/L	23.5	2.31%
QC value within limits for Be 313.107 Recovery = 101.35%								
Ca 315.887	515595.5	51130	ug/L	537.3	51130	ug/L	537.3	1.05%
QC value within limits for Ca 315.887 Recovery = 102.26%								
Cd 214.440	308919.6	1000.0	ug/L	60.45	1000.0	ug/L	60.45	6.05%
QC value within limits for Cd 214.440 Recovery = 100.00%								
Co 228.616	57599.2	982.7	ug/L	56.43	982.7	ug/L	56.43	5.74%
QC value within limits for Co 228.616 Recovery = 98.27%								
Cr 267.716	123980.6	981.8	ug/L	55.51	981.8	ug/L	55.51	5.65%
QC value within limits for Cr 267.716 Recovery = 98.18%								
Cu 327.393	86132.0	958.3	ug/L	34.82	958.3	ug/L	34.82	3.63%
QC value within limits for Cu 327.393 Recovery = 95.83%								
Fe 273.955	452519.1	19590	ug/L	1101.3	19590	ug/L	1101.3	5.62%
QC value within limits for Fe 273.955 Recovery = 97.95%								
K 766.490	35686.9	19780	ug/L	39.7	19780	ug/L	39.7	0.20%
QC value within limits for K 766.490 Recovery = 98.88%								
Mg 285.213	798634.7	50790	ug/L	435.9	50790	ug/L	435.9	0.86%
QC value within limits for Mg 285.213 Recovery = 101.58%								
Mn 257.610	44214.7	1013	ug/L	8.9	1013	ug/L	8.9	0.88%
QC value within limits for Mn 257.610 Recovery = 101.34%								
Mo 202.031	37913.4	977.7	ug/L	49.53	977.7	ug/L	49.53	5.07%
QC value within limits for Mo 202.031 Recovery = 97.77%								
Na 589.592	263349.8	24950	ug/L	208.8	24950	ug/L	208.8	0.84%
QC value within limits for Na 589.592 Recovery = 99.78%								
Ni 231.604	54948.7	992.2	ug/L	53.23	992.2	ug/L	53.23	5.36%
QC value within limits for Ni 231.604 Recovery = 99.22%								
P 213.617	27197.2	4925	ug/L	249.4	4925	ug/L	249.4	5.06%
QC value within limits for P 213.617 Recovery = 98.51%								
Pb 220.353	13408.0	1022	ug/L	2.1	1022	ug/L	2.1	0.21%
QC value within limits for Pb 220.353 Recovery = 102.21%								
Sb 206.836	5257.2	1010	ug/L	5.5	1010	ug/L	5.5	0.55%
QC value within limits for Sb 206.836 Recovery = 100.99%								
Se 196.026	4236.9	1031	ug/L	3.4	1031	ug/L	3.4	0.33%
QC value within limits for Se 196.026 Recovery = 103.10%								
Sn 189.927	6881.6	1031	ug/L	4.4	1031	ug/L	4.4	0.42%
QC value within limits for Sn 189.927 Recovery = 103.14%								
Sr 421.552	838783.1	998.8	ug/L	8.84	998.8	ug/L	8.84	0.88%
QC value within limits for Sr 421.552 Recovery = 99.88%								
Ti 337.279	35474.9	998.2	ug/L	9.75	998.2	ug/L	9.75	0.98%
QC value within limits for Ti 337.279 Recovery = 99.82%								
Tl 190.801	5886.5	1014	ug/L	0.9	1014	ug/L	0.9	0.09%
QC value within limits for Tl 190.801 Recovery = 101.43%								
V 292.402	205745.5	988.7	ug/L	52.35	988.7	ug/L	52.35	5.30%
QC value within limits for V 292.402 Recovery = 98.87%								
Zn 206.200	75892.6	1015	ug/L	63.7	1015	ug/L	63.7	6.28%
QC value within limits for Zn 206.200 Recovery = 101.46%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/28/12 4:22:38 PM
Data Type: Reprocessed on 11/29/12 2:04:10 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-42.9	-0.385	ug/L	0.8842	-0.385	ug/L	0.8842	229.74%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	13.1	9.034	ug/L	15.3699	9.034	ug/L	15.3699	170.14%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.7	1.876	ug/L	1.5506	1.876	ug/L	1.5506	82.65%
QC value within limits for As 188.979 Recovery = Not calculated								
B	53.7	18.24	ug/L	2.334	18.24	ug/L	2.334	12.80%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	9.4	0.064	ug/L	0.0917	0.064	ug/L	0.0917	143.88%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	127.0	0.024	ug/L	0.0156	0.024	ug/L	0.0156	65.11%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	32.4	3.209	ug/L	1.3114	3.209	ug/L	1.3114	40.86%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	32.6	0.106	ug/L	0.0339	0.106	ug/L	0.0339	31.93%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	5.4	0.094	ug/L	0.2829	0.094	ug/L	0.2829	300.68%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	22.5	0.178	ug/L	0.1159	0.178	ug/L	0.1159	65.22%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	58.0	0.646	ug/L	0.0593	0.646	ug/L	0.0593	9.19%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	18.9	0.841	ug/L	0.5380	0.841	ug/L	0.5380	63.97%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	15.5	8.620	ug/L	34.1907	8.620	ug/L	34.1907	396.65%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	33.9	2.158	ug/L	0.3704	2.158	ug/L	0.3704	17.16%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	3.7	0.086	ug/L	0.1584	0.086	ug/L	0.1584	184.25%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	34.3	0.882	ug/L	0.6141	0.882	ug/L	0.6141	69.60%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	343.1	32.52	ug/L	16.154	32.52	ug/L	16.154	49.68%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-6.1	-0.111	ug/L	0.1399	-0.111	ug/L	0.1399	126.49%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	2.7	0.485	ug/L	0.3301	0.485	ug/L	0.3301	68.11%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	27.7	2.113	ug/L	0.6396	2.113	ug/L	0.6396	30.27%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	18.7	3.587	ug/L	1.0531	3.587	ug/L	1.0531	29.35%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	7.7	1.849	ug/L	1.4552	1.849	ug/L	1.4552	78.71%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	42.5	6.374	ug/L	0.5413	6.374	ug/L	0.5413	8.49%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	163.5	0.195	ug/L	0.1779	0.195	ug/L	0.1779	91.38%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	3.8	0.106	ug/L	0.4046	0.106	ug/L	0.4046	382.40%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2.2	0.383	ug/L	0.2898	0.383	ug/L	0.2898	75.75%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-52.9	-0.236	ug/L	0.4887	-0.236	ug/L	0.4887	206.95%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	5.6	0.077	ug/L	0.0550	0.077	ug/L	0.0550	71.90%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 30
Sample ID: CCV1 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/28/12 6:18:27 PM
Data Type: Reprocessed on 11/29/12 2:04:30 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	56538.8	507.8	ug/L	4.97	507.8	ug/L	4.97	0.98%
QC value within limits for Ag 338.289 Recovery = 101.56%								
Al 308.215	29844.0	20730	ug/L	60.4	20730	ug/L	60.4	0.29%
QC value within limits for Al 308.215 Recovery = 103.66%								
As 188.979	4324.9	1052	ug/L	5.7	1052	ug/L	5.7	0.54%
QC value within limits for As 188.979 Recovery = 105.16%								
B	3133.0	1128	ug/L	14.2	1128	ug/L	14.2	1.26%
QC value greater than the upper limit for B Recovery = 112.84%								
Ba 233.527	150444.1	1032	ug/L	10.0	1032	ug/L	10.0	0.97%
QC value within limits for Ba 233.527 Recovery = 103.20%								
Be 313.107	5674093.6	1072	ug/L	15.9	1072	ug/L	15.9	1.48%
QC value within limits for Be 313.107 Recovery = 107.17%								
Ca 315.887	540541.1	53600	ug/L	620.2	53600	ug/L	620.2	1.16%
QC value within limits for Ca 315.887 Recovery = 107.21%								
Cd 214.440	330780.8	1071	ug/L	8.6	1071	ug/L	8.6	0.80%
QC value within limits for Cd 214.440 Recovery = 107.07%								
Co 228.616	61656.6	1052	ug/L	10.0	1052	ug/L	10.0	0.96%
QC value within limits for Co 228.616 Recovery = 105.20%								
Cr 267.716	132478.8	1049	ug/L	8.9	1049	ug/L	8.9	0.85%
QC value within limits for Cr 267.716 Recovery = 104.91%								
Cu 327.393	91824.4	1022	ug/L	11.7	1022	ug/L	11.7	1.15%
QC value within limits for Cu 327.393 Recovery = 102.17%								
Fe 273.955	483849.6	20950	ug/L	183.7	20950	ug/L	183.7	0.88%
QC value within limits for Fe 273.955 Recovery = 104.73%								
K 766.490	37595.3	20830	ug/L	294.3	20830	ug/L	294.3	1.41%
QC value within limits for K 766.490 Recovery = 104.16%								
Mg 285.213	836599.5	53210	ug/L	530.4	53210	ug/L	530.4	1.00%
QC value within limits for Mg 285.213 Recovery = 106.41%								
Mn 257.610	45969.6	1054	ug/L	2.5	1054	ug/L	2.5	0.24%
QC value within limits for Mn 257.610 Recovery = 105.36%								
Mo 202.031	40688.9	1049	ug/L	12.0	1049	ug/L	12.0	1.14%
QC value within limits for Mo 202.031 Recovery = 104.93%								
Na 589.592	276190.4	26160	ug/L	300.7	26160	ug/L	300.7	1.15%
QC value within limits for Na 589.592 Recovery = 104.65%								
Ni 231.604	58870.5	1063	ug/L	7.8	1063	ug/L	7.8	0.74%
QC value within limits for Ni 231.604 Recovery = 106.30%								
P 213.617	29177.9	5284	ug/L	47.0	5284	ug/L	47.0	0.89%
QC value within limits for P 213.617 Recovery = 105.68%								
Pb 220.353	13940.1	1063	ug/L	8.2	1063	ug/L	8.2	0.77%
QC value within limits for Pb 220.353 Recovery = 106.27%								
Sb 206.836	5459.9	1049	ug/L	6.5	1049	ug/L	6.5	0.62%
QC value within limits for Sb 206.836 Recovery = 104.88%								
Se 196.026	4409.7	1073	ug/L	10.4	1073	ug/L	10.4	0.97%
QC value within limits for Se 196.026 Recovery = 107.34%								
Sn 189.927	7290.6	1093	ug/L	15.2	1093	ug/L	15.2	1.39%
QC value within limits for Sn 189.927 Recovery = 109.27%								
Sr 421.552	877275.9	1045	ug/L	12.7	1045	ug/L	12.7	1.21%
QC value within limits for Sr 421.552 Recovery = 104.46%								
Ti 337.279	36849.2	1037	ug/L	5.5	1037	ug/L	5.5	0.53%
QC value within limits for Ti 337.279 Recovery = 103.69%								
Tl 190.801	6082.9	1048	ug/L	6.7	1048	ug/L	6.7	0.64%
QC value within limits for Tl 190.801 Recovery = 104.81%								
V 292.402	219758.8	1056	ug/L	9.8	1056	ug/L	9.8	0.92%
QC value within limits for V 292.402 Recovery = 105.61%								
Zn 206.200	81298.8	1087	ug/L	8.1	1087	ug/L	8.1	0.74%
QC value within limits for Zn 206.200 Recovery = 108.69%								

QC Failed. Continue with analysis.

Sequence No.: 31
Sample ID: CCB 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/28/12 6:26:10 PM
Data Type: Reprocessed on 11/29/12 2:04:31 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-148.8	-1.336	ug/L	0.8826	-1.336	ug/L	0.8826	66.05%
QC value less than the lower limit for Ag 338.289 Recovery = Not calculated								
Al 308.215	-1.4	-0.999	ug/L	3.8651	-0.999	ug/L	3.8651	387.02%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.8	1.178	ug/L	0.7857	1.178	ug/L	0.7857	66.72%
QC value within limits for As 188.979 Recovery = Not calculated								
B	33.6	11.41	ug/L	0.264	11.41	ug/L	0.264	2.31%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	3.3	0.022	ug/L	0.0352	0.022	ug/L	0.0352	157.38%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-267.1	-0.050	ug/L	0.0114	-0.050	ug/L	0.0114	22.53%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	56.7	5.624	ug/L	1.4027	5.624	ug/L	1.4027	24.94%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	13.0	0.042	ug/L	0.0846	0.042	ug/L	0.0846	199.97%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	21.0	0.360	ug/L	0.1670	0.360	ug/L	0.1670	46.42%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	14.9	0.117	ug/L	0.0808	0.117	ug/L	0.0808	68.97%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	35.3	0.393	ug/L	0.2556	0.393	ug/L	0.2556	65.08%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	16.0	0.716	ug/L	0.5349	0.716	ug/L	0.5349	74.71%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-121.8	-67.57	ug/L	58.027	-67.57	ug/L	58.027	85.88%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	17.9	1.142	ug/L	0.5461	1.142	ug/L	0.5461	47.82%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	22.6	0.519	ug/L	0.0403	0.519	ug/L	0.0403	7.77%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	8.9	0.229	ug/L	0.2730	0.229	ug/L	0.2730	119.38%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	511.6	48.53	ug/L	10.838	48.53	ug/L	10.838	22.33%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	2.7	0.048	ug/L	0.3793	0.048	ug/L	0.3793	789.70%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-3.3	-0.595	ug/L	1.0290	-0.595	ug/L	1.0290	173.02%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	6.1	0.461	ug/L	0.0415	0.461	ug/L	0.0415	9.00%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.7	0.709	ug/L	1.7972	0.709	ug/L	1.7972	253.51%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-10.1	-2.436	ug/L	2.4852	-2.436	ug/L	2.4852	102.03%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	4.7	0.699	ug/L	0.9304	0.699	ug/L	0.9304	133.19%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	252.1	0.300	ug/L	0.0361	0.300	ug/L	0.0361	12.02%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-10.8	-0.303	ug/L	0.1797	-0.303	ug/L	0.1797	59.30%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	1.7	0.291	ug/L	0.8209	0.291	ug/L	0.8209	282.52%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-53.2	-0.246	ug/L	0.6976	-0.246	ug/L	0.6976	283.03%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-36.3	-0.480	ug/L	0.0389	-0.480	ug/L	0.0389	8.10%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 42
Sample ID: CCV2 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 11/28/12 7:25:53 PM
Data Type: Reprocessed on 11/29/12 2:04:43 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	44555.1	400.2	ug/L	3.39	400.2	ug/L	3.39	0.85%
QC value within limits for Ag 338.289 Recovery = 106.71%								
Al 308.215	23588.9	16390	ug/L	115.5	16390	ug/L	115.5	0.70%
QC value within limits for Al 308.215 Recovery = 109.24%								
As 188.979	3426.6	833.2	ug/L	1.45	833.2	ug/L	1.45	0.17%
QC value greater than the upper limit for As 188.979 Recovery = 111.09%								
B	2400.0	865.4	ug/L	15.47	865.4	ug/L	15.47	1.79%
QC value greater than the upper limit for B Recovery = 115.39%								
Ba 233.527	118513.6	813.0	ug/L	8.01	813.0	ug/L	8.01	0.99%
QC value within limits for Ba 233.527 Recovery = 108.40%								
Be 313.107	4439265.2	838.5	ug/L	11.40	838.5	ug/L	11.40	1.36%
QC value greater than the upper limit for Be 313.107 Recovery = 111.80%								
Ca 315.887	424717.8	42120	ug/L	831.4	42120	ug/L	831.4	1.97%
QC value greater than the upper limit for Ca 315.887 Recovery = 112.32%								
Cd 214.440	259208.5	839.1	ug/L	8.26	839.1	ug/L	8.26	0.98%
QC value greater than the upper limit for Cd 214.440 Recovery = 111.87%								
Co 228.616	48679.3	830.5	ug/L	8.33	830.5	ug/L	8.33	1.00%
QC value greater than the upper limit for Co 228.616 Recovery = 110.74%								
Cr 267.716	103795.8	822.0	ug/L	6.54	822.0	ug/L	6.54	0.80%
QC value within limits for Cr 267.716 Recovery = 109.60%								
Cu 327.393	72641.7	808.2	ug/L	10.13	808.2	ug/L	10.13	1.25%
QC value within limits for Cu 327.393 Recovery = 107.77%								
Fe 273.955	378818.8	16400	ug/L	163.0	16400	ug/L	163.0	0.99%
QC value within limits for Fe 273.955 Recovery = 109.33%								
K 766.490	29737.4	16480	ug/L	288.1	16480	ug/L	288.1	1.75%
QC value within limits for K 766.490 Recovery = 109.86%								
Mg 285.213	653277.2	41550	ug/L	717.2	41550	ug/L	717.2	1.73%
QC value greater than the upper limit for Mg 285.213 Recovery = 110.79%								
Mn 257.610	36399.1	834.3	ug/L	8.31	834.3	ug/L	8.31	1.00%
QC value greater than the upper limit for Mn 257.610 Recovery = 111.23%								
Mo 202.031	31929.9	823.4	ug/L	7.26	823.4	ug/L	7.26	0.88%
QC value within limits for Mo 202.031 Recovery = 109.78%								
Na 589.592	219788.6	20820	ug/L	379.3	20820	ug/L	379.3	1.82%
QC value greater than the upper limit for Na 589.592 Recovery = 111.04%								
Ni 231.604	46368.2	837.3	ug/L	7.43	837.3	ug/L	7.43	0.89%
QC value greater than the upper limit for Ni 231.604 Recovery = 111.63%								
P 213.617	22968.0	4160	ug/L	51.1	4160	ug/L	51.1	1.23%
QC value greater than the upper limit for P 213.617 Recovery = 110.92%								
Pb 220.353	11023.3	840.3	ug/L	1.40	840.3	ug/L	1.40	0.17%
QC value greater than the upper limit for Pb 220.353 Recovery = 112.04%								
Sb 206.836	4349.0	835.4	ug/L	1.57	835.4	ug/L	1.57	0.19%
QC value greater than the upper limit for Sb 206.836 Recovery = 111.39%								
Se 196.026	3489.0	849.2	ug/L	6.26	849.2	ug/L	6.26	0.74%
QC value greater than the upper limit for Se 196.026 Recovery = 113.22%								
Sn 189.927	5759.9	863.2	ug/L	6.08	863.2	ug/L	6.08	0.70%
QC value greater than the upper limit for Sn 189.927 Recovery = 115.10%								
Sr 421.552	692542.6	824.7	ug/L	15.98	824.7	ug/L	15.98	1.94%
QC value within limits for Sr 421.552 Recovery = 109.96%								
Ti 337.279	29432.4	828.2	ug/L	10.73	828.2	ug/L	10.73	1.30%
QC value greater than the upper limit for Ti 337.279 Recovery = 110.42%								
Tl 190.801	4838.6	833.7	ug/L	5.89	833.7	ug/L	5.89	0.71%
QC value greater than the upper limit for Tl 190.801 Recovery = 111.16%								
V 292.402	172276.5	827.9	ug/L	9.89	827.9	ug/L	9.89	1.19%
QC value within limits for V 292.402 Recovery = 110.39%								
Zn 206.200	63522.7	849.2	ug/L	7.19	849.2	ug/L	7.19	0.85%
QC value greater than the upper limit for Zn 206.200 Recovery = 113.23%								

QC Failed. Continue with analysis.

Sequence No.: 43
Sample ID: CCB 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/28/12 7:32:36 PM
Data Type: Reprocessed on 11/29/12 2:04:44 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-108.3	-0.972	ug/L	0.4725	-0.972	ug/L	0.4725	48.60%
QC value less than the lower limit for Ag 338.289 Recovery = Not calculated								
Al 308.215	9.2	6.375	ug/L	4.8569	6.375	ug/L	4.8569	76.19%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	2.4	0.582	ug/L	0.8465	0.582	ug/L	0.8465	145.37%
QC value within limits for As 188.979 Recovery = Not calculated								
B	28.0	9.519	ug/L	0.5586	9.519	ug/L	0.5586	5.87%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	2.2	0.014	ug/L	0.0479	0.014	ug/L	0.0479	342.96%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-103.7	-0.020	ug/L	0.0276	-0.020	ug/L	0.0276	141.16%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	88.3	8.748	ug/L	1.0928	8.748	ug/L	1.0928	12.49%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	14.0	0.046	ug/L	0.0774	0.046	ug/L	0.0774	169.82%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	24.1	0.413	ug/L	0.3134	0.413	ug/L	0.3134	75.91%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	12.3	0.097	ug/L	0.0574	0.097	ug/L	0.0574	58.88%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-29.5	-0.328	ug/L	0.2817	-0.328	ug/L	0.2817	85.78%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	28.0	1.215	ug/L	0.1496	1.215	ug/L	0.1496	12.31%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	112.6	62.48	ug/L	22.846	62.48	ug/L	22.846	36.56%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	30.8	1.958	ug/L	0.3481	1.958	ug/L	0.3481	17.78%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	5.7	0.131	ug/L	0.1504	0.131	ug/L	0.1504	114.75%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	26.6	0.684	ug/L	0.2071	0.684	ug/L	0.2071	30.29%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	1559.7	147.8	ug/L	5.13	147.8	ug/L	5.13	3.47%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-7.8	-0.142	ug/L	0.0549	-0.142	ug/L	0.0549	38.69%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	0.5	0.094	ug/L	0.3448	0.094	ug/L	0.3448	367.56%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-4.8	-0.363	ug/L	0.6951	-0.363	ug/L	0.6951	191.43%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.0	0.583	ug/L	1.0403	0.583	ug/L	1.0403	178.31%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	0.1	0.010	ug/L	2.0899	0.010	ug/L	2.0899	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	0.7	0.110	ug/L	0.1881	0.110	ug/L	0.1881	170.41%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	138.3	0.165	ug/L	0.1835	0.165	ug/L	0.1835	111.48%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	5.3	0.148	ug/L	0.6950	0.148	ug/L	0.6950	469.39%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-0.2	-0.028	ug/L	0.4310	-0.028	ug/L	0.4310	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-4.5	-0.011	ug/L	0.5268	-0.011	ug/L	0.5268	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-56.4	-0.743	ug/L	0.0547	-0.743	ug/L	0.0547	7.37%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 121205A6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1
Sample ID: CalBlk 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 9:41:54 AM
Data Type: Reprocessed on 12/06/12 10:12:12 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CalBlk 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-285.5	98.06	34.35%	[0.00]	ug/L
Al 308.215	131.7	11.54	8.76%	[0.00]	ug/L
As 188.979	-3.2	5.27	163.63%	[0.00]	ug/L
B	3.8	13.03	342.06%	[0.00]	ug/L
Ba 233.527	155.1	13.37	8.62%	[0.00]	ug/L
Be 313.107	2029.5	101.46	5.00%	[0.00]	ug/L
Ca 315.887	-289.3	32.18	11.13%	[0.00]	ug/L
Cd 214.440	462.2	19.06	4.12%	[0.00]	ug/L
Co 228.616	96.5	20.64	21.38%	[0.00]	ug/L
Cr 267.716	857.1	12.89	1.50%	[0.00]	ug/L
Cu 327.393	-819.1	107.73	13.15%	[0.00]	ug/L
Fe 273.955	294.3	17.50	5.94%	[0.00]	ug/L
K 766.490	-496.4	39.07	7.87%	[0.00]	ug/L
Mg 285.213	-151.3	7.50	4.96%	[0.00]	ug/L
Mn 257.610	-74.2	5.40	7.28%	[0.00]	ug/L
Mo 202.031	177.7	9.21	5.18%	[0.00]	ug/L
Na 589.592	-148.2	134.40	90.68%	[0.00]	ug/L
Ni 231.604	-156.9	10.43	6.65%	[0.00]	ug/L
P 213.617	68.9	7.90	11.46%	[0.00]	ug/L
Pb 220.353	-28.4	3.93	13.83%	[0.00]	ug/L
Sb 206.836	-5.5	2.73	50.04%	[0.00]	ug/L
Se 196.026	-23.0	9.37	40.78%	[0.00]	ug/L
Sn 189.927	-14.3	3.95	27.72%	[0.00]	ug/L
Sr 421.552	873.4	132.64	15.19%	[0.00]	ug/L
Ti 337.279	-464.2	13.18	2.84%	[0.00]	ug/L
Tl 190.801	-13.0	1.44	11.05%	[0.00]	ug/L
V 292.402	-729.2	116.65	16.00%	[0.00]	ug/L
Zn 206.200	-538.5	10.20	1.89%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 12/05/12 9:46:14 AM
Data Type: Reprocessed on 12/06/12 10:12:13 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	71.4	28.31	39.67%	[1.00]	ug/L
Al 308.215	172.0	10.58	6.15%	[100.00]	ug/L
As 188.979	20.7	1.32	6.41%	[3.50]	ug/L
B	214.2	4.25	1.99%	[50.00]	ug/L
Ba 233.527	920.2	12.86	1.40%	[5.00]	ug/L
Be 313.107	14127.7	101.16	0.72%	[2.00]	ug/L
Ca 315.887	1266.2	23.19	1.83%	[100.00]	ug/L
Cd 214.440	2245.4	21.61	0.96%	[5.00]	ug/L
Co 228.616	406.5	1.33	0.33%	[5.00]	ug/L
Cr 267.716	851.8	12.64	1.48%	[5.00]	ug/L
Cu 327.393	812.3	179.51	22.10%	[5.00]	ug/L
Fe 273.955	1477.8	8.84	0.60%	[50.00]	ug/L
K 766.490	2086.1	57.22	2.74%	[1000.00]	ug/L
Mg 285.213	1062.2	5.76	0.54%	[50]	ug/L
Mn 257.610	287.6	10.85	3.77%	[5.00]	ug/L
Mo 202.031	251.9	13.59	5.39%	[5.00]	ug/L
Na 589.592	13206.9	42.86	0.32%	[1000.00]	ug/L
Ni 231.604	418.5	22.79	5.45%	[5.00]	ug/L
P 213.617	189.6	9.35	4.93%	[25.00]	ug/L
Pb 220.353	55.7	8.70	15.62%	[3.00]	ug/L
Sb 206.836	35.5	1.88	5.30%	[5.00]	ug/L
Se 196.026	29.3	3.53	12.07%	[5.00]	ug/L
Sn 189.927	43.6	4.72	10.85%	[5.00]	ug/L
Sr 421.552	5427.7	89.16	1.64%	[5.00]	ug/L
Ti 337.279	211.7	3.41	1.61%	[5.00]	ug/L
Tl 190.801	38.2	6.13	16.06%	[5.00]	ug/L
V 292.402	1463.6	152.11	10.39%	[5.00]	ug/L
Zn 206.200	2327.6	19.81	0.85%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 9:50:40 AM
Data Type: Reprocessed on 12/06/12 10:12:16 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	65369.6	460.16	0.70%	[500.0]	ug/L
Al 308.215	33816.5	230.58	0.68%	[20000.00]	ug/L
As 188.979	5632.1	39.14	0.70%	[1000.00]	ug/L
B	4114.9	53.17	1.29%	[1000.00]	ug/L
Ba 233.527	175255.0	233.84	0.13%	[1000.00]	ug/L
Be 313.107	6881288.1	29273.50	0.43%	[1000.00]	ug/L
Ca 315.887	622046.8	2722.65	0.44%	[50000]	ug/L
Cd 214.440	413333.8	609.20	0.15%	[1000.00]	ug/L
Co 228.616	74338.4	202.11	0.27%	[1000.00]	ug/L
Cr 267.716	156313.2	297.32	0.19%	[1000.00]	ug/L
Cu 327.393	124193.6	777.04	0.63%	[1000.00]	ug/L
Fe 273.955	560254.1	492.21	0.09%	[20000]	ug/L
K 766.490	42887.8	751.83	1.75%	[20000]	ug/L
Mg 285.213	978477.0	5196.56	0.53%	[50000]	ug/L
Mn 257.610	54405.8	348.65	0.64%	[1000.00]	ug/L
Mo 202.031	47511.6	286.11	0.60%	[1000.00]	ug/L
Na 589.592	319197.7	1655.17	0.52%	[25000]	ug/L
Ni 231.604	71278.1	135.04	0.19%	[1000.00]	ug/L
P 213.617	39518.8	183.32	0.46%	[5000]	ug/L
Pb 220.353	16866.2	138.20	0.82%	[1000.00]	ug/L
Sb 206.836	6471.8	32.35	0.50%	[1000.00]	ug/L
Se 196.026	5913.0	32.42	0.55%	[1000.00]	ug/L
Sn 189.927	8688.8	82.23	0.95%	[1000.00]	ug/L
Sr 421.552	964623.0	5236.09	0.54%	[1000.00]	ug/L
Ti 337.279	41884.1	352.93	0.84%	[1000.00]	ug/L
Tl 190.801	7192.2	62.92	0.87%	[1000.00]	ug/L
V 292.402	253339.6	267.27	0.11%	[1000.00]	ug/L
Zn 206.200	103791.7	235.98	0.23%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 12/05/12 9:53:21 AM
Data Type: Reprocessed on 12/06/12 10:12:20 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	129681.3	1651.97	1.27%	[1000.00]	ug/L
Al 308.215	66535.9	799.92	1.20%	[40000.00]	ug/L
As 188.979	11127.2	121.30	1.09%	[2000.00]	ug/L
B	8154.8	143.74	1.76%	[2000.00]	ug/L
Ba 233.527	343128.5	1419.76	0.41%	[2000.00]	ug/L
Be 313.107	13273827.5	76922.04	0.58%	[2000.00]	ug/L
Ca 315.887	1235512.8	7506.23	0.61%	[100000.0]	ug/L
Cd 214.440	797802.3	1866.48	0.23%	[2000.00]	ug/L
Co 228.616	145380.2	529.93	0.36%	[2000.00]	ug/L
Cr 267.716	304697.4	1583.52	0.52%	[2000.00]	ug/L
Cu 327.393	253995.0	3895.80	1.53%	[2000.00]	ug/L
Fe 273.955	1092857.1	3699.12	0.34%	[40000]	ug/L
K 766.490	86172.5	771.95	0.90%	[40000]	ug/L
Mg 285.213	1919777.1	9559.72	0.50%	[100000]	ug/L
Mn 257.610	106168.1	1365.95	1.29%	[2000.00]	ug/L
Mo 202.031	90898.6	269.92	0.30%	[2000.00]	ug/L
Na 589.592	636760.6	2427.69	0.38%	[50000]	ug/L
Ni 231.604	138279.3	363.32	0.26%	[2000.00]	ug/L
P 213.617	75803.0	366.75	0.48%	[10000]	ug/L
Pb 220.353	32563.3	286.03	0.88%	[2000.00]	ug/L
Sb 206.836	12885.5	125.47	0.97%	[2000.00]	ug/L
Se 196.026	11531.2	81.83	0.71%	[2000.00]	ug/L
Sn 189.927	17075.2	232.38	1.36%	[2000.00]	ug/L
Sr 421.552	1915206.2	8835.13	0.46%	[2000.00]	ug/L
Ti 337.279	82381.7	831.61	1.01%	[2000.00]	ug/L
Tl 190.801	14026.6	160.52	1.14%	[2000.00]	ug/L
V 292.402	498531.6	1618.75	0.32%	[2000.00]	ug/L
Zn 206.200	200413.4	863.50	0.43%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	129.9	0.00000	0.999995	
Al 308.215	3	Lin Thru 0	0.0	1.669	0.00000	0.999978	
As 188.979	3	Lin Thru 0	0.0	5.577	0.00000	0.999988	
B	3	Lin Thru 0	0.0	4.085	0.00000	0.999993	
Ba 233.527	3	Lin Thru 0	0.0	172.3	0.00000	0.999963	
Be 313.107	3	Lin Thru 0	0.0	6686	0.00000	0.999893	
Ca 315.887	3	Lin Thru 0	0.0	12.37	0.00000	0.999996	
Cd 214.440	3	Lin Thru 0	0.0	401.8	0.00000	0.999897	
Co 228.616	3	Lin Thru 0	0.0	73.02	0.00000	0.999959	
Cr 267.716	3	Lin Thru 0	0.0	153.1	0.00000	0.999946	
Cu 327.393	3	Lin Thru 0	0.0	126.4	0.00000	0.999960	
Fe 273.955	3	Lin Thru 0	0.0	27.46	0.00000	0.999949	
K 766.490	3	Lin Thru 0	0.0	2.152	0.00000	0.999998	
Mg 285.213	3	Lin Thru 0	0.0	19.27	0.00000	0.999970	
Mn 257.610	3	Lin Thru 0	0.0	53.35	0.00000	0.999951	
Mo 202.031	3	Lin Thru 0	0.0	45.86	0.00000	0.999838	
Na 589.592	3	Lin Thru 0	0.0	12.74	0.00000	0.999999	
Ni 231.604	3	Lin Thru 0	0.0	69.57	0.00000	0.999924	
P 213.617	3	Lin Thru 0	0.0	7.645	0.00000	0.999857	
Pb 220.353	3	Lin Thru 0	0.0	16.40	0.00000	0.999898	
Sb 206.836	3	Lin Thru 0	0.0	6.449	0.00000	0.999998	
Se 196.026	3	Lin Thru 0	0.0	5.795	0.00000	0.999948	
Sn 189.927	3	Lin Thru 0	0.0	8.568	0.00000	0.999975	
Sr 421.552	3	Lin Thru 0	0.0	959.0	0.00000	0.999996	
Ti 337.279	3	Lin Thru 0	0.0	41.33	0.00000	0.999977	
Tl 190.801	3	Lin Thru 0	0.0	7.049	0.00000	0.999948	

V 292.402	3	Lin Thru 0	0.0	250.1	0.00000	0.999979
Zn 206.200	3	Lin Thru 0	0.0	100.9	0.00000	0.999898

Sequence No.: 5
Sample ID: ICV 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 12/05/12 9:57:09 AM
Data Type: Reprocessed on 12/06/12 10:12:25 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	66064.1	508.6	ug/L	12.37	508.6	ug/L	12.37	2.43%
QC value within limits for Ag 338.289 Recovery = 101.72%								
Al 308.215	41975.7	25160	ug/L	100.2	25160	ug/L	100.2	0.40%
QC value within limits for Al 308.215 Recovery = 100.65%								
As 188.979	5501.0	986.3	ug/L	9.71	986.3	ug/L	9.71	0.98%
QC value within limits for As 188.979 Recovery = 98.63%								
B	4050.1	1070	ug/L	10.6	1070	ug/L	10.6	0.99%
QC value within limits for B Recovery = 107.03%								
Ba 233.527	171624.2	982.4	ug/L	9.83	982.4	ug/L	9.83	1.00%
QC value within limits for Ba 233.527 Recovery = 98.24%								
Be 313.107	6803937.7	1018	ug/L	11.1	1018	ug/L	11.1	1.09%
QC value within limits for Be 313.107 Recovery = 101.77%								
Ca 315.887	310154.9	25060	ug/L	104.0	25060	ug/L	104.0	0.42%
QC value within limits for Ca 315.887 Recovery = 100.23%								
Cd 214.440	411058.9	1022	ug/L	11.3	1022	ug/L	11.3	1.11%
QC value within limits for Cd 214.440 Recovery = 102.25%								
Co 228.616	74490.1	1019	ug/L	10.3	1019	ug/L	10.3	1.01%
QC value within limits for Co 228.616 Recovery = 101.95%								
Cr 267.716	156889.3	1026	ug/L	12.5	1026	ug/L	12.5	1.22%
QC value within limits for Cr 267.716 Recovery = 102.56%								
Cu 327.393	124079.2	981.4	ug/L	7.21	981.4	ug/L	7.21	0.73%
QC value within limits for Cu 327.393 Recovery = 98.14%								
Fe 273.955	694637.1	25210	ug/L	268.9	25210	ug/L	268.9	1.07%
QC value within limits for Fe 273.955 Recovery = 100.85%								
K 766.490	52544.1	24400	ug/L	158.1	24400	ug/L	158.1	0.65%
QC value within limits for K 766.490 Recovery = 97.61%								
Mg 285.213	490192.7	25460	ug/L	127.4	25460	ug/L	127.4	0.50%
QC value within limits for Mg 285.213 Recovery = 101.85%								
Mn 257.610	55533.6	1041	ug/L	5.1	1041	ug/L	5.1	0.49%
QC value within limits for Mn 257.610 Recovery = 104.13%								
Mo 202.031	47918.6	1047	ug/L	7.6	1047	ug/L	7.6	0.73%
QC value within limits for Mo 202.031 Recovery = 104.75%								
Na 589.592	310660.6	24360	ug/L	121.7	24360	ug/L	121.7	0.50%
QC value within limits for Na 589.592 Recovery = 97.44%								
Ni 231.604	72797.9	1044	ug/L	11.2	1044	ug/L	11.2	1.08%
QC value within limits for Ni 231.604 Recovery = 104.44%								
P 213.617	37934.5	4962	ug/L	36.0	4962	ug/L	36.0	0.73%
QC value within limits for P 213.617 Recovery = 99.24%								
Pb 220.353	17185.4	1048	ug/L	5.3	1048	ug/L	5.3	0.50%
QC value within limits for Pb 220.353 Recovery = 104.80%								
Sb 206.836	6762.5	1049	ug/L	7.5	1049	ug/L	7.5	0.72%
QC value within limits for Sb 206.836 Recovery = 104.87%								
Se 196.026	5894.9	1028	ug/L	12.0	1028	ug/L	12.0	1.17%
QC value within limits for Se 196.026 Recovery = 102.82%								
Sn 189.927	4515.2	527.0	ug/L	3.77	527.0	ug/L	3.77	0.71%
QC value within limits for Sn 189.927 Recovery = 105.40%								
Sr 421.552	939727.4	979.6	ug/L	4.52	979.6	ug/L	4.52	0.46%
QC value within limits for Sr 421.552 Recovery = 97.96%								
Ti 337.279	38869.5	940.0	ug/L	7.92	940.0	ug/L	7.92	0.84%
QC value within limits for Ti 337.279 Recovery = 94.00%								
Tl 190.801	7143.7	1013	ug/L	10.7	1013	ug/L	10.7	1.06%
QC value within limits for Tl 190.801 Recovery = 101.34%								
V 292.402	252113.7	1026	ug/L	10.8	1026	ug/L	10.8	1.05%
QC value within limits for V 292.402 Recovery = 102.57%								
Zn 206.200	105528.2	1055	ug/L	9.7	1055	ug/L	9.7	0.92%
QC value within limits for Zn 206.200 Recovery = 105.51%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 10:00:53 AM
Data Type: Reprocessed on 12/06/12 10:12:26 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-31.2	-0.240	ug/L	0.1304	-0.240	ug/L	0.1304	54.33%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	16.5	9.866	ug/L	5.1303	9.866	ug/L	5.1303	52.00%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	1.5	0.266	ug/L	0.6967	0.266	ug/L	0.6967	261.98%
QC value within limits for As 188.979 Recovery = Not calculated								
B	50.2	12.29	ug/L	1.335	12.29	ug/L	1.335	10.86%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-0.6	-0.004	ug/L	0.0603	-0.004	ug/L	0.0603	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	30.5	0.005	ug/L	0.0226	0.005	ug/L	0.0226	495.04%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	20.2	1.630	ug/L	1.6390	1.630	ug/L	1.6390	100.55%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	42.7	0.107	ug/L	0.0600	0.107	ug/L	0.0600	56.22%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	1.3	0.019	ug/L	0.0989	0.019	ug/L	0.0989	525.80%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-17.0	-0.111	ug/L	0.0676	-0.111	ug/L	0.0676	60.96%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	55.6	0.440	ug/L	0.5493	0.440	ug/L	0.5493	124.98%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	21.7	0.784	ug/L	0.4356	0.784	ug/L	0.4356	55.53%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	138.8	64.47	ug/L	104.828	64.47	ug/L	104.828	162.59%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	35.9	1.861	ug/L	0.4357	1.861	ug/L	0.4357	23.41%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-2.8	-0.052	ug/L	0.1176	-0.052	ug/L	0.1176	225.89%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	25.4	0.554	ug/L	0.0857	0.554	ug/L	0.0857	15.47%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	51.8	4.037	ug/L	8.4698	4.037	ug/L	8.4698	209.80%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-24.9	-0.359	ug/L	0.0976	-0.359	ug/L	0.0976	27.20%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-0.5	-0.061	ug/L	0.9811	-0.061	ug/L	0.9811	>999.9%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	13.3	0.811	ug/L	0.7766	0.811	ug/L	0.7766	95.75%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	10.5	1.633	ug/L	0.8130	1.633	ug/L	0.8130	49.80%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-2.2	-0.374	ug/L	3.5161	-0.374	ug/L	3.5161	939.05%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	22.3	2.597	ug/L	0.3017	2.597	ug/L	0.3017	11.61%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	152.8	0.159	ug/L	0.2448	0.159	ug/L	0.2448	153.54%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	14.0	0.338	ug/L	0.2639	0.338	ug/L	0.2639	78.07%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	5.1	0.727	ug/L	0.4798	0.727	ug/L	0.4798	66.02%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	13.1	0.059	ug/L	0.4099	0.059	ug/L	0.4099	697.59%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-23.5	-0.232	ug/L	0.2315	-0.232	ug/L	0.2315	99.64%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 12/05/12 10:13:35 AM
Data Type: Reprocessed on 12/06/12 10:12:28 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	15.4	0.119	ug/L	0.4831	0.119	ug/L	0.4831	407.31%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	318154.2	190700	ug/L	3080.5	190700	ug/L	3080.5	1.62%
QC value within limits for Al 308.215 Recovery = 95.33%								
As 188.979	3.4	0.617	ug/L	0.3376	0.617	ug/L	0.3376	54.75%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2096.2	50.21	ug/L	9.819	50.21	ug/L	9.819	19.55%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	17554.0	0.115	ug/L	3.3435	0.115	ug/L	3.3435	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-860.8	-0.129	ug/L	0.0149	-0.129	ug/L	0.0149	11.61%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2383265.7	192600	ug/L	3182.5	192600	ug/L	3182.5	1.65%
QC value within limits for Ca 315.887 Recovery = 96.30%								
Cd 214.440	3633.5	-0.101	ug/L	0.1738	-0.101	ug/L	0.1738	171.65%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	296.5	-0.018	ug/L	0.4547	-0.018	ug/L	0.4547	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-60.5	0.160	ug/L	0.2606	0.160	ug/L	0.2606	163.00%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-186.0	-1.471	ug/L	0.4392	-1.471	ug/L	0.4392	29.86%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4891063.1	178100	ug/L	1967.6	178100	ug/L	1967.6	1.10%
QC value within limits for Fe 273.955 Recovery = 89.05%								
K 766.490	159.9	-39.15	ug/L	39.600	-39.15	ug/L	39.600	101.14%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3601480.7	187100	ug/L	2883.4	187100	ug/L	2883.4	1.54%
QC value within limits for Mg 285.213 Recovery = 93.54%								
Mn 257.610	-123.0	-1.321	ug/L	0.2889	-1.321	ug/L	0.2889	21.87%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-664.1	-0.990	ug/L	0.2686	-0.990	ug/L	0.2686	27.13%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	22.9	-42.75	ug/L	0.760	-42.75	ug/L	0.760	1.78%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	12.7	-0.015	ug/L	0.5502	-0.015	ug/L	0.5502	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-24.2	-3.170	ug/L	0.8768	-3.170	ug/L	0.8768	27.66%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	17.7	1.078	ug/L	0.9012	1.078	ug/L	0.9012	83.57%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	1.2	0.190	ug/L	0.7490	0.190	ug/L	0.7490	393.21%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-489.0	0.065	ug/L	3.5825	0.065	ug/L	3.5825	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-3.0	-0.354	ug/L	0.4843	-0.354	ug/L	0.4843	136.92%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2310.6	0.253	ug/L	0.0181	0.253	ug/L	0.0181	7.16%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	85.8	-1.278	ug/L	0.4213	-1.278	ug/L	0.4213	32.96%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-4.4	-0.618	ug/L	1.0503	-0.618	ug/L	1.0503	169.87%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	10699.5	-0.023	ug/L	0.7744	-0.023	ug/L	0.7744	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	774.7	-1.316	ug/L	0.5647	-1.316	ug/L	0.5647	42.90%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 12/05/12 10:18:14 AM
Data Type: Reprocessed on 12/06/12 10:12:29 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	129665.2	998.2	ug/L	10.14	998.2	ug/L	10.14	1.02%
QC value within limits for Ag 338.289 Recovery = 99.82%								
Al 308.215	317865.2	190500	ug/L	1164.2	190500	ug/L	1164.2	0.61%
QC value within limits for Al 308.215 Recovery = 95.24%								
As 188.979	2627.4	471.1	ug/L	0.70	471.1	ug/L	0.70	0.15%
QC value within limits for As 188.979 Recovery = 94.22%								
B	-2103.2	41.97	ug/L	12.197	41.97	ug/L	12.197	29.06%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	96267.0	458.3	ug/L	5.00	458.3	ug/L	5.00	1.09%
QC value within limits for Ba 233.527 Recovery = 91.67%								
Be 313.107	3095321.7	463.0	ug/L	2.90	463.0	ug/L	2.90	0.63%
QC value within limits for Be 313.107 Recovery = 92.59%								
Ca 315.887	2380835.7	192400	ug/L	1310.0	192400	ug/L	1310.0	0.68%
QC value within limits for Ca 315.887 Recovery = 96.20%								
Cd 214.440	367860.7	906.7	ug/L	8.39	906.7	ug/L	8.39	0.93%
QC value within limits for Cd 214.440 Recovery = 90.67%								
Co 228.616	33206.2	451.6	ug/L	5.28	451.6	ug/L	5.28	1.17%
QC value within limits for Co 228.616 Recovery = 90.32%								
Cr 267.716	70615.2	462.2	ug/L	2.95	462.2	ug/L	2.95	0.64%
QC value within limits for Cr 267.716 Recovery = 92.43%								
Cu 327.393	58801.6	465.1	ug/L	6.08	465.1	ug/L	6.08	1.31%
QC value within limits for Cu 327.393 Recovery = 93.01%								
Fe 273.955	4841411.2	176300	ug/L	893.8	176300	ug/L	893.8	0.51%
QC value within limits for Fe 273.955 Recovery = 88.13%								
K 766.490	245.2	0.230	ug/L	67.2082	0.230	ug/L	67.2082	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3604298.1	187200	ug/L	1139.2	187200	ug/L	1139.2	0.61%
QC value within limits for Mg 285.213 Recovery = 93.61%								
Mn 257.610	25165.1	472.7	ug/L	4.75	472.7	ug/L	4.75	1.01%
QC value within limits for Mn 257.610 Recovery = 94.53%								
Mo 202.031	21210.4	476.2	ug/L	1.41	476.2	ug/L	1.41	0.30%
QC value within limits for Mo 202.031 Recovery = 95.24%								
Na 589.592	238.4	-27.47	ug/L	16.403	-27.47	ug/L	16.403	59.71%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	63667.6	914.1	ug/L	8.85	914.1	ug/L	8.85	0.97%
QC value within limits for Ni 231.604 Recovery = 91.41%								
P 213.617	-4.2	-0.555	ug/L	2.0106	-0.555	ug/L	2.0106	362.13%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	15434.3	941.2	ug/L	1.55	941.2	ug/L	1.55	0.16%
QC value within limits for Pb 220.353 Recovery = 94.12%								
Sb 206.836	3086.6	478.6	ug/L	1.56	478.6	ug/L	1.56	0.33%
QC value within limits for Sb 206.836 Recovery = 95.73%								
Se 196.026	2269.0	474.9	ug/L	4.84	474.9	ug/L	4.84	1.02%
QC value within limits for Se 196.026 Recovery = 94.98%								
Sn 189.927	-6.2	-0.718	ug/L	1.2353	-0.718	ug/L	1.2353	171.94%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2107.0	0.053	ug/L	0.1517	0.053	ug/L	0.1517	285.31%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	88.5	-1.163	ug/L	0.5253	-1.163	ug/L	0.5253	45.19%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3237.1	459.2	ug/L	1.59	459.2	ug/L	1.59	0.35%
QC value within limits for Tl 190.801 Recovery = 91.85%								
V 292.402	128337.1	481.9	ug/L	4.10	481.9	ug/L	4.10	0.85%
QC value within limits for V 292.402 Recovery = 96.38%								
Zn 206.200	92651.5	913.8	ug/L	9.56	913.8	ug/L	9.56	1.05%
QC value within limits for Zn 206.200 Recovery = 91.38%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 10:22:52 AM
Data Type: Reprocessed on 12/06/12 10:12:30 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	64611.6	497.4	ug/L	6.13	497.4	ug/L	6.13	1.23%
QC value within limits for Ag 338.289 Recovery = 99.48%								
Al 308.215	34352.1	20590	ug/L	165.6	20590	ug/L	165.6	0.80%
QC value within limits for Al 308.215 Recovery = 102.97%								
As 188.979	5775.3	1035	ug/L	8.9	1035	ug/L	8.9	0.86%
QC value within limits for As 188.979 Recovery = 103.55%								
B	4192.0	1089	ug/L	11.7	1089	ug/L	11.7	1.07%
QC value within limits for B Recovery = 108.89%								
Ba 233.527	177032.9	1016	ug/L	9.8	1016	ug/L	9.8	0.97%
QC value within limits for Ba 233.527 Recovery = 101.64%								
Be 313.107	6967074.4	1042	ug/L	7.3	1042	ug/L	7.3	0.70%
QC value within limits for Be 313.107 Recovery = 104.21%								
Ca 315.887	635336.1	51340	ug/L	251.0	51340	ug/L	251.0	0.49%
QC value within limits for Ca 315.887 Recovery = 102.68%								
Cd 214.440	421274.0	1048	ug/L	10.2	1048	ug/L	10.2	0.98%
QC value within limits for Cd 214.440 Recovery = 104.81%								
Co 228.616	75402.9	1032	ug/L	10.4	1032	ug/L	10.4	1.01%
QC value within limits for Co 228.616 Recovery = 103.18%								
Cr 267.716	157760.8	1031	ug/L	10.7	1031	ug/L	10.7	1.04%
QC value within limits for Cr 267.716 Recovery = 103.10%								
Cu 327.393	124760.9	986.7	ug/L	16.26	986.7	ug/L	16.26	1.65%
QC value within limits for Cu 327.393 Recovery = 98.67%								
Fe 273.955	567043.1	20560	ug/L	202.1	20560	ug/L	202.1	0.98%
QC value within limits for Fe 273.955 Recovery = 102.82%								
K 766.490	43613.2	20250	ug/L	243.1	20250	ug/L	243.1	1.20%
QC value within limits for K 766.490 Recovery = 101.23%								
Mg 285.213	993368.3	51570	ug/L	224.0	51570	ug/L	224.0	0.43%
QC value within limits for Mg 285.213 Recovery = 103.13%								
Mn 257.610	55659.6	1042	ug/L	11.8	1042	ug/L	11.8	1.14%
QC value within limits for Mn 257.610 Recovery = 104.22%								
Mo 202.031	48449.7	1059	ug/L	10.1	1059	ug/L	10.1	0.96%
QC value within limits for Mo 202.031 Recovery = 105.86%								
Na 589.592	321804.6	25230	ug/L	105.5	25230	ug/L	105.5	0.42%
QC value within limits for Na 589.592 Recovery = 100.93%								
Ni 231.604	72491.6	1040	ug/L	11.4	1040	ug/L	11.4	1.10%
QC value within limits for Ni 231.604 Recovery = 103.99%								
P 213.617	40775.1	5334	ug/L	31.0	5334	ug/L	31.0	0.58%
QC value within limits for P 213.617 Recovery = 106.67%								
Pb 220.353	17427.6	1063	ug/L	7.0	1063	ug/L	7.0	0.66%
QC value within limits for Pb 220.353 Recovery = 106.28%								
Sb 206.836	6618.8	1026	ug/L	9.1	1026	ug/L	9.1	0.89%
QC value within limits for Sb 206.836 Recovery = 102.64%								
Se 196.026	6092.8	1059	ug/L	2.8	1059	ug/L	2.8	0.26%
QC value within limits for Se 196.026 Recovery = 105.92%								
Sn 189.927	8939.0	1043	ug/L	7.2	1043	ug/L	7.2	0.69%
QC value within limits for Sn 189.927 Recovery = 104.33%								
Sr 421.552	967145.0	1008	ug/L	6.0	1008	ug/L	6.0	0.60%
QC value within limits for Sr 421.552 Recovery = 100.81%								
Ti 337.279	42402.1	1025	ug/L	10.1	1025	ug/L	10.1	0.99%
QC value within limits for Ti 337.279 Recovery = 102.51%								
Tl 190.801	7407.0	1051	ug/L	14.2	1051	ug/L	14.2	1.35%
QC value within limits for Tl 190.801 Recovery = 105.08%								
V 292.402	254597.0	1037	ug/L	9.4	1037	ug/L	9.4	0.91%
QC value within limits for V 292.402 Recovery = 103.69%								
Zn 206.200	106409.4	1064	ug/L	11.6	1064	ug/L	11.6	1.09%
QC value within limits for Zn 206.200 Recovery = 106.43%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 10:26:35 AM
Data Type: Reprocessed on 12/06/12 10:12:31 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	38.7	0.298	ug/L	1.5262	0.298	ug/L	1.5262	511.98%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	32.9	19.70	ug/L	1.099	19.70	ug/L	1.099	5.58%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	3.7	0.660	ug/L	1.3233	0.660	ug/L	1.3233	200.65%
QC value within limits for As 188.979 Recovery = Not calculated								
B	34.7	8.511	ug/L	1.3629	8.511	ug/L	1.3629	16.01%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	23.9	0.137	ug/L	0.0349	0.137	ug/L	0.0349	25.47%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-182.0	-0.027	ug/L	0.0246	-0.027	ug/L	0.0246	90.27%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	83.6	6.758	ug/L	1.3570	6.758	ug/L	1.3570	20.08%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	41.1	0.103	ug/L	0.0224	0.103	ug/L	0.0224	21.84%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	10.6	0.148	ug/L	0.3560	0.148	ug/L	0.3560	240.88%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-2.4	-0.015	ug/L	0.0728	-0.015	ug/L	0.0728	474.88%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	19.3	0.152	ug/L	1.5648	0.152	ug/L	1.5648	>999.9%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	66.4	2.415	ug/L	0.5099	2.415	ug/L	0.5099	21.12%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-31.3	-14.53	ug/L	63.265	-14.53	ug/L	63.265	435.50%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	64.6	3.355	ug/L	1.0394	3.355	ug/L	1.0394	30.98%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	1.2	0.023	ug/L	0.1426	0.023	ug/L	0.1426	615.99%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	23.6	0.514	ug/L	0.1563	0.514	ug/L	0.1563	30.39%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-11.6	-0.911	ug/L	6.1586	-0.911	ug/L	6.1586	676.33%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-26.2	-0.377	ug/L	0.1057	-0.377	ug/L	0.1057	28.05%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	1.3	0.172	ug/L	0.5765	0.172	ug/L	0.5765	335.71%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	23.6	1.440	ug/L	0.8979	1.440	ug/L	0.8979	62.37%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	8.3	1.292	ug/L	0.6071	1.292	ug/L	0.6071	47.00%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	0.8	0.146	ug/L	2.6049	0.146	ug/L	2.6049	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	15.4	1.802	ug/L	1.1195	1.802	ug/L	1.1195	62.12%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	194.8	0.203	ug/L	0.1564	0.203	ug/L	0.1564	77.01%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-13.4	-0.325	ug/L	0.0572	-0.325	ug/L	0.0572	17.61%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2.2	0.306	ug/L	0.5000	0.306	ug/L	0.5000	163.37%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	4.5	0.025	ug/L	0.4778	0.025	ug/L	0.4778	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-65.4	-0.648	ug/L	0.1116	-0.648	ug/L	0.1116	17.22%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 57
Sample ID: CCV1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 2:03:31 PM
Data Type: Reprocessed on 12/06/12 10:13:18 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	63646.9	490.0	ug/L	3.70	490.0	ug/L	3.70	0.75%
QC value within limits for Ag 338.289 Recovery = 98.00%								
Al 308.215	34860.9	20900	ug/L	270.1	20900	ug/L	270.1	1.29%
QC value within limits for Al 308.215 Recovery = 104.49%								
As 188.979	5626.9	1009	ug/L	5.0	1009	ug/L	5.0	0.49%
QC value within limits for As 188.979 Recovery = 100.89%								
B	4154.7	1080	ug/L	16.5	1080	ug/L	16.5	1.53%
QC value within limits for B Recovery = 107.96%								
Ba 233.527	177035.8	1016	ug/L	6.6	1016	ug/L	6.6	0.65%
QC value within limits for Ba 233.527 Recovery = 101.64%								
Be 313.107	6885335.8	1030	ug/L	8.3	1030	ug/L	8.3	0.80%
QC value within limits for Be 313.107 Recovery = 102.98%								
Ca 315.887	654581.3	52900	ug/L	618.3	52900	ug/L	618.3	1.17%
QC value within limits for Ca 315.887 Recovery = 105.79%								
Cd 214.440	417884.1	1040	ug/L	6.8	1040	ug/L	6.8	0.65%
QC value within limits for Cd 214.440 Recovery = 103.97%								
Co 228.616	75298.7	1030	ug/L	6.4	1030	ug/L	6.4	0.62%
QC value within limits for Co 228.616 Recovery = 103.03%								
Cr 267.716	157332.4	1028	ug/L	5.8	1028	ug/L	5.8	0.57%
QC value within limits for Cr 267.716 Recovery = 102.82%								
Cu 327.393	123204.9	974.4	ug/L	10.73	974.4	ug/L	10.73	1.10%
QC value within limits for Cu 327.393 Recovery = 97.44%								
Fe 273.955	566468.5	20540	ug/L	130.3	20540	ug/L	130.3	0.63%
QC value within limits for Fe 273.955 Recovery = 102.72%								
K 766.490	44322.7	20570	ug/L	304.8	20570	ug/L	304.8	1.48%
QC value within limits for K 766.490 Recovery = 102.87%								
Mg 285.213	1018504.8	52870	ug/L	471.7	52870	ug/L	471.7	0.89%
QC value within limits for Mg 285.213 Recovery = 105.74%								
Mn 257.610	56248.8	1053	ug/L	17.7	1053	ug/L	17.7	1.68%
QC value within limits for Mn 257.610 Recovery = 105.32%								
Mo 202.031	47668.4	1042	ug/L	6.5	1042	ug/L	6.5	0.63%
QC value within limits for Mo 202.031 Recovery = 104.15%								
Na 589.592	324715.9	25460	ug/L	247.0	25460	ug/L	247.0	0.97%
QC value within limits for Na 589.592 Recovery = 101.85%								
Ni 231.604	71878.7	1031	ug/L	6.7	1031	ug/L	6.7	0.65%
QC value within limits for Ni 231.604 Recovery = 103.11%								
P 213.617	39590.0	5179	ug/L	40.2	5179	ug/L	40.2	0.78%
QC value within limits for P 213.617 Recovery = 103.57%								
Pb 220.353	17010.2	1037	ug/L	12.6	1037	ug/L	12.6	1.21%
QC value within limits for Pb 220.353 Recovery = 103.73%								
Sb 206.836	6539.4	1014	ug/L	15.1	1014	ug/L	15.1	1.49%
QC value within limits for Sb 206.836 Recovery = 101.41%								
Se 196.026	5932.3	1031	ug/L	9.2	1031	ug/L	9.2	0.89%
QC value within limits for Se 196.026 Recovery = 103.14%								
Sn 189.927	8962.3	1046	ug/L	16.0	1046	ug/L	16.0	1.52%
QC value within limits for Sn 189.927 Recovery = 104.60%								
Sr 421.552	990521.5	1032	ug/L	9.9	1032	ug/L	9.9	0.96%
QC value within limits for Sr 421.552 Recovery = 103.25%								
Ti 337.279	43369.2	1049	ug/L	15.6	1049	ug/L	15.6	1.49%
QC value within limits for Ti 337.279 Recovery = 104.85%								
Tl 190.801	7173.6	1018	ug/L	9.0	1018	ug/L	9.0	0.88%
QC value within limits for Tl 190.801 Recovery = 101.77%								
V 292.402	255198.4	1039	ug/L	6.4	1039	ug/L	6.4	0.62%
QC value within limits for V 292.402 Recovery = 103.90%								
Zn 206.200	105436.0	1055	ug/L	7.7	1055	ug/L	7.7	0.73%
QC value within limits for Zn 206.200 Recovery = 105.46%								

All analyte(s) passed QC.

Sequence No.: 58
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 2:07:14 PM
Data Type: Reprocessed on 12/06/12 10:13:19 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	39.4	0.304	ug/L	0.3595	0.304	ug/L	0.3595	118.37%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	13.4	8.026	ug/L	0.5891	8.026	ug/L	0.5891	7.34%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.2	1.288	ug/L	0.1786	1.288	ug/L	0.1786	13.86%
QC value within limits for As 188.979 Recovery = Not calculated								
B	25.6	6.269	ug/L	4.4722	6.269	ug/L	4.4722	71.33%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	8.5	0.048	ug/L	0.0932	0.048	ug/L	0.0932	195.94%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-396.7	-0.059	ug/L	0.0163	-0.059	ug/L	0.0163	27.55%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	64.0	5.168	ug/L	1.4265	5.168	ug/L	1.4265	27.60%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	4.5	0.012	ug/L	0.0260	0.012	ug/L	0.0260	222.63%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	15.2	0.211	ug/L	0.1224	0.211	ug/L	0.1224	58.03%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-20.2	-0.132	ug/L	0.1634	-0.132	ug/L	0.1634	123.79%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	163.9	1.296	ug/L	1.4512	1.296	ug/L	1.4512	111.95%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	50.3	1.838	ug/L	0.9338	1.838	ug/L	0.9338	50.81%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	56.8	26.36	ug/L	57.722	26.36	ug/L	57.722	218.95%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	36.9	1.914	ug/L	0.2550	1.914	ug/L	0.2550	13.32%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-1.1	-0.020	ug/L	0.1791	-0.020	ug/L	0.1791	893.93%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	33.6	0.733	ug/L	0.2712	0.733	ug/L	0.2712	37.01%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-145.3	-11.42	ug/L	9.986	-11.42	ug/L	9.986	87.46%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-27.2	-0.392	ug/L	0.1401	-0.392	ug/L	0.1401	35.71%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-8.2	-1.071	ug/L	1.6421	-1.071	ug/L	1.6421	153.29%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	12.4	0.754	ug/L	0.9358	0.754	ug/L	0.9358	124.05%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	4.3	0.660	ug/L	0.6797	0.660	ug/L	0.6797	102.98%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-0.1	-0.011	ug/L	0.9415	-0.011	ug/L	0.9415	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	5.5	0.641	ug/L	0.7443	0.641	ug/L	0.7443	116.17%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	380.2	0.396	ug/L	0.0785	0.396	ug/L	0.0785	19.79%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-11.3	-0.274	ug/L	0.4417	-0.274	ug/L	0.4417	160.94%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.9	1.256	ug/L	0.5162	1.256	ug/L	0.5162	41.09%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-22.9	-0.083	ug/L	0.8423	-0.083	ug/L	0.8423	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-109.2	-1.083	ug/L	0.0881	-1.083	ug/L	0.0881	8.14%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 68
Sample ID: CCV2 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 12/05/12 3:23:33 PM
Data Type: Reprocessed on 12/06/12 10:13:29 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	49907.2	384.2	ug/L	3.08	384.2	ug/L	3.08	0.80%
QC value within limits for Ag 338.289 Recovery = 102.46%								
Al 308.215	27614.1	16550	ug/L	109.9	16550	ug/L	109.9	0.66%
QC value within limits for Al 308.215 Recovery = 110.36%								
As 188.979	4403.6	789.6	ug/L	2.89	789.6	ug/L	2.89	0.37%
QC value within limits for As 188.979 Recovery = 105.27%								
B	3241.6	841.4	ug/L	8.14	841.4	ug/L	8.14	0.97%
QC value greater than the upper limit for B Recovery = 112.19%								
Ba 233.527	136166.3	781.8	ug/L	4.40	781.8	ug/L	4.40	0.56%
QC value within limits for Ba 233.527 Recovery = 104.24%								
Be 313.107	5355865.3	801.1	ug/L	1.80	801.1	ug/L	1.80	0.22%
QC value within limits for Be 313.107 Recovery = 106.81%								
Ca 315.887	525429.4	42460	ug/L	482.2	42460	ug/L	482.2	1.14%
QC value greater than the upper limit for Ca 315.887 Recovery = 113.23%								
Cd 214.440	323283.8	804.3	ug/L	5.75	804.3	ug/L	5.75	0.72%
QC value within limits for Cd 214.440 Recovery = 107.24%								
Co 228.616	58251.2	796.9	ug/L	6.49	796.9	ug/L	6.49	0.81%
QC value within limits for Co 228.616 Recovery = 106.25%								
Cr 267.716	120502.7	787.4	ug/L	5.05	787.4	ug/L	5.05	0.64%
QC value within limits for Cr 267.716 Recovery = 104.99%								
Cu 327.393	96635.1	764.3	ug/L	5.26	764.3	ug/L	5.26	0.69%
QC value within limits for Cu 327.393 Recovery = 101.91%								
Fe 273.955	435527.5	15800	ug/L	101.7	15800	ug/L	101.7	0.64%
QC value within limits for Fe 273.955 Recovery = 105.30%								
K 766.490	34725.1	16120	ug/L	223.3	16120	ug/L	223.3	1.39%
QC value within limits for K 766.490 Recovery = 107.46%								
Mg 285.213	810383.6	42070	ug/L	399.5	42070	ug/L	399.5	0.95%
QC value greater than the upper limit for Mg 285.213 Recovery = 112.18%								
Mn 257.610	44266.7	828.8	ug/L	3.46	828.8	ug/L	3.46	0.42%
QC value greater than the upper limit for Mn 257.610 Recovery = 110.50%								
Mo 202.031	35951.2	785.5	ug/L	4.03	785.5	ug/L	4.03	0.51%
QC value within limits for Mo 202.031 Recovery = 104.74%								
Na 589.592	256184.3	20090	ug/L	210.1	20090	ug/L	210.1	1.05%
QC value within limits for Na 589.592 Recovery = 107.14%								
Ni 231.604	55559.4	797.0	ug/L	4.74	797.0	ug/L	4.74	0.59%
QC value within limits for Ni 231.604 Recovery = 106.27%								
P 213.617	30641.4	4008	ug/L	48.1	4008	ug/L	48.1	1.20%
QC value within limits for P 213.617 Recovery = 106.88%								
Pb 220.353	13198.5	804.9	ug/L	1.58	804.9	ug/L	1.58	0.20%
QC value within limits for Pb 220.353 Recovery = 107.31%								
Sb 206.836	5197.2	805.9	ug/L	1.07	805.9	ug/L	1.07	0.13%
QC value within limits for Sb 206.836 Recovery = 107.46%								
Se 196.026	4628.2	804.4	ug/L	1.79	804.4	ug/L	1.79	0.22%
QC value within limits for Se 196.026 Recovery = 107.26%								
Sn 189.927	6734.6	786.0	ug/L	4.24	786.0	ug/L	4.24	0.54%
QC value within limits for Sn 189.927 Recovery = 104.80%								
Sr 421.552	791082.4	824.6	ug/L	6.75	824.6	ug/L	6.75	0.82%
QC value within limits for Sr 421.552 Recovery = 109.95%								
Ti 337.279	35144.1	849.7	ug/L	6.17	849.7	ug/L	6.17	0.73%
QC value greater than the upper limit for Ti 337.279 Recovery = 113.29%								
Tl 190.801	5664.6	803.6	ug/L	0.91	803.6	ug/L	0.91	0.11%
QC value within limits for Tl 190.801 Recovery = 107.15%								
V 292.402	195315.9	795.0	ug/L	4.80	795.0	ug/L	4.80	0.60%
QC value within limits for V 292.402 Recovery = 106.00%								
Zn 206.200	81083.5	811.0	ug/L	5.13	811.0	ug/L	5.13	0.63%
QC value within limits for Zn 206.200 Recovery = 108.14%								

QC Failed. Continue with analysis.

Sequence No.: 69
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 12/05/12 3:29:31 PM
Data Type: Reprocessed on 12/06/12 10:13:30 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	62.2	0.479	ug/L	1.0880	0.479	ug/L	1.0880	227.23%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	27.9	16.70	ug/L	10.779	16.70	ug/L	10.779	64.56%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.1	0.742	ug/L	0.7184	0.742	ug/L	0.7184	96.81%
QC value within limits for As 188.979 Recovery = Not calculated								
B	49.9	12.20	ug/L	2.788	12.20	ug/L	2.788	22.85%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-5.8	-0.032	ug/L	0.0387	-0.032	ug/L	0.0387	119.24%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	63.0	0.009	ug/L	0.0140	0.009	ug/L	0.0140	148.20%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	1133.4	91.61	ug/L	10.182	91.61	ug/L	10.182	11.12%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	27.1	0.068	ug/L	0.0045	0.068	ug/L	0.0045	6.61%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-22.8	-0.310	ug/L	0.0801	-0.310	ug/L	0.0801	25.79%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-64.6	-0.422	ug/L	0.1703	-0.422	ug/L	0.1703	40.37%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	173.2	1.370	ug/L	0.6923	1.370	ug/L	0.6923	50.53%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	-62.3	-2.296	ug/L	0.5395	-2.296	ug/L	0.5395	23.50%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	122.4	56.85	ug/L	69.716	56.85	ug/L	69.716	122.62%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	76.2	3.950	ug/L	0.4022	3.950	ug/L	0.4022	10.18%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	2.0	0.037	ug/L	0.0844	0.037	ug/L	0.0844	228.85%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	25.2	0.549	ug/L	0.0433	0.549	ug/L	0.0433	7.89%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	453.5	35.56	ug/L	7.229	35.56	ug/L	7.229	20.33%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	7.3	0.105	ug/L	0.1912	0.105	ug/L	0.1912	182.73%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	241.9	31.65	ug/L	2.975	31.65	ug/L	2.975	9.40%
QC value greater than the upper limit for P 213.617 Recovery = Not calculated								
Pb 220.353	18.2	1.108	ug/L	0.3606	1.108	ug/L	0.3606	32.55%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	9.5	1.467	ug/L	0.3285	1.467	ug/L	0.3285	22.40%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	2.3	0.398	ug/L	0.9907	0.398	ug/L	0.9907	249.03%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	2.8	0.327	ug/L	0.7159	0.327	ug/L	0.7159	219.03%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	245.9	0.256	ug/L	0.1004	0.256	ug/L	0.1004	39.22%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-4.8	-0.116	ug/L	0.2166	-0.116	ug/L	0.2166	186.87%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	7.0	0.997	ug/L	0.1680	0.997	ug/L	0.1680	16.85%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	79.8	0.323	ug/L	0.0453	0.323	ug/L	0.0453	14.00%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-111.5	-1.107	ug/L	0.0982	-1.107	ug/L	0.0982	8.87%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

METALS
Raw Data

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METALS BLANK

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908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/05/12	12/05/12	#6010B-121205A-AY72370
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/28/12	11/28/12	#6010B-121128B-AY72102

Sequence No.: 34
Sample ID: 121128B-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 42
Date Collected: 11/28/12 6:41:25 PM
Data Type: Reprocessed on 11/29/12 2:04:35 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121128B-3050-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-38.4	-0.345	ug/L	0.9396	-0.014	mg/kg	0.0376	272.39%
Al 308.215	-19.7	-13.80	ug/L	0.805	-0.552	mg/kg	0.0322	5.83%
As 188.979	4.6	1.109	ug/L	1.0698	0.044	mg/kg	0.0428	96.49%
B	26.2	8.911	ug/L	1.0631	0.356	mg/kg	0.0425	11.93%
Ba 233.527	20.1	0.138	ug/L	0.0377	0.006	mg/kg	0.0015	27.28%
Be 313.107	-270.7	-0.051	ug/L	0.0109	-0.002	mg/kg	0.0004	21.31%
Ca 315.887	200.6	19.86	ug/L	2.001	0.794	mg/kg	0.0800	10.08%
Cd 214.440	145.0	0.472	ug/L	0.0516	0.019	mg/kg	0.0021	10.93%
Co 228.616	25.9	0.447	ug/L	0.1848	0.018	mg/kg	0.0074	41.33%
Cr 267.716	94.5	0.746	ug/L	0.0143	0.030	mg/kg	0.0006	1.92%
Cu 327.393	261.2	2.906	ug/L	0.6563	0.116	mg/kg	0.0263	22.58%
Fe 273.955	-35.5	-1.479	ug/L	0.3589	-0.059	mg/kg	0.0144	24.26%
K 766.490	180.6	100.2	ug/L	58.53	4.010	mg/kg	2.3412	58.38%
Mg 285.213	28.8	1.823	ug/L	1.0739	0.073	mg/kg	0.0430	58.91%
Mn 257.610	27.7	0.636	ug/L	0.1116	0.025	mg/kg	0.0045	17.54%
Mo 202.031	89.0	2.289	ug/L	0.1568	0.092	mg/kg	0.0063	6.85%
Na 589.592	4847.6	459.5	ug/L	49.53	18.38	mg/kg	1.981	10.78%
Ni 231.604	-134.5	-2.434	ug/L	0.4264	-0.097	mg/kg	0.0171	17.52%
P 213.617	131.8	23.87	ug/L	0.591	0.955	mg/kg	0.0236	2.48%
Pb 220.353	-52.7	-4.018	ug/L	0.8476	-0.161	mg/kg	0.0339	21.10%
Sb 206.836	1.6	0.314	ug/L	1.3523	0.013	mg/kg	0.0541	431.32%
Se 196.026	6.7	1.605	ug/L	1.2322	0.064	mg/kg	0.0493	76.80%
Sn 189.927	-11.0	-1.641	ug/L	0.4492	-0.066	mg/kg	0.0180	27.37%
Sr 421.552	134.4	0.160	ug/L	0.1449	0.006	mg/kg	0.0058	90.79%
Ti 337.279	21.4	0.603	ug/L	0.1323	0.024	mg/kg	0.0053	21.93%
Tl 190.801	-6.2	-1.067	ug/L	0.5298	-0.043	mg/kg	0.0212	49.66%
V 292.402	-184.2	-0.831	ug/L	0.3309	-0.033	mg/kg	0.0132	39.81%
Zn 206.200	-21.2	-0.267	ug/L	0.0777	-0.011	mg/kg	0.0031	29.09%

Sequence No.: 59
Sample ID: 121205A-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 134
Date Collected: 12/05/12 2:12:11 PM
Data Type: Reprocessed on 12/06/12 10:13:20 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121205A-3050-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-72.2	-0.556	ug/L	0.5072	-0.022	mg/kg	0.0203	91.25%
Al 308.215	12.2	7.256	ug/L	3.5931	0.290	mg/kg	0.1437	49.52%
As 188.979	4.6	0.822	ug/L	1.2092	0.033	mg/kg	0.0484	147.14%
B	27.8	6.798	ug/L	2.9508	0.272	mg/kg	0.1180	43.41%
Ba 233.527	34.0	0.196	ug/L	0.0731	0.008	mg/kg	0.0029	37.27%
Be 313.107	-458.6	-0.069	ug/L	0.0119	-0.003	mg/kg	0.0005	17.37%
Ca 315.887	496.9	40.15	ug/L	0.953	1.606	mg/kg	0.0381	2.37%
Cd 214.440	113.4	0.284	ug/L	0.0570	0.011	mg/kg	0.0023	20.11%
Co 228.616	1.4	0.023	ug/L	0.3534	0.001	mg/kg	0.0141	>999.9%
Cr 267.716	99.2	0.647	ug/L	0.1586	0.026	mg/kg	0.0063	24.51%
Cu 327.393	178.0	1.408	ug/L	1.0689	0.056	mg/kg	0.0428	75.91%
Fe 273.955	10.5	0.387	ug/L	0.8541	0.015	mg/kg	0.0342	220.67%
K 766.490	78.0	36.23	ug/L	57.886	1.449	mg/kg	2.3154	159.77%
Mg 285.213	42.8	2.219	ug/L	0.6536	0.089	mg/kg	0.0261	29.45%
Mn 257.610	21.1	0.395	ug/L	0.1938	0.016	mg/kg	0.0078	49.09%
Mo 202.031	67.0	1.461	ug/L	0.2579	0.058	mg/kg	0.0103	17.65%
Na 589.592	231.4	18.14	ug/L	1.451	0.725	mg/kg	0.0580	8.00%
Ni 231.604	-91.7	-1.318	ug/L	0.1020	-0.053	mg/kg	0.0041	7.74%
P 213.617	84.5	11.06	ug/L	1.107	0.442	mg/kg	0.0443	10.01%
Pb 220.353	-28.2	-1.718	ug/L	0.1411	-0.069	mg/kg	0.0056	8.21%
Sb 206.836	-2.8	-0.427	ug/L	0.7139	-0.017	mg/kg	0.0286	167.33%
Se 196.026	3.4	0.578	ug/L	2.7728	0.023	mg/kg	0.1109	479.50%
Sn 189.927	-5.5	-0.644	ug/L	0.3251	-0.026	mg/kg	0.0130	50.51%
Sr 421.552	260.2	0.271	ug/L	0.1835	0.011	mg/kg	0.0073	67.69%
Ti 337.279	1.5	0.036	ug/L	0.5071	0.001	mg/kg	0.0203	>999.9%
Tl 190.801	-4.2	-0.594	ug/L	0.6477	-0.024	mg/kg	0.0259	108.95%
V 292.402	-33.0	-0.105	ug/L	0.1573	-0.004	mg/kg	0.0063	149.42%
Zn 206.200	106.3	1.061	ug/L	0.1474	0.042	mg/kg	0.0059	13.89%

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	11.1	111	80-120	11/28/12	11/28/12	#6010B-121128B-AY72102

Comments: _____

Sequence No.: 35
Sample ID: 121128B-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 43
Date Collected: 11/28/12 6:45:46 PM
Data Type: Reprocessed on 11/29/12 2:04:36 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121128B-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	11757.7	105.6	ug/L	3.20	4.224	mg/kg	0.1279	3.03%
Al 308.215	3064.2	2130	ug/L	19.5	85.22	mg/kg	0.778	0.91%
As 188.979	1091.5	265.4	ug/L	1.20	10.62	mg/kg	0.048	0.45%
B	853.3	292.0	ug/L	1.97	11.68	mg/kg	0.079	0.68%
Ba 233.527	39449.4	273.1	ug/L	4.43	10.93	mg/kg	0.177	1.62%
Be 313.107	296215.0	55.95	ug/L	1.311	2.238	mg/kg	0.0524	2.34%
Ca 315.887	282236.9	27990	ug/L	372.7	1120	mg/kg	14.9	1.33%
Cd 214.440	17309.2	56.17	ug/L	0.276	2.247	mg/kg	0.0110	0.49%
Co 228.616	16821.3	287.1	ug/L	0.91	11.48	mg/kg	0.036	0.32%
Cr 267.716	37237.9	294.7	ug/L	4.99	11.79	mg/kg	0.200	1.69%
Cu 327.393	25270.9	281.2	ug/L	7.22	11.25	mg/kg	0.289	2.57%
Fe 273.955	25904.4	1101	ug/L	4.9	44.03	mg/kg	0.195	0.44%
K 766.490	9716.5	5387	ug/L	134.3	215.5	mg/kg	5.37	2.49%
Mg 285.213	422730.7	26870	ug/L	362.0	1075	mg/kg	14.5	1.35%
Mn 257.610	12858.7	293.9	ug/L	1.55	11.76	mg/kg	0.062	0.53%
Mo 202.031	11541.3	297.2	ug/L	0.90	11.89	mg/kg	0.036	0.30%
Na 589.592	291199.1	27600	ug/L	349.1	1104	mg/kg	14.0	1.26%
Ni 231.604	15931.9	287.7	ug/L	1.43	11.51	mg/kg	0.057	0.50%
P 213.617	11964.9	2167	ug/L	8.3	86.67	mg/kg	0.333	0.38%
Pb 220.353	3644.5	277.8	ug/L	0.27	11.11	mg/kg	0.011	0.10%
Sb 206.836	1382.2	265.5	ug/L	1.76	10.62	mg/kg	0.071	0.66%
Se 196.026	1072.6	257.8	ug/L	2.76	10.31	mg/kg	0.110	1.07%
Sn 189.927	1988.6	298.0	ug/L	1.39	11.92	mg/kg	0.056	0.47%
Sr 421.552	232699.5	277.0	ug/L	3.44	11.08	mg/kg	0.138	1.24%
Ti 337.279	10178.4	286.2	ug/L	1.43	11.45	mg/kg	0.057	0.50%
Tl 190.801	1544.4	266.1	ug/L	1.67	10.64	mg/kg	0.067	0.63%
V 292.402	61518.4	296.8	ug/L	5.12	11.87	mg/kg	0.205	1.72%
Zn 206.200	42685.6	568.8	ug/L	9.11	22.75	mg/kg	0.364	1.60%

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.3	103	80-120	12/05/12	12/05/12	#6010B-121205A-AY72370

Comments: _____

Sequence No.: 60
Sample ID: 121205A-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 135
Date Collected: 12/05/12 2:16:36 PM
Data Type: Reprocessed on 12/06/12 10:13:21 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121205A-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	12819.8	98.70	ug/L	2.630	3.948	mg/kg	0.1052	2.67%
Al 308.215	3336.1	2001	ug/L	11.5	80.06	mg/kg	0.459	0.57%
As 188.979	1333.0	239.0	ug/L	1.10	9.560	mg/kg	0.0440	0.46%
B	1020.5	251.6	ug/L	3.90	10.07	mg/kg	0.156	1.55%
Ba 233.527	42056.3	243.7	ug/L	4.04	9.746	mg/kg	0.1617	1.66%
Be 313.107	329721.9	49.32	ug/L	0.827	1.973	mg/kg	0.0331	1.68%
Ca 315.887	315129.0	25470	ug/L	156.6	1019	mg/kg	6.3	0.61%
Cd 214.440	20283.7	50.59	ug/L	0.213	2.024	mg/kg	0.0085	0.42%
Co 228.616	18810.4	257.4	ug/L	1.02	10.30	mg/kg	0.041	0.40%
Cr 267.716	39782.2	259.8	ug/L	3.82	10.39	mg/kg	0.153	1.47%
Cu 327.393	29894.5	236.4	ug/L	2.83	9.458	mg/kg	0.1130	1.19%
Fe 273.955	28097.3	1001	ug/L	13.2	40.04	mg/kg	0.528	1.32%
K 766.490	10385.1	4823	ug/L	75.0	192.9	mg/kg	3.00	1.56%
Mg 285.213	482977.3	25060	ug/L	127.5	1002	mg/kg	5.1	0.51%
Mn 257.610	14090.2	263.0	ug/L	0.77	10.52	mg/kg	0.031	0.29%
Mo 202.031	12170.5	265.6	ug/L	1.18	10.62	mg/kg	0.047	0.45%
Na 589.592	305873.3	24000	ug/L	113.6	959.9	mg/kg	4.54	0.47%
Ni 231.604	18052.7	258.9	ug/L	1.05	10.36	mg/kg	0.042	0.40%
P 213.617	14766.4	1932	ug/L	7.7	77.26	mg/kg	0.310	0.40%
Pb 220.353	4214.2	257.0	ug/L	1.02	10.28	mg/kg	0.041	0.40%
Sb 206.836	1541.6	239.1	ug/L	1.19	9.562	mg/kg	0.0476	0.50%
Se 196.026	1335.3	229.6	ug/L	0.88	9.183	mg/kg	0.0352	0.38%
Sn 189.927	2311.2	269.8	ug/L	1.33	10.79	mg/kg	0.053	0.49%
Sr 421.552	234987.5	244.9	ug/L	1.06	9.795	mg/kg	0.0425	0.43%
Ti 337.279	10888.2	263.1	ug/L	0.94	10.52	mg/kg	0.038	0.36%
Tl 190.801	1731.9	245.7	ug/L	1.42	9.828	mg/kg	0.0567	0.58%
V 292.402	64120.9	262.1	ug/L	3.64	10.48	mg/kg	0.146	1.39%
Zn 206.200	51385.7	512.2	ug/L	8.56	20.49	mg/kg	0.342	1.67%

QA 11-28-12

6010B C

(A)

1%HNO3 / 5%HCl BLK				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	EMD	UN1789-265	10/22/12
20 mL	HNO3	JT BAKER	L10023-266	10/24/12
Prepared in 2000 ml DI Water				
STD 1 / LDL 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
STD 3 / HDL 6010B/6010C				
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15
Prepared in 100 ml 1%HNO3 / 5%HCl				
STD 2 / CCV1 6010B/6010C/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
25mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	
CCV2 6010B/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
15mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICSAB				
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICV				
0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 1%HNO3/5%HCl				

QA 11-28-12

Be 11/29/12

6020/6020A

(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A

Today's Date 11/29/12
Expires 12/06/12
Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL Di Water
Lot #L12065
20 mL HCL / 2000mL Di Water
Lot #51358
Expires 12/06/12

Internal Standard Mix: Prep 11/29/2012

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1 0% HCL 11/29/12

Standard 3 12/06/12

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	ABS STDS	012512-30926
25 uL	CCV-B	ABS STDS	021312-30928
25 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1 0% HCL 11/29/12

Intermediate-Sb 12/06/12
100 uL of Sb STD (CPI 12A011-30298) in 10 mL of 1% HNO3/1 0% HCL
ICV-Sb 12/06/12
100 uL of Intermediate-Sb in 10 mL of 1% HNO3/1.0% HCL

Be 11/29/12

Standard 2 12/06/12

Amount	STD	
500 uL	Standard 4	11/29/12

Prepared in 50 mL of 1% HNO3/1 0% HCL 11/29/12

Standard 1 12/06/12

Amount	STD	
50 uL	Standard 4	11/29/12

Prepared in 50 mL of 1% HNO3/1 0% HCL 11/29/12

ICP-MS ICV 12/06/12

Amount	STD		
50 uL	QCS ICV A	CPI	11C184-30611
50 uL	QCS ICV B	CPI	11C184-30612

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/29/12

ICSA Prep: 12/06/12

1 mL	ICSA	CPI	12I082-31307

Prepared in 5 mL of 1% HNO3/1.0% HCL 11/29/12

ICSAB Prep: 12/06/12

1mL	ICSA	CPI	12I082-31307
0 025mL	INT	O2SI	1032370-30265

Prepared in 5 mL of 1% HNO3/1 0% HCL 11/29/12

ICP-LDR 12/06/12

Amount	STD		
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 10 mL of 1% HNO3/1 0% HCL 11/29/12

Be 11/29/12

Internal Standard Concentration

Be 11/29/12

Amt	STD	Element	Vendor	Lot#	Final Conc. in Std	Expires
500uL	1000 ug/mL	Li	CPI	1035052-30567	5000 ug/L	09/28/13
500uL	1000 ug/mL	In	CPI	12D087-31275	5000 ug/L	02/23/14
500uL	1000 ug/mL	Ho	CPI	11C008-31273	5000 ug/L	02/23/14
500uL	1000 ug/mL	Tb	CPI	12F203-31274	5000 ug/L	02/23/14
500uL	1000 ug/mL	Sc	o2si	1039029-31295	5000 ug/L	02/25/14
500uL	1000 ug/mL	Ge	Environmental Express	1116011-29381	5000 ug/L	02/08/13

Prep.	11/29/12	BC	Prep in -	1%HNO3/1.0%HCL	Lot #L12065/51358	in 100mL
Expires	12/29/12					

Lo 11/29/12

Hg working Stds

LO 11/29/12

Hg WORKING STANDARD 7470A/7471/245.1

1ml X 10ug/ml Hg STOCK STD. (11/13/12LO)/200ml 1% HNO3 Lot#L12065
1ml X 10ug/ml Hg STOCK ICV (11/13/12LO)/200ml 1% HNO3 Lot#L12065
Final concentration is 50 ug/L. Expires.....11/29/12.....

Metals Standards Log Book # 36

BC 12/4/12
6020/6020A
(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A
Today's Date 12/04/12
Expires 12/11/12
Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL Di Water
Lot #L12065
20 mL HCL / 2000mL Di Water
Lot #51358
Expires 12/11/12

Internal Standard Mix: Prep 11/29/2012

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1 0% HCL 12/04/12

Standard 3 12/11/12

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	ABS STDS	012512-30926
25 uL	CCV-B	ABS STDS	021312-30928
25 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1 0% HCL 12/04/12

Intermediate-Sb 12/11/12
100 uL of Sb STD (CPI 12A011-30298) in 10 mL of 1% HNO3/1 0% HCL
ICV-Sb 12/11/12
100 uL of Intermediate-Sb in 10 mL of 1% HNO3/1 0% HCL

BC 12/4/12

Standard 2 12/11/12
Amount STD
500 uL Standard 4 12/04/12
Prepared in 50 mL of 1% HNO3/1 0% HCL 12/04/12

Standard 1 12/11/12
Amount STD
50 uL Standard 4 12/04/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 12/04/12

ICP-MS ICV 12/11/12
Amount STD

50 uL	QCS ICV A	CPI	11C184-30611
50 uL	QCS ICV B	CPI	11C184-30612

Prepared in 50 mL of 1% HNO3/1 0% HCL 12/04/12

ICSA Prep: 12/11/12
1 mL ICSA CPI 12I082-31307
Prepared in 5 mL of 1% HNO3/1 0% HCL 12/04/12

ICSAB Prep: 12/11/12

1mL	ICSA	CPI	12I082-31307
0 025mL	INT	O2Si	1032370-30265

Prepared in 5 mL of 1% HNO3/1 0% HCL 12/04/12
ICP-LDR 12/11/12
Amount STD

50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 10 mL of 1% HNO3/1 0% HCL 12/04/12

~~LO 12/3/12~~ (1) LO 12/4/12

LO ~~12/03/12~~
LO (1) 12/04/12

Hg WORKING STANDARD 7470A/7471/245.1

1ml X 10ug/ml Hg STOCK STD. (12/03/12LO)/200ml 1% HNO3 Lot#L12065
1ml X 10ug/ml Hg STOCK ICV (12/03/12LO)/200ml 1% HNO3 Lot#L12065
Final concentration is 50 ug/L. Expires daily

LO 12/4/12

EA 6010B-C
(A)
12-5-12

1%HNO3 / 5%HCl BLK					6010B/6010C ICSA				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
100 mL	HCL	EMD	UN1789-265	10/22/12	1mL	Al	CPI	11J015-30092	05/28/13
20 mL	HNO3	JT BAKER	L10023-266	10/24/12	1mL	Ca	CPI	11J031-29989	05/14/13
Prepared in 2000 ml DI Water					1mL	Mg	CPI	11K178-30093	05/28/13
STD 1 / LDL 6010B/6010C					1mL	Fe	O2SI	1030787-30616	05/17/13
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	Prepared in 50 ml 1%HNO3/5%HCl				
0 5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13	6010B/6010C ICSAB				
Prepared in 50 ml 1%HNO3/5%HCl					1mL	Al	CPI	11J015-30092	05/28/13
STD 3 / HDL 6010B/6010C					1mL	Ca	CPI	11J031-29989	05/14/13
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15	1mL	Mg	CPI	11K178-30093	05/28/13
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15	1mL	Fe	O2SI	1030787-30616	05/17/13
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15	0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 100 ml 1%HNO3 / 5%HCl					Prepared in 50 ml 1%HNO3/5%HCl				
STD 2 / CCV1 6010B/6010C/6010C					6010B/6010C ICV				
AMOUNT	STD	PREP DATE	EXP DATE		0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
25mL	STD 3	Today	1 week		0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
25mL	1%HNO3/5%HCl	Today	1 week		Prepared in 50ml 1%HNO3/5%HCl				
CCV2 6010B/6010C									
AMOUNT	STD	PREP DATE	EXP DATE						
15mL	STD 3	Today	1 week						
25mL	1%HNO3/5%HCl	Today	1 week						

EA 12-5-12

LO 12/05/12

LO 12/5/12

Hg WORKING STANDARDS 7470A/7471/245.1		
Hg WORKING STD	1ml 10ug/ml Hg STOCK STD. 12/03/12 exp: 12/31/12 and 2mL HNO3 JT Baker LOT#L12065 final conc: 50ug/L to final vol 200mL with milipore water expires daily	
Hg WORKING ICV	1ml 10ug/ml Hg STOCK ICV 12/03/12 exp: 12/31/12 and 2mL HNO3 JT Baker LOT#L12065 final conc: 50ug/L to final vol 200mL with milipore water expires daily	

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121128B **Units** mL

Spikes	
Spiked ID 1	LCSW LOT# 1039704-31514
Spiked ID 2	LCSW LOT# 1039705-31515
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 11/28/12 9:35:00 AM
Witnessed By	BC Date: 11/28/12 9:35:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	11/28/12 14:30

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121128B Blk				2.50g	100mL	11/28/12 9:35	equip: Modblock4
2	121128B LCS		1mL	1+2	2.50g	100mL	11/28/12 9:35	equip: Modblock4
3	AY71798	AY71798M01			2.44g	100mL	11/28/12 9:35	equip: Modblock4
4	AY71801	AY71801M01			2.50g	100mL	11/28/12 9:35	equip: Modblock4
5	AY71804	AY71804M01			2.50g	100mL	11/28/12 9:35	equip: Modblock4
6	AY71931	AY71931M01			2.59g	100mL	11/28/12 9:35	equip: Modblock4
7	AY71934	AY71934M01			2.52g	100mL	11/28/12 9:35	equip: Modblock4
8	AY72096	AY72096M01			2.52g	100mL	11/28/12 9:35	equip: Modblock4
9	AY72099	AY72099M01			2.53g	100mL	11/28/12 9:35	equip: Modblock4
10	AY72102	AY72102M01			2.46g	100mL	11/28/12 9:35	equip: Modblock4
11	AY72102 MS	AY72102M01	2mL	1+2	2.46g	100mL	11/28/12 9:35	equip: Modblock4
12	AY72102 MSD	AY72102M01	2mL	1+2	2.46g	100mL	11/28/12 9:35	equip: Modblock4

Solvent and Lot#
1:1 HNO3 11-9-12
HNO3 J.T.B. L10023 0279
H2O2 EMD K20J00 0254
HCL EMD Lot# 4112030 0277

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	EA
Date	11-28-12
Time	1430
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	11/28/12 10:06:32 AM

Reviewed By: EA **Date:** 11-28-12

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121205A **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 1039704-31514		
Spiked ID 2	LCSW LOT# 1039705-31515		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	12/05/12 8:10:00 AM
Witnessed By	BC	Date:	12/05/12 8:10:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	12/05/12 14:00

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121205A Blk				2.50g	100mL	12/05/12 8:10	equip: Modblock4
2	121205A LCS		1mL	1+2	2.50g	100mL	12/05/12 8:10	equip: Modblock4
3	AY71797	AY71797M01			1.93g	100mL	12/05/12 8:10	equip: Modblock4
4	AY71800	AY71800M01			1.62g	100mL	12/05/12 8:10	equip: Modblock4
5	AY71803	AY71803M01			1.42g	100mL	12/05/12 8:10	equip: Modblock4
6	AY71930	AY71930M01			2.54g	100mL	12/05/12 8:10	equip: Modblock4
7	AY71933	AY71933M01			2.18g	100mL	12/05/12 8:10	equip: Modblock4
8	AY72186	AY72186M01			2.56g	100mL	12/05/12 8:10	equip: Modblock4
9	AY72187	AY72187M01			2.54g	100mL	12/05/12 8:10	equip: Modblock4
10	AY72189	AY72189M01			2.57g	100mL	12/05/12 8:10	equip: Modblock4
11	AY72190	AY72190M01			2.44g	100mL	12/05/12 8:10	equip: Modblock4
12	AY72369	AY72369M01			2.45g	100mL	12/05/12 8:10	equip: Modblock4
13	AY72370	AY72370M01			2.50g	100mL	12/05/12 8:10	equip: Modblock4
14	AY72370 MS	AY72370M01	2mL	1+2	2.50g	100mL	12/05/12 8:10	equip: Modblock4
15	AY72370 MSD	AY72370M01	2mL	1+2	2.50g	100mL	12/05/12 8:10	equip: Modblock4

Solvent and Lot#
:1 HNO3 11-9-12
fNO3 J.T.B. L10023 0280
12O2 J.T.B K20J00 0254
ICL EMD Lot# 4112030 0278

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	SA
Date	12-5-12
Time	14:00
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	12/05/12 10:48:24 AM

Reviewed By: SA **Date:** 12-5-12

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	28 Nov 2012	15:17	CalBlk 121128EA I:PB O:EA		121128A6010	1.
2	28 Nov 2012	15:21	STD 1 121128EA I:PB O:EA		121128A6010	1.
3	28 Nov 2012	15:25	STD 2 121128EA I:PB O:EA		121128A6010	1.
4	28 Nov 2012	15:29	STD 3 121128EA I:PB O:EA		121128A6010	1.
5	28 Nov 2012	15:38	ICV 121128EA I:PB O:EA		121128A6010	1.
6	28 Nov 2012	15:42	ICB 121128EA I:PB O:EA		121128A6010	1.
8	28 Nov 2012	15:51	ICSA 121128EA I:PB O:EA		121128A6010	1.
9	28 Nov 2012	15:56	ICSAB 121128EA I:PB O:EA		121128A6010	1.
10	28 Nov 2012	16:18	CCV1 121128EA I:PB O:EA		121128A6010	1.
11	28 Nov 2012	16:22	CCB 121128EA I:PB O:EA		121128A6010	1.
30	28 Nov 2012	18:18	CCV1 121128EA I:PB O:EA		121128A6010	1.
31	28 Nov 2012	18:26	CCB 121128EA I:PB O:EA		121128A6010	1.
34	28 Nov 2012	18:41	121128B-3050-BLK		121128A6010	1.
35	28 Nov 2012	18:45	121128B-3050-LCS		121128A6010	1.
36	28 Nov 2012	18:51	AY71798M01		121128A6010	1.
37	28 Nov 2012	18:56	AY71801M01		121128A6010	1.
38	28 Nov 2012	19:01	AY71804M01		121128A6010	1.
42	28 Nov 2012	19:25	CCV2 121128EA I:PB O:EA		121128A6010	1.
43	28 Nov 2012	19:32	CCB 121128EA I:PB O:EA		121128A6010	1.

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	05 Dec 2012	09:41	CalBlk 121205EA I:PB O:EA		121205A6010	1.
2	05 Dec 2012	09:46	STD 1 121205EA I:PB O:EA		121205A6010	1.
3	05 Dec 2012	09:50	STD 2 121205EA I:PB O:EA		121205A6010	1.
4	05 Dec 2012	09:53	STD 3 121205EA I:PB O:EA		121205A6010	1.
5	05 Dec 2012	09:57	ICV 121205EA I:PB O:EA		121205A6010	1.
6	05 Dec 2012	10:00	ICB 121205EA I:PB O:EA		121205A6010	1.
8	05 Dec 2012	10:13	ICSA 121205EA I:PB O:EA		121205A6010	1.
9	05 Dec 2012	10:18	ICSAB 121205EA I:PB O:EA		121205A6010	1.
10	05 Dec 2012	10:22	CCV1 121205EA I:PB O:EA		121205A6010	1.
11	05 Dec 2012	10:26	CCB 121205EA I:PB O:EA		121205A6010	1.
57	05 Dec 2012	14:03	CCV1 121205EA I:PB O:EA		121205A6010	1.
58	05 Dec 2012	14:07	CCB 121205EA I:PB O:EA		121205A6010	1.
59	05 Dec 2012	14:12	121205A-3050-BLK		121205A6010	1.
60	05 Dec 2012	14:16	121205A-3050-LCS		121205A6010	1.
62	05 Dec 2012	14:27	AY71797M01		121205A6010	1.
63	05 Dec 2012	14:33	AY71800M01		121205A6010	1.
64	05 Dec 2012	14:39	AY71803M01		121205A6010	1.
68	05 Dec 2012	15:23	CCV2 121205EA I:PB O:EA		121205A6010	1.
69	05 Dec 2012	15:29	CCB 121205EA I:PB O:EA		121205A6010	1.

Wetlab Results

ARF: 69288

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
APPL ID: AY71798	-Client Sample ID: GT12022L		-Sample Collection Date: 11/09/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	67.1	2.0	%	12/04/12	12/04/12
APPL ID: AY71801	-Client Sample ID: GT12023L		-Sample Collection Date: 11/12/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	78.7	2.0	%	12/04/12	12/04/12
APPL ID: AY71804	-Client Sample ID: GT12024L		-Sample Collection Date: 11/12/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	76.1	2.0	%	12/04/12	12/04/12

Printed: 12/04/12 4:48:43 PM

WETLAB

Sample/Sample Duplicate Results

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Project: 748350.02000 CSSA

Sample ID: AY71798
Client ID: GT12022L

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

ARF: 69288

Method	Analyte	Sample ID	Sample Result	Sample Dup Result	RPD	RPD Max	PQL	Units	Sample Extract Date	Sample Analysis Date	Sample Dup Extract Date	Sample Dup Analysis Date
CLP MOIS	MOISTURE	AY71798	67.1	65.9	1.8	20	2.0	%	12/04/12	12/04/12	12/04/12	12/04/12

Printed: 12/04/12 4:48:38 PM

% Moisture

Batch: QCG 121204-M004568

Method: CLP 4.0

Date: 12/04/12 10:39

Sample	Container	Pan (g)	Pan+Wet (g)	Pan+Dry 1 (g)	Pan+Dry 2 (g)	Moisture (%)	Comments
AY72102	m01	0.8378 12/04/12 10:39	8.3387 12/04/12 10:40	3.1364 12/04/12 14:48	3.1281 12/04/12 16:15	69.466	AY72102M01
AY72099	m01	0.8340 12/04/12 10:38	8.0424 12/04/12 10:38	3.4183 12/04/12 14:48	3.4062 12/04/12 16:14	64.317	AY72099M01
AY72096	m01	0.8355 12/04/12 10:35	7.2373 12/04/12 10:38	2.4497 12/04/12 14:48	2.4461 12/04/12 16:09	74.841	AY72096M01
AY71934	m01	0.8335 12/04/12 10:34	9.6022 12/04/12 10:35	3.3541 12/04/12 14:47	3.3431 12/04/12 16:12	71.380	AY71934M01
AY71931	m01	0.8383 12/04/12 10:33	7.7219 12/04/12 10:33	2.7207 12/04/12 14:47	2.7139 12/04/12 16:08	72.753	AY71931M01
AY71804	m01	0.8389 12/04/12 10:32	7.9734 12/04/12 10:32	2.5520 12/04/12 14:47	2.5407 12/04/12 16:11	76.147	AY71804M01
AY71801	m01	0.8411 12/04/12 10:31	7.8151 12/04/12 10:31	2.3310 12/04/12 14:47	2.3243 12/04/12 16:11	78.732	AY71801M01
AY71798D	m01	0.8345 12/04/12 10:29	6.9356 12/04/12 10:30	2.9230 12/04/12 14:47	2.9124 12/04/12 16:11	65.942	AY71798M01
AY71798	m01	0.8351 12/04/12 08:53	7.2537 12/04/12 10:29	2.9495 12/04/12 14:47	2.9497 12/04/12 16:10	67.055	AY71798M01

Date/Time InOven@104°C	Date/Time OutOven@104°C	Date/Time InOven@104°C	Date/Time OutOven@104°C
12/04/12 10:41:00 AM	12/04/12 2:47:00 PM	12/04/12 2:49:00 PM	12/04/12 4:08:00 PM

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
11/29/12	BB	Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	yes
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0004 g	19.9800	20.0200	
		Mettler AT200	50g	50.0005 g	49.9500	50.0500	
		Mettler AT200	100g	100.0012 g	99.9000	100.1000	
		Mettler AT200	150g	150.0016 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.01 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
11/30/12	BB						yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0003 g	19.9800	20.0200	
		Mettler AT200	50g	50.0005 g	49.9500	50.0500	
		Mettler AT200	100g	100.0010 g	99.9000	100.1000	
		Mettler AT200	150g	150.0015 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
12/3/12	AP	Mettler AT200	0.5g	0.5000g	0.4995	0.5005	yes
		Mettler AT200	1g	1.0001 g	0.9990	1.0010	
		Mettler AT200	20g	20.0000g	19.9800	20.0200	
		Mettler AT200	50g	50.0005g	49.9500	50.0500	
		Mettler AT200	100g	100.0009g	99.9000	100.1000	
		Mettler AT200	150g	150.0014g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	999.99 g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.99 g	1960.00	2040.00	
12/4/12	BB						yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0000 g	19.9800	20.0200	
		Mettler AT200	50g	50.0001 g	49.9500	50.0500	
		Mettler AT200	100g	100.0004 g	99.9000	100.1000	
		Mettler AT200	150g	150.0005 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	999.99 g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.96 g	1960.00	2040.00	

Laboratory Report

Parsons

Project #: 748350.02000 CSSA

ARF: 69306

Samples collected: November 14, 2012

APPL, Inc.

Data Validatable Package

for

Project #: 748350.02000 CSSA

ARF 69306

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CASE NARRATIVE

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

EPA Method 6010B
Metals

Case Narrative

ARF: 69306

Project: 748350.02000 CSSA

California State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Texas Certificate Number: T104704242-10-3

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

The samples were received November 15, 2012, at 3.5°C. The samples were assigned Analytical Request Form (ARF) number 69306. The sample numbers and requested analyses were compared to the chains of custody. No exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
GT12025M	AY71932	MISC	11/14/12	11/16/12
GT12026M	AY71935	MISC	11/14/12	11/16/12

Percent moisture was determined using CLP 4.0.

Digestion Information:

The miscellaneous samples were frozen and homogenized according to APPL's SOP PRE003. An aliquot of the homogenized sample was digested according to EPA method 3050B. Since the laboratory was unable to obtain a similar clean matrix, the blank and the LCS were digested according to APPL's SOP PRE3050B. No other exception was encountered. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed according to EPA method 6010B using a Perkin Elmer Optima 5300DV ICP.

Calibrations:

Calibrations were performed according to the method for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard. All other calibration acceptance criteria were met.

Blanks:

No target metal was detected above the reporting limit (RL) in the method blank.

Spikes:

Laboratory Control Spike (LCS), post-digestion spike (PDS), and dilution test were used for quality assurance. All LCS acceptance criteria were met.

Sample GT12026M was selected by the laboratory as the QC sample for the analytical batch. The dilution test was not applicable. The PDS met acceptance criteria.

Summary:

No other analytical exception is noted. The data generated are acceptable.

CERTIFICATION

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. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

12-5-12

Sharon Dehmlow, Laboratory Director / Date

Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other - explain
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel.
Y	Percent difference between primary and confirmation column > 40%

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 69306

Client: **Parsons**
Address: **8000 Centre Park Drive Ste 200**
Austin, TX 78754
Attn: **Tammy Chang**
Phone: **512-719-6092** Fax: **512-719-6099**
Job: **748350.02000 CSSA**
PO #: **748350.30002 (prime *G012)**
Chain of Custody (Y/N): **Y** # **111512APPFA**
RAD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **7 DAYS**

Received by: **CM**
Date Received: **11/16/12** Time: **11:30**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-6**
Chest Temp(s): **3.5°C**
Color: **A_Frez**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Diane Anderson** *rp*
QC Report Type: **DVP4/AFCEE/ERPIMS/TX**
Due Date: **11/23/12**

Comments:
Prelim muscle (meat) data due 11-27-12; final report due 12-4-12.
pdf ARF to Tammy & Pam; send 1 DVP3 HC & send DVP3 & DVP4 on CD to Tammy.

Case Narrative. CSSA QAPP. Only report MS/MSD when requested.
Report results on APPL forms: U to the RL; report results in wet weight (without moisture correction)
Wait to do moisture analysis after metals analysis.
EDD: ERPIMS 4 Lab PC4 checked TXF to Pam.Ford@parsons.com

11-19 Sent ARF

Sample Distribution:
Metals: 2-$6010BDODS(Pb)
Wetlab: 2-MOIST
Other: 2-_M3050

Charges:

Invoice To:
PARSONS GOV'T SERV.
8000 Centre Park Drive Ste 200
Austin, TX 78754-5140
Attn: Ellen Felfe

	Client ID	APPL ID	Sampled	Analyses Requested
1.	GT12025M	AY71932M	11/14/12 17:30	$6010BDODS(Pb), MOIST
2.	GT12026M	AY71935M	11/14/12 17:45	$6010BDODS(Pb), MOIST

Note: All times, excluding sample collection times, are Pacific Time Zone unless noted otherwise. Collection times are in: -6 UTC

APPL Sample Receipt Form

ARF# **69306**

Sample	Container Type	Count	pH
AY71932	35 Plastic Bag	1	NA
AY71935	35 Plastic Bag	1	NA

Sample	Container Type	Count	pH

Camp Stanley Storage Activity Chain Of Custody

69306 3.5°C
69307 ~~69315~~

COC ID:	111512APPFA	Relinquish_Date:	11/15/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF
Job Number:	748350.02000	Relinquish_Time:	1:30 PM	Carrier:	FedEx
Creation Date:	11/15/2012	Collection Team:	SE	Airbill Carrier:	876436444097
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): San Elliott

S. Elliott

LOCID: **GT12025B** LOGDATE: **11/14/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **17:30** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12025B_111412_N1730** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12025L** LOGDATE: **11/14/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **17:30** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12025L_111412_N1730** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12025M** LOGDATE: **11/14/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **17:30** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12025M_111412_N1730** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12026B** LOGDATE: **11/14/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **17:45** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12026B_111412_N1745** EBLOT: Containers: 1
Remarks: **pig**
Analysis Required: SW6010B LEAD

LOCID: **GT12026L** LOGDATE: **11/14/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **17:45** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12026L_111412_N1745** EBLOT: Containers: 1
Remarks: **pig**
Analysis Required: SW6010B LEAD

LOCID: **GT12026M** LOGDATE: **11/14/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **17:45** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12026M_111412_N1745** EBLOT: Containers: 1
Remarks: **pig**
Analysis Required: SW6010B LEAD

Relinquished by: S. Elliott Date 11/15/12 Time 1330
Recieved by: Date 11/15/12 Time 1330

Relinquished by: Date Time
Recieved by: Date Time

Relinquished by: Date Time
Recieved by: Date Time

COOLER RECEIPT FORM

1) Project: 748350.02000 CSSA Date Received: 11/15/12

2) Coolers: Number of Coolers: 1

3) YES NO Were coolers and samples screened for radioactivity?

4) YES NO Were custody seals on outside of cooler? How many? 1 Date on seal? 11/15/12

5) Name on seal? See Label

6) YES NO NA Were custody seals unbroken and intact at the time of arrival?

7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex

8) Shipping slip numbers: 1) 8764 3644 4097 2) 3)

9) YES NO NA Was the shipping slip scanned into the database?

10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Ziploc in wet ice

12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?

13) YES NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: A39267 Correction factor: 0

15) Cooler temp(s): 1) 3.5°C 2) 3) 4) 5) 6) 7) 8)

Chain of custody:

16) YES NO Was a chain of custody received?

17) YES NO Were the custody papers signed in the appropriate places?

18) YES NO Was the project identifiable from custody papers?

19) YES NO Did the chain of custody include date and time of sampling?

20) YES NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) YES NO Were container labels in good condition?

22) YES NO Was the client ID on the label?

23) YES NO Was the date of sampling on the label?

24) YES NO Was the time of sampling on the label?

25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?

27) YES NO Did all containers arrive unbroken?

28) YES NO Was there any leakage from samples?

29) YES NO Were any of the lids cracked or broken?

30) YES NO Were correct containers used for the tests indicated?

31) YES NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea:

Smaller than a pea:

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO NA Unpreserved VOA Vials received?

38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

Lab notified if pH was not adequate:

Deficiencies:

Signature of personnel receiving samples: Second reviewer:

Signature of project manager notified: Date and Time of notification:

Name of client notified: Date and Time of notification:

Information given to client:

by whom (Initials):

CUSTODY SEAL

APPL, Inc.

(559) 275-2175

Initials SE

Date 11/15/12

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/21/12	11/21/12	#6010B-121121C-AY71935

Metals SC-Blank-REG MDLs
Printed: 11/26/12 11:53:29 AM

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	9.8	98.0	80-120	11/21/12	11/21/12	#6010B-121121C-AY71935

Comments: _____

METALS
Sample Data

APPL, INC.

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12025M
Sample Collection Date: 11/14/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69306
APPL ID: AY71932

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/21/12	11/21/12

Printed: 11/26/12 11:53:26 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 102
Sample ID: AY71932M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.58 g
Dilution:

Autosampler Location: 121
Date Collected: 11/21/12 6:55:54 PM
Data Type: Reprocessed on 11/26/12 10:26:31 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71932M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	412.4	3.061	ug/L	0.6060	0.119	mg/kg	0.0235	19.80%
Al 308.215	23.9	13.04	ug/L	5.000	0.505	mg/kg	0.1938	38.35%
As 188.979	-1.5	-0.291	ug/L	1.1619	-0.011	mg/kg	0.0450	399.44%
B	27.8	9.895	ug/L	1.8943	0.384	mg/kg	0.0734	19.14%
Ba 233.527	279.2	1.008	ug/L	0.0727	0.039	mg/kg	0.0028	7.21%
Be 313.107	-1170.2	-0.179	ug/L	0.0275	-0.007	mg/kg	0.0011	15.42%
Ca 315.887	17947.9	1376	ug/L	3.1	53.32	mg/kg	0.121	0.23%
Cd 214.440	120.7	0.243	ug/L	0.0307	0.009	mg/kg	0.0012	12.65%
Co 228.616	38.3	0.467	ug/L	0.3394	0.018	mg/kg	0.0132	72.63%
Cr 267.716	333.1	2.256	ug/L	0.1379	0.087	mg/kg	0.0053	6.11%
Cu 327.393	5520.3	50.37	ug/L	1.053	1.952	mg/kg	0.0408	2.09%
Fe 273.955	23104.4	829.8	ug/L	9.69	32.16	mg/kg	0.376	1.17%
K 766.490	294078.6	71890	ug/L	500.1	2787	mg/kg	19.4	0.70%
Mg 285.213	115714.4	5622	ug/L	33.7	217.9	mg/kg	1.30	0.60%
Mn 257.610	460.9	7.745	ug/L	0.2086	0.300	mg/kg	0.0081	2.69%
Mo 202.031	43.1	1.078	ug/L	0.1002	0.042	mg/kg	0.0039	9.29%
Na 589.592	103437.5	7316	ug/L	45.1	283.6	mg/kg	1.75	0.62%
Ni 231.604	-39.1	-0.663	ug/L	0.1617	-0.026	mg/kg	0.0063	24.37%
P 213.617	329871.5	47200	ug/L	431.6	1829	mg/kg	16.7	0.91%
Pb 220.353	-33.7	-2.206	ug/L	0.1517	-0.085	mg/kg	0.0059	6.88%
Sb 206.836	4.4	0.637	ug/L	0.5509	0.025	mg/kg	0.0214	86.52%
Se 196.026	110.1	19.10	ug/L	2.244	0.740	mg/kg	0.0870	11.75%
Sn 189.927	-72.3	-9.609	ug/L	0.9884	-0.372	mg/kg	0.0383	10.29%
Sr 421.552	977.2	1.061	ug/L	0.0717	0.041	mg/kg	0.0028	6.75%
Ti 337.279	84.9	1.357	ug/L	0.3033	0.053	mg/kg	0.0118	22.36%
Tl 190.801	-4.0	-0.569	ug/L	0.4297	-0.022	mg/kg	0.0167	75.58%
V 292.402	-33.2	-0.389	ug/L	0.5402	-0.015	mg/kg	0.0209	138.94%
Zn 206.200	39052.0	435.7	ug/L	4.80	16.89	mg/kg	0.186	1.10%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12026M
Sample Collection Date: 11/14/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69306
APPL ID: AY71935

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/21/12	11/21/12

Printed: 11/26/12 11:53:26 AM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 103
Sample ID: AY71935M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.53 g
Dilution:

Autosampler Location: 122
Date Collected: 11/21/12 7:00:50 PM
Data Type: Reprocessed on 11/26/12 10:26:32 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71935M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	347.5	2.579	ug/L	0.8007	0.102	mg/kg	0.0316	31.05%
Al 308.215	1247.4	674.2	ug/L	9.78	26.65	mg/kg	0.387	1.45%
As 188.979	3.9	0.764	ug/L	0.8587	0.030	mg/kg	0.0339	112.40%
B	17.3	7.948	ug/L	1.4254	0.314	mg/kg	0.0563	17.93%
Ba 233.527	679.0	3.119	ug/L	0.0176	0.123	mg/kg	0.0007	0.56%
Be 313.107	-982.0	-0.150	ug/L	0.0306	-0.006	mg/kg	0.0012	20.41%
Ca 315.887	72636.4	5583	ug/L	28.9	220.7	mg/kg	1.14	0.52%
Cd 214.440	168.8	0.343	ug/L	0.0204	0.014	mg/kg	0.0008	5.94%
Co 228.616	62.7	0.762	ug/L	0.1582	0.030	mg/kg	0.0063	20.76%
Cr 267.716	406.0	2.739	ug/L	0.0896	0.108	mg/kg	0.0035	3.27%
Cu 327.393	3757.7	34.29	ug/L	0.620	1.355	mg/kg	0.0245	1.81%
Fe 273.955	30208.5	1086	ug/L	8.2	42.92	mg/kg	0.323	0.75%
K 766.490	246747.2	60320	ug/L	165.2	2384	mg/kg	6.5	0.27%
Mg 285.213	88488.5	4299	ug/L	2.4	169.9	mg/kg	0.10	0.06%
Mn 257.610	685.5	11.71	ug/L	0.060	0.463	mg/kg	0.0024	0.52%
Mo 202.031	71.7	1.782	ug/L	0.1518	0.070	mg/kg	0.0060	8.52%
Na 589.592	188692.2	13380	ug/L	15.8	528.7	mg/kg	0.63	0.12%
Ni 231.604	-41.4	-0.693	ug/L	0.2245	-0.027	mg/kg	0.0089	32.41%
P 213.617	249021.5	35630	ug/L	376.4	1408	mg/kg	14.9	1.06%
Pb 220.353	-8.4	-0.552	ug/L	0.1550	-0.022	mg/kg	0.0061	28.06%
Sb 206.836	5.4	0.789	ug/L	0.2319	0.031	mg/kg	0.0092	29.39%
Se 196.026	127.9	22.76	ug/L	0.756	0.899	mg/kg	0.0299	3.32%
Sn 189.927	-58.1	-7.727	ug/L	0.5133	-0.305	mg/kg	0.0203	6.64%
Sr 421.552	2426.8	2.274	ug/L	0.0678	0.090	mg/kg	0.0027	2.98%
Ti 337.279	531.1	10.53	ug/L	0.117	0.416	mg/kg	0.0046	1.11%
Tl 190.801	-3.4	-0.482	ug/L	0.6753	-0.019	mg/kg	0.0267	140.12%
V 292.402	258.5	0.691	ug/L	0.2812	0.027	mg/kg	0.0111	40.68%
Zn 206.200	109265.1	1218	ug/L	6.4	48.13	mg/kg	0.252	0.52%

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69306 SDG: 69306
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/21/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:56	%R(1)	True CCV1	Found 12:21	%R(1)	True CCV2	Found 18:24	%R(1)	
Lead (Pb)	1000	1041	104	1000	1044	104	750	815.8	109	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69306 SDG: 69306
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/21/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:56	%R(1)	True CCV1	Found 19:20	%R(1)	True	Found	%R(1)	
Lead (Pb)	1000	1041	104	1000	1081	108				P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69306 SDG: 69306

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 11/21/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	12:04		12:24		18:28		19:24		18:32		
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69306 SDG: 69306

ICP ID Number: Phoebe ICS Source: Environmental Express

Analysis Date: 11/21/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 12:12	Sol AB 12:16	%R(1)
Aluminum (Al)	200000	200000	194000	190500	95.3
Calcium (Ca)	200000	200000	195100	193800	96.9
Iron (Fe)	200000	200000	180800	178000	89.0
Magnesium (Mg)	200000	200000	188500	189500	94.8
Lead (Pb)		1000	0.754	963.7	96.4

(1) Control Limits: Metals 80-120

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

GT12026M

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69306 SDG: 69306

Analysis Date: 11/21/12 Concentration Units: mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	23.27		ND		19.763	118		

Comments:

11/21/12 19:00 AY71935M01

11/21/12 19:14 AY71935M01-A

Sequence No.: 106
Sample ID: AY71935M01-A
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.53 g
Dilution:

Autosampler Location: 125
Date Collected: 11/21/12 7:14:46 PM
Data Type: Reprocessed on 11/26/12 10:26:35 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71935M01-A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	18251.7	135.5	ug/L	0.58	5.354	mg/kg	0.0231	0.43%
Al 308.215	9083.4	4916	ug/L	28.2	194.3	mg/kg	1.11	0.57%
As 188.979	2789.5	540.6	ug/L	3.18	21.37	mg/kg	0.126	0.59%
B	2219.8	566.7	ug/L	0.97	22.40	mg/kg	0.038	0.17%
Ba 233.527	98792.0	555.2	ug/L	3.99	21.94	mg/kg	0.158	0.72%
Be 313.107	731701.0	111.6	ug/L	0.56	4.412	mg/kg	0.0221	0.50%
Ca 315.887	796700.0	61270	ug/L	776.9	2422	mg/kg	30.7	1.27%
Cd 214.440	40878.2	110.5	ug/L	0.72	4.369	mg/kg	0.0284	0.65%
Co 228.616	42720.0	592.9	ug/L	5.72	23.43	mg/kg	0.226	0.97%
Cr 267.716	86543.9	584.2	ug/L	3.60	23.09	mg/kg	0.142	0.62%
Cu 327.393	67380.5	614.9	ug/L	2.88	24.30	mg/kg	0.114	0.47%
Fe 273.955	90238.4	3198	ug/L	27.3	126.4	mg/kg	1.08	0.85%
K 766.490	291242.1	71190	ug/L	789.1	2814	mg/kg	31.2	1.11%
Mg 285.213	1186198.5	57640	ug/L	682.2	2278	mg/kg	27.0	1.18%
Mn 257.610	33844.9	585.1	ug/L	5.18	23.13	mg/kg	0.205	0.88%
Mo 202.031	24718.7	531.4	ug/L	2.54	21.00	mg/kg	0.101	0.48%
Na 589.592	949463.2	67390	ug/L	755.2	2664	mg/kg	29.9	1.12%
Ni 231.604	38117.8	574.1	ug/L	2.34	22.69	mg/kg	0.092	0.41%
P 213.617	273595.2	39140	ug/L	198.3	1547	mg/kg	7.8	0.51%
Pb 220.353	9000.0	588.8	ug/L	1.66	23.27	mg/kg	0.065	0.28%
Sb 206.836	3213.4	466.0	ug/L	2.86	18.42	mg/kg	0.113	0.61%
Se 196.026	3015.1	565.4	ug/L	2.03	22.35	mg/kg	0.080	0.36%
Sn 189.927	4495.6	597.7	ug/L	0.62	23.62	mg/kg	0.025	0.10%
Sr 421.552	633421.3	562.8	ug/L	6.87	22.25	mg/kg	0.272	1.22%
Ti 337.279	25484.3	519.9	ug/L	2.70	20.55	mg/kg	0.107	0.52%
Tl 190.801	3874.1	549.0	ug/L	3.39	21.70	mg/kg	0.134	0.62%
V 292.402	145162.4	591.4	ug/L	4.44	23.38	mg/kg	0.176	0.75%
Zn 206.200	199837.3	2233	ug/L	17.2	88.26	mg/kg	0.678	0.77%

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 121121B6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1 Autosampler Location: 1
Sample ID: CalBlk 121121EA I:PB O:EA Date Collected: 11/21/12 11:42:02 AM
Analyst: Data Type: Reprocessed on 11/26/12 10:24:48 AM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CalBlk 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-195.2	56.98	29.19%	[0.00]	ug/L
Al 308.215	135.1	12.04	8.91%	[0.00]	ug/L
As 188.979	-1.8	7.01	382.12%	[0.00]	ug/L
B	9.3	6.34	68.28%	[0.00]	ug/L
Ba 233.527	133.3	8.19	6.14%	[0.00]	ug/L
Be 313.107	1732.9	75.11	4.33%	[0.00]	ug/L
Ca 315.887	-209.0	10.20	4.88%	[0.00]	ug/L
Cd 214.440	406.1	11.10	2.73%	[0.00]	ug/L
Co 228.616	53.5	8.26	15.44%	[0.00]	ug/L
Cr 267.716	633.2	13.95	2.20%	[0.00]	ug/L
Cu 327.393	-183.3	33.71	18.39%	[0.00]	ug/L
Fe 273.955	532.6	15.18	2.85%	[0.00]	ug/L
K 766.490	-507.4	83.36	16.43%	[0.00]	ug/L
Mg 285.213	-45.3	11.65	25.74%	[0.00]	ug/L
Mn 257.610	-13.3	10.71	80.80%	[0.00]	ug/L
Mo 202.031	175.5	2.97	1.69%	[0.00]	ug/L
Na 589.592	205.0	131.02	63.92%	[0.00]	ug/L
Ni 231.604	-209.1	4.56	2.18%	[0.00]	ug/L
P 213.617	46.8	7.16	15.30%	[0.00]	ug/L
Pb 220.353	-41.6	11.11	26.73%	[0.00]	ug/L
Sb 206.836	-2.2	3.72	169.59%	[0.00]	ug/L
Se 196.026	-29.2	12.64	43.28%	[0.00]	ug/L
Sn 189.927	-15.1	1.06	7.01%	[0.00]	ug/L
Sr 421.552	899.5	127.66	14.19%	[0.00]	ug/L
Ti 337.279	-369.8	10.10	2.73%	[0.00]	ug/L
Tl 190.801	-12.3	2.38	19.40%	[0.00]	ug/L
V 292.402	-799.1	86.30	10.80%	[0.00]	ug/L
Zn 206.200	-384.2	6.60	1.72%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/21/12 11:46:24 AM
Data Type: Reprocessed on 11/26/12 10:24:50 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	263.8	45.35	17.19%	[1.00]	ug/L
Al 308.215	212.5	11.30	5.32%	[100.00]	ug/L
As 188.979	19.4	8.05	41.50%	[3.50]	ug/L
B	225.4	4.10	1.82%	[50.00]	ug/L
Ba 233.527	959.6	22.54	2.35%	[5.00]	ug/L
Be 313.107	13791.7	280.79	2.04%	[2.00]	ug/L
Ca 315.887	1393.6	37.55	2.69%	[100.00]	ug/L
Cd 214.440	2154.4	23.83	1.11%	[5.00]	ug/L
Co 228.616	420.7	18.72	4.45%	[5.00]	ug/L
Cr 267.716	837.8	15.19	1.81%	[5.00]	ug/L
Cu 327.393	549.7	41.37	7.53%	[5.00]	ug/L
Fe 273.955	1437.8	14.46	1.01%	[50.00]	ug/L
K 766.490	3250.3	62.11	1.91%	[1000.00]	ug/L
Mg 285.213	1097.4	3.01	0.27%	[50]	ug/L
Mn 257.610	312.4	4.81	1.54%	[5.00]	ug/L
Mo 202.031	235.6	6.66	2.83%	[5.00]	ug/L
Na 589.592	15025.3	176.31	1.17%	[1000.00]	ug/L
Ni 231.604	389.5	8.05	2.07%	[5.00]	ug/L
P 213.617	171.9	7.82	4.55%	[25.00]	ug/L
Pb 220.353	40.1	10.28	25.66%	[3.00]	ug/L
Sb 206.836	38.4	1.74	4.53%	[5.00]	ug/L
Se 196.026	42.5	10.71	25.21%	[5.00]	ug/L
Sn 189.927	41.7	1.01	2.43%	[5.00]	ug/L
Sr 421.552	6037.1	201.21	3.33%	[5.00]	ug/L
Ti 337.279	247.7	15.67	6.33%	[5.00]	ug/L
Tl 190.801	41.8	1.21	2.90%	[5.00]	ug/L
V 292.402	1289.9	106.84	8.28%	[5.00]	ug/L
Zn 206.200	2196.3	10.42	0.47%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/21/12 11:50:47 AM
Data Type: Reprocessed on 11/26/12 10:24:51 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	70181.8	443.94	0.63%	[500.0]	ug/L
Al 308.215	37685.6	653.30	1.73%	[20000.00]	ug/L
As 188.979	5197.5	49.91	0.96%	[1000.00]	ug/L
B	3981.3	50.28	1.26%	[1000.00]	ug/L
Ba 233.527	180039.7	1363.90	0.76%	[1000.00]	ug/L
Be 313.107	6636766.8	92907.82	1.40%	[1000.00]	ug/L
Ca 315.887	665678.4	2348.01	0.35%	[50000]	ug/L
Cd 214.440	379457.1	2201.84	0.58%	[1000.00]	ug/L
Co 228.616	73222.7	619.37	0.85%	[1000.00]	ug/L
Cr 267.716	150186.2	959.12	0.64%	[1000.00]	ug/L
Cu 327.393	109017.6	786.46	0.72%	[1000.00]	ug/L
Fe 273.955	580517.9	3925.83	0.68%	[20000]	ug/L
K 766.490	80185.2	1141.30	1.42%	[20000]	ug/L
Mg 285.213	1062744.5	2915.89	0.27%	[50000]	ug/L
Mn 257.610	58120.9	861.39	1.48%	[1000.00]	ug/L
Mo 202.031	49800.5	132.00	0.27%	[1000.00]	ug/L
Na 589.592	353487.9	1313.42	0.37%	[25000]	ug/L
Ni 231.604	68371.3	252.75	0.37%	[1000.00]	ug/L
P 213.617	35452.9	94.46	0.27%	[5000]	ug/L
Pb 220.353	15630.2	14.69	0.09%	[1000.00]	ug/L
Sb 206.836	7218.4	26.65	0.37%	[1000.00]	ug/L
Se 196.026	5391.1	38.67	0.72%	[1000.00]	ug/L
Sn 189.927	7895.8	14.54	0.18%	[1000.00]	ug/L
Sr 421.552	1129661.7	4041.68	0.36%	[1000.00]	ug/L
Ti 337.279	50849.0	710.00	1.40%	[1000.00]	ug/L
Tl 190.801	7204.9	9.96	0.14%	[1000.00]	ug/L
V 292.402	251901.7	1496.57	0.59%	[1000.00]	ug/L
Zn 206.200	91960.9	629.29	0.68%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 11/21/12 11:53:28 AM
Data Type: Reprocessed on 11/26/12 10:24:52 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	133327.2	352.80	0.26%	[1000.00]	ug/L
Al 308.215	73691.6	132.93	0.18%	[40000.00]	ug/L
As 188.979	10300.8	15.31	0.15%	[2000.00]	ug/L
B	7928.5	90.12	1.14%	[2000.00]	ug/L
Ba 233.527	353580.8	2397.12	0.68%	[2000.00]	ug/L
Be 313.107	13069672.9	56798.82	0.43%	[2000.00]	ug/L
Ca 315.887	1292159.9	9206.51	0.71%	[100000.0]	ug/L
Cd 214.440	735678.6	5905.59	0.80%	[2000.00]	ug/L
Co 228.616	143347.8	943.04	0.66%	[2000.00]	ug/L
Cr 267.716	295355.5	1951.43	0.66%	[2000.00]	ug/L
Cu 327.393	219453.4	246.01	0.11%	[2000.00]	ug/L
Fe 273.955	1097782.1	8455.69	0.77%	[40000]	ug/L
K 766.490	164460.5	1646.87	1.00%	[40000]	ug/L
Mg 285.213	2041134.1	13074.74	0.64%	[100000]	ug/L
Mn 257.610	114930.5	990.29	0.86%	[2000.00]	ug/L
Mo 202.031	91541.4	596.27	0.65%	[2000.00]	ug/L
Na 589.592	703313.3	6625.62	0.94%	[50000]	ug/L
Ni 231.604	131395.7	696.10	0.53%	[2000.00]	ug/L
P 213.617	69639.7	435.22	0.62%	[10000]	ug/L
Pb 220.353	30396.9	195.88	0.64%	[2000.00]	ug/L
Sb 206.836	13631.7	66.33	0.49%	[2000.00]	ug/L
Se 196.026	10561.7	39.44	0.37%	[2000.00]	ug/L
Sn 189.927	14856.3	76.73	0.52%	[2000.00]	ug/L
Sr 421.552	2247510.9	20861.49	0.93%	[2000.00]	ug/L
Ti 337.279	96848.4	463.53	0.48%	[2000.00]	ug/L
Tl 190.801	14040.0	69.30	0.49%	[2000.00]	ug/L
V 292.402	499824.9	3017.75	0.60%	[2000.00]	ug/L
Zn 206.200	178509.7	1635.29	0.92%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	134.7	0.00000	0.999782	
Al 308.215	3	Lin Thru 0	0.0	1.851	0.00000	0.999959	
As 188.979	3	Lin Thru 0	0.0	5.160	0.00000	0.999993	
B	3	Lin Thru 0	0.0	3.968	0.00000	0.999994	
Ba 233.527	3	Lin Thru 0	0.0	177.4	0.00000	0.999973	
Be 313.107	3	Lin Thru 0	0.0	6555	0.00000	0.999981	
Ca 315.887	3	Lin Thru 0	0.0	13.00	0.00000	0.999927	
Cd 214.440	3	Lin Thru 0	0.0	370.2	0.00000	0.999921	
Co 228.616	3	Lin Thru 0	0.0	71.98	0.00000	0.999963	
Cr 267.716	3	Lin Thru 0	0.0	148.2	0.00000	0.999977	
Cu 327.393	3	Lin Thru 0	0.0	109.6	0.00000	0.999997	
Fe 273.955	3	Lin Thru 0	0.0	27.76	0.00000	0.999741	
K 766.490	3	Lin Thru 0	0.0	4.091	0.00000	0.999939	
Mg 285.213	3	Lin Thru 0	0.0	20.58	0.00000	0.999866	
Mn 257.610	3	Lin Thru 0	0.0	57.60	0.00000	0.999990	
Mo 202.031	3	Lin Thru 0	0.0	46.58	0.00000	0.999402	
Na 589.592	3	Lin Thru 0	0.0	14.08	0.00000	0.999997	
Ni 231.604	3	Lin Thru 0	0.0	66.23	0.00000	0.999870	
P 213.617	3	Lin Thru 0	0.0	6.989	0.00000	0.999974	
Pb 220.353	3	Lin Thru 0	0.0	15.28	0.00000	0.999936	
Sb 206.836	3	Lin Thru 0	0.0	6.896	0.00000	0.999728	
Se 196.026	3	Lin Thru 0	0.0	5.303	0.00000	0.999965	
Sn 189.927	3	Lin Thru 0	0.0	7.522	0.00000	0.999691	
Sr 421.552	3	Lin Thru 0	0.0	1125	0.00000	0.999998	
Ti 337.279	3	Lin Thru 0	0.0	48.91	0.00000	0.999803	
Tl 190.801	3	Lin Thru 0	0.0	7.057	0.00000	0.999945	

V 292.402	3	Lin Thru 0	0.0	250.3	0.00000	0.999995
Zn 206.200	3	Lin Thru 0	0.0	89.80	0.00000	0.999925

Sequence No.: 5
Sample ID: ICV 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 11/21/12 11:56:43 AM
Data Type: Reprocessed on 11/26/12 10:24:53 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65946.4	489.5	ug/L	8.11	489.5	ug/L	8.11	1.66%
QC value within limits for Ag 338.289 Recovery = 97.89%								
Al 308.215	44119.7	23850	ug/L	153.4	23850	ug/L	153.4	0.64%
QC value within limits for Al 308.215 Recovery = 95.40%								
As 188.979	5085.7	985.6	ug/L	1.36	985.6	ug/L	1.36	0.14%
QC value within limits for As 188.979 Recovery = 98.56%								
B	3871.9	1052	ug/L	2.2	1052	ug/L	2.2	0.21%
QC value within limits for B Recovery = 105.20%								
Ba 233.527	172893.5	960.8	ug/L	10.59	960.8	ug/L	10.59	1.10%
QC value within limits for Ba 233.527 Recovery = 96.08%								
Be 313.107	6553308.6	999.7	ug/L	1.73	999.7	ug/L	1.73	0.17%
QC value within limits for Be 313.107 Recovery = 99.97%								
Ca 315.887	318751.3	24510	ug/L	152.8	24510	ug/L	152.8	0.62%
QC value within limits for Ca 315.887 Recovery = 98.04%								
Cd 214.440	372626.3	1006	ug/L	12.0	1006	ug/L	12.0	1.19%
QC value within limits for Cd 214.440 Recovery = 100.60%								
Co 228.616	72215.9	1002	ug/L	11.7	1002	ug/L	11.7	1.17%
QC value within limits for Co 228.616 Recovery = 100.23%								
Cr 267.716	148174.2	1001	ug/L	11.0	1001	ug/L	11.0	1.10%
QC value within limits for Cr 267.716 Recovery = 100.12%								
Cu 327.393	105641.0	964.0	ug/L	11.23	964.0	ug/L	11.23	1.17%
QC value within limits for Cu 327.393 Recovery = 96.40%								
Fe 273.955	679048.7	24380	ug/L	256.1	24380	ug/L	256.1	1.05%
QC value within limits for Fe 273.955 Recovery = 97.52%								
K 766.490	94035.2	22980	ug/L	96.2	22980	ug/L	96.2	0.42%
QC value within limits for K 766.490 Recovery = 91.91%								
Mg 285.213	508780.3	24750	ug/L	118.8	24750	ug/L	118.8	0.48%
QC value within limits for Mg 285.213 Recovery = 99.00%								
Mn 257.610	58447.3	1015	ug/L	3.9	1015	ug/L	3.9	0.38%
QC value within limits for Mn 257.610 Recovery = 101.55%								
Mo 202.031	45074.2	970.3	ug/L	12.43	970.3	ug/L	12.43	1.28%
QC value within limits for Mo 202.031 Recovery = 97.03%								
Na 589.592	344556.7	24450	ug/L	100.1	24450	ug/L	100.1	0.41%
QC value within limits for Na 589.592 Recovery = 97.80%								
Ni 231.604	68127.6	1026	ug/L	12.5	1026	ug/L	12.5	1.22%
QC value within limits for Ni 231.604 Recovery = 102.64%								
P 213.617	32669.4	4674	ug/L	66.8	4674	ug/L	66.8	1.43%
QC value within limits for P 213.617 Recovery = 93.48%								
Pb 220.353	15908.2	1041	ug/L	3.5	1041	ug/L	3.5	0.34%
QC value within limits for Pb 220.353 Recovery = 104.08%								
Sb 206.836	7022.4	1018	ug/L	4.5	1018	ug/L	4.5	0.44%
QC value within limits for Sb 206.836 Recovery = 101.83%								
Se 196.026	5386.8	1028	ug/L	0.5	1028	ug/L	0.5	0.05%
QC value within limits for Se 196.026 Recovery = 102.76%								
Sn 189.927	4055.9	539.2	ug/L	2.62	539.2	ug/L	2.62	0.49%
QC value within limits for Sn 189.927 Recovery = 107.85%								
Sr 421.552	1102872.0	980.1	ug/L	4.68	980.1	ug/L	4.68	0.48%
QC value within limits for Sr 421.552 Recovery = 98.01%								
Ti 337.279	44947.5	918.6	ug/L	7.23	918.6	ug/L	7.23	0.79%
QC value within limits for Ti 337.279 Recovery = 91.86%								
Tl 190.801	7076.8	1003	ug/L	0.8	1003	ug/L	0.8	0.08%
QC value within limits for Tl 190.801 Recovery = 100.28%								
V 292.402	247140.2	1004	ug/L	11.8	1004	ug/L	11.8	1.18%
QC value within limits for V 292.402 Recovery = 100.36%								
Zn 206.200	92771.8	1042	ug/L	11.1	1042	ug/L	11.1	1.06%
QC value within limits for Zn 206.200 Recovery = 104.24%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICB 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/21/12 12:04:07 PM
Data Type: Reprocessed on 11/26/12 10:24:54 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	100.4	0.745	ug/L	0.7780	0.745	ug/L	0.7780	104.43%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	13.3	7.170	ug/L	2.5872	7.170	ug/L	2.5872	36.08%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	5.5	1.074	ug/L	0.2954	1.074	ug/L	0.2954	27.50%
QC value within limits for As 188.979 Recovery = Not calculated								
B	29.4	7.408	ug/L	1.5471	7.408	ug/L	1.5471	20.88%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	13.0	0.072	ug/L	0.0519	0.072	ug/L	0.0519	72.38%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-54.4	-0.008	ug/L	0.0190	-0.008	ug/L	0.0190	229.33%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	-26.7	-2.060	ug/L	1.2351	-2.060	ug/L	1.2351	59.96%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	7.3	0.020	ug/L	0.0261	0.020	ug/L	0.0261	132.08%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	17.5	0.244	ug/L	0.0396	0.244	ug/L	0.0396	16.24%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-26.8	-0.182	ug/L	0.0408	-0.182	ug/L	0.0408	22.39%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	78.8	0.719	ug/L	0.3265	0.719	ug/L	0.3265	45.39%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	47.0	1.726	ug/L	0.1735	1.726	ug/L	0.1735	10.05%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	21.5	5.252	ug/L	21.4297	5.252	ug/L	21.4297	407.99%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	9.4	0.456	ug/L	0.3732	0.456	ug/L	0.3732	81.79%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	13.8	0.239	ug/L	0.0899	0.239	ug/L	0.0899	37.53%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	14.4	0.309	ug/L	0.3308	0.309	ug/L	0.3308	107.21%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	175.1	12.43	ug/L	8.849	12.43	ug/L	8.849	71.17%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	7.0	0.104	ug/L	0.2177	0.104	ug/L	0.2177	208.86%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-4.3	-0.622	ug/L	1.1565	-0.622	ug/L	1.1565	185.98%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-0.5	-0.030	ug/L	0.3019	-0.030	ug/L	0.3019	994.40%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	1.5	0.213	ug/L	0.4754	0.213	ug/L	0.4754	223.61%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	9.8	1.854	ug/L	0.5863	1.854	ug/L	0.5863	31.63%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	5.7	0.756	ug/L	0.3768	0.756	ug/L	0.3768	49.87%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-31.9	-0.028	ug/L	0.1250	-0.028	ug/L	0.1250	440.21%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	13.0	0.266	ug/L	0.2874	0.266	ug/L	0.2874	108.20%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	5.5	0.773	ug/L	0.3244	0.773	ug/L	0.3244	41.96%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-98.1	-0.390	ug/L	0.2889	-0.390	ug/L	0.2889	74.10%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	13.7	0.151	ug/L	0.0674	0.151	ug/L	0.0674	44.57%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 11/21/12 12:12:47 PM
Data Type: Reprocessed on 11/26/12 10:24:56 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	13.3	0.099	ug/L	0.3171	0.099	ug/L	0.3171	321.54%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	359014.3	194000	ug/L	1385.7	194000	ug/L	1385.7	0.71%
QC value within limits for Al 308.215 Recovery = 97.00%								
As 188.979	-6.8	-1.321	ug/L	0.8382	-1.321	ug/L	0.8382	63.45%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2270.4	-0.332	ug/L	8.2700	-0.332	ug/L	8.2700	>999.9%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	18736.6	-0.056	ug/L	4.3091	-0.056	ug/L	4.3091	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-699.0	-0.107	ug/L	0.0174	-0.107	ug/L	0.0174	16.33%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2536906.7	195100	ug/L	1767.4	195100	ug/L	1767.4	0.91%
QC value within limits for Ca 315.887 Recovery = 97.55%								
Cd 214.440	3540.3	-0.439	ug/L	0.0905	-0.439	ug/L	0.0905	20.64%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	336.3	-0.817	ug/L	0.1219	-0.817	ug/L	0.1219	14.91%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-75.5	1.332	ug/L	0.0731	1.332	ug/L	0.0731	5.49%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	15.1	0.137	ug/L	0.0337	0.137	ug/L	0.0337	24.53%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	5019337.2	180800	ug/L	978.2	180800	ug/L	978.2	0.54%
QC value within limits for Fe 273.955 Recovery = 90.39%								
K 766.490	154.2	-77.27	ug/L	31.645	-77.27	ug/L	31.645	40.96%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3874113.4	188500	ug/L	1289.7	188500	ug/L	1289.7	0.68%
QC value within limits for Mg 285.213 Recovery = 94.23%								
Mn 257.610	-104.2	1.966	ug/L	0.5001	1.966	ug/L	0.5001	25.43%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-645.6	-0.167	ug/L	0.0656	-0.167	ug/L	0.0656	39.32%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	122.6	-36.37	ug/L	6.046	-36.37	ug/L	6.046	16.62%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	91.1	-0.288	ug/L	0.1270	-0.288	ug/L	0.1270	44.13%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-25.2	-3.599	ug/L	2.6815	-3.599	ug/L	2.6815	74.50%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	11.5	0.754	ug/L	1.0513	0.754	ug/L	1.0513	139.42%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.5	0.513	ug/L	1.2262	0.513	ug/L	1.2262	239.15%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-501.0	0.123	ug/L	4.4921	0.123	ug/L	4.4921	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-1.6	-0.212	ug/L	1.4568	-0.212	ug/L	1.4568	686.33%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2492.4	0.026	ug/L	0.0721	0.026	ug/L	0.0721	276.62%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	143.4	-0.453	ug/L	0.4170	-0.453	ug/L	0.4170	92.16%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-4.6	-0.652	ug/L	0.7461	-0.652	ug/L	0.7461	114.51%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	11114.1	-0.307	ug/L	0.8240	-0.307	ug/L	0.8240	268.28%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	911.5	1.030	ug/L	0.1036	1.030	ug/L	0.1036	10.06%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 11/21/12 12:16:53 PM
Data Type: Reprocessed on 11/26/12 10:24:57 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	135884.0	1009	ug/L	15.7	1009	ug/L	15.7	1.56%
QC value within limits for Ag 338.289 Recovery = 100.85%								
Al 308.215	352499.5	190500	ug/L	1316.6	190500	ug/L	1316.6	0.69%
QC value within limits for Al 308.215 Recovery = 95.25%								
As 188.979	2483.1	481.2	ug/L	2.00	481.2	ug/L	2.00	0.41%
QC value within limits for As 188.979 Recovery = 96.25%								
B	-2218.9	3.452	ug/L	4.4298	3.452	ug/L	4.4298	128.33%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	101754.7	469.8	ug/L	5.12	469.8	ug/L	5.12	1.09%
QC value within limits for Ba 233.527 Recovery = 93.95%								
Be 313.107	3130413.6	477.5	ug/L	2.33	477.5	ug/L	2.33	0.49%
QC value within limits for Be 313.107 Recovery = 95.51%								
Ca 315.887	2519813.3	193800	ug/L	1271.0	193800	ug/L	1271.0	0.66%
QC value within limits for Ca 315.887 Recovery = 96.90%								
Cd 214.440	346536.9	926.5	ug/L	8.54	926.5	ug/L	8.54	0.92%
QC value within limits for Cd 214.440 Recovery = 92.65%								
Co 228.616	33626.7	462.6	ug/L	4.33	462.6	ug/L	4.33	0.94%
QC value within limits for Co 228.616 Recovery = 92.52%								
Cr 267.716	69890.8	474.0	ug/L	5.45	474.0	ug/L	5.45	1.15%
QC value within limits for Cr 267.716 Recovery = 94.80%								
Cu 327.393	53947.2	492.3	ug/L	8.76	492.3	ug/L	8.76	1.78%
QC value within limits for Cu 327.393 Recovery = 98.46%								
Fe 273.955	4944104.2	178000	ug/L	401.7	178000	ug/L	401.7	0.23%
QC value within limits for Fe 273.955 Recovery = 89.02%								
K 766.490	347.0	-30.36	ug/L	29.251	-30.36	ug/L	29.251	96.35%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3895722.6	189500	ug/L	1378.6	189500	ug/L	1378.6	0.73%
QC value within limits for Mg 285.213 Recovery = 94.75%								
Mn 257.610	27620.6	483.2	ug/L	4.65	483.2	ug/L	4.65	0.96%
QC value within limits for Mn 257.610 Recovery = 96.64%								
Mo 202.031	21447.4	474.3	ug/L	0.60	474.3	ug/L	0.60	0.13%
QC value within limits for Mo 202.031 Recovery = 94.87%								
Na 589.592	142.0	-36.49	ug/L	8.266	-36.49	ug/L	8.266	22.65%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	61981.3	933.3	ug/L	9.79	933.3	ug/L	9.79	1.05%
QC value within limits for Ni 231.604 Recovery = 93.33%								
P 213.617	-33.7	-4.828	ug/L	1.3446	-4.828	ug/L	1.3446	27.85%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	14730.0	963.7	ug/L	0.47	963.7	ug/L	0.47	0.05%
QC value within limits for Pb 220.353 Recovery = 96.37%								
Sb 206.836	3240.0	469.8	ug/L	2.24	469.8	ug/L	2.24	0.48%
QC value within limits for Sb 206.836 Recovery = 93.96%								
Se 196.026	2099.9	489.0	ug/L	0.32	489.0	ug/L	0.32	0.07%
QC value within limits for Se 196.026 Recovery = 97.79%								
Sn 189.927	-10.9	-1.450	ug/L	0.7614	-1.450	ug/L	0.7614	52.52%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2400.5	-0.025	ug/L	0.0765	-0.025	ug/L	0.0765	305.26%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	163.7	0.005	ug/L	0.1578	0.005	ug/L	0.1578	>999.9%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3306.4	468.5	ug/L	0.63	468.5	ug/L	0.63	0.14%
QC value within limits for Tl 190.801 Recovery = 93.71%								
V 292.402	131920.3	494.1	ug/L	6.85	494.1	ug/L	6.85	1.39%
QC value within limits for V 292.402 Recovery = 98.83%								
Zn 206.200	84088.7	932.2	ug/L	9.89	932.2	ug/L	9.89	1.06%
QC value within limits for Zn 206.200 Recovery = 93.22%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/21/12 12:21:00 PM
Data Type: Reprocessed on 11/26/12 10:24:58 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	70243.1	521.3	ug/L	2.95	521.3	ug/L	2.95	0.57%
QC value within limits for Ag 338.289 Recovery = 104.27%								
Al 308.215	37827.6	20450	ug/L	264.6	20450	ug/L	264.6	1.29%
QC value within limits for Al 308.215 Recovery = 102.24%								
As 188.979	5250.3	1018	ug/L	8.0	1018	ug/L	8.0	0.79%
QC value within limits for As 188.979 Recovery = 101.75%								
B	3975.3	1065	ug/L	15.2	1065	ug/L	15.2	1.43%
QC value within limits for B Recovery = 106.53%								
Ba 233.527	179362.3	999.3	ug/L	2.24	999.3	ug/L	2.24	0.22%
QC value within limits for Ba 233.527 Recovery = 99.93%								
Be 313.107	6646468.8	1014	ug/L	7.8	1014	ug/L	7.8	0.77%
QC value within limits for Be 313.107 Recovery = 101.39%								
Ca 315.887	673520.3	51800	ug/L	160.2	51800	ug/L	160.2	0.31%
QC value within limits for Ca 315.887 Recovery = 103.60%								
Cd 214.440	379304.1	1024	ug/L	2.3	1024	ug/L	2.3	0.23%
QC value within limits for Cd 214.440 Recovery = 102.42%								
Co 228.616	73035.4	1014	ug/L	4.0	1014	ug/L	4.0	0.39%
QC value within limits for Co 228.616 Recovery = 101.37%								
Cr 267.716	150081.1	1014	ug/L	3.2	1014	ug/L	3.2	0.31%
QC value within limits for Cr 267.716 Recovery = 101.38%								
Cu 327.393	108848.4	993.3	ug/L	2.45	993.3	ug/L	2.45	0.25%
QC value within limits for Cu 327.393 Recovery = 99.33%								
Fe 273.955	579494.7	20790	ug/L	39.7	20790	ug/L	39.7	0.19%
QC value within limits for Fe 273.955 Recovery = 103.95%								
K 766.490	81434.0	19890	ug/L	121.3	19890	ug/L	121.3	0.61%
QC value within limits for K 766.490 Recovery = 99.45%								
Mg 285.213	1076303.0	52320	ug/L	177.1	52320	ug/L	177.1	0.34%
QC value within limits for Mg 285.213 Recovery = 104.64%								
Mn 257.610	58378.5	1013	ug/L	12.8	1013	ug/L	12.8	1.27%
QC value within limits for Mn 257.610 Recovery = 101.27%								
Mo 202.031	50425.3	1085	ug/L	2.4	1085	ug/L	2.4	0.22%
QC value within limits for Mo 202.031 Recovery = 108.48%								
Na 589.592	357117.3	25340	ug/L	96.6	25340	ug/L	96.6	0.38%
QC value within limits for Na 589.592 Recovery = 101.36%								
Ni 231.604	69051.5	1040	ug/L	5.0	1040	ug/L	5.0	0.48%
QC value within limits for Ni 231.604 Recovery = 104.03%								
P 213.617	36158.6	5173	ug/L	20.5	5173	ug/L	20.5	0.40%
QC value within limits for P 213.617 Recovery = 103.47%								
Pb 220.353	15964.6	1044	ug/L	6.9	1044	ug/L	6.9	0.66%
QC value within limits for Pb 220.353 Recovery = 104.45%								
Sb 206.836	7323.6	1062	ug/L	5.6	1062	ug/L	5.6	0.52%
QC value within limits for Sb 206.836 Recovery = 106.20%								
Se 196.026	5515.8	1049	ug/L	9.2	1049	ug/L	9.2	0.88%
QC value within limits for Se 196.026 Recovery = 104.91%								
Sn 189.927	8102.7	1077	ug/L	11.2	1077	ug/L	11.2	1.04%
QC value within limits for Sn 189.927 Recovery = 107.72%								
Sr 421.552	1141536.8	1014	ug/L	3.6	1014	ug/L	3.6	0.36%
QC value within limits for Sr 421.552 Recovery = 101.44%								
Ti 337.279	51072.8	1043	ug/L	13.6	1043	ug/L	13.6	1.30%
QC value within limits for Ti 337.279 Recovery = 104.34%								
Tl 190.801	7247.3	1027	ug/L	2.4	1027	ug/L	2.4	0.24%
QC value within limits for Tl 190.801 Recovery = 102.70%								
V 292.402	251508.2	1024	ug/L	1.5	1024	ug/L	1.5	0.14%
QC value within limits for V 292.402 Recovery = 102.36%								
Zn 206.200	92237.0	1037	ug/L	3.3	1037	ug/L	3.3	0.32%
QC value within limits for Zn 206.200 Recovery = 103.69%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/21/12 12:24:12 PM
Data Type: Reprocessed on 11/26/12 10:24:59 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	95.7	0.710	ug/L	0.6933	0.710	ug/L	0.6933	97.60%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	20.8	11.22	ug/L	3.743	11.22	ug/L	3.743	33.35%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	2.5	0.482	ug/L	1.5598	0.482	ug/L	1.5598	323.61%
QC value within limits for As 188.979 Recovery = Not calculated								
B	32.3	8.148	ug/L	0.8130	8.148	ug/L	0.8130	9.98%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	17.1	0.093	ug/L	0.0489	0.093	ug/L	0.0489	52.55%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	13.2	0.002	ug/L	0.0084	0.002	ug/L	0.0084	414.33%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	-1.2	-0.098	ug/L	0.3704	-0.098	ug/L	0.3704	379.06%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	51.2	0.138	ug/L	0.0846	0.138	ug/L	0.0846	61.22%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	14.2	0.199	ug/L	0.1703	0.199	ug/L	0.1703	85.60%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-12.1	-0.081	ug/L	0.1153	-0.081	ug/L	0.1153	141.86%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	155.6	1.420	ug/L	0.4096	1.420	ug/L	0.4096	28.84%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	157.7	5.657	ug/L	0.3945	5.657	ug/L	0.3945	6.97%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	116.0	28.36	ug/L	31.686	28.36	ug/L	31.686	111.71%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	22.9	1.121	ug/L	0.3520	1.121	ug/L	0.3520	31.41%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	11.7	0.204	ug/L	0.1417	0.204	ug/L	0.1417	69.37%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	25.4	0.547	ug/L	0.4605	0.547	ug/L	0.4605	84.19%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	178.7	12.68	ug/L	3.399	12.68	ug/L	3.399	26.81%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	1.9	0.028	ug/L	0.2239	0.028	ug/L	0.2239	801.87%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-4.7	-0.670	ug/L	0.4824	-0.670	ug/L	0.4824	72.00%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	3.4	0.221	ug/L	0.2924	0.221	ug/L	0.2924	132.57%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	7.7	1.121	ug/L	0.6946	1.121	ug/L	0.6946	61.96%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	14.7	2.773	ug/L	2.2064	2.773	ug/L	2.2064	79.56%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	10.3	1.366	ug/L	0.3766	1.366	ug/L	0.3766	27.57%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	150.9	0.134	ug/L	0.0926	0.134	ug/L	0.0926	69.01%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	5.2	0.107	ug/L	0.2754	0.107	ug/L	0.2754	257.13%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.2	1.165	ug/L	0.5276	1.165	ug/L	0.5276	45.27%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	77.9	0.317	ug/L	0.3253	0.317	ug/L	0.3253	102.77%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	96.4	1.073	ug/L	0.3027	1.073	ug/L	0.3027	28.21%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 95
Sample ID: CCV2 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 11/21/12 6:24:38 PM
Data Type: Reprocessed on 11/26/12 10:26:24 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 338.289	49298.0	365.9 ug/L	3.84	365.9 ug/L	3.84	1.05%
QC value within limits for Ag 338.289 Recovery = 97.57%						
Al 308.215	28220.7	15260 ug/L	145.2	15260 ug/L	145.2	0.95%
QC value within limits for Al 308.215 Recovery = 101.71%						
As 188.979	4067.5	788.3 ug/L	0.55	788.3 ug/L	0.55	0.07%
QC value within limits for As 188.979 Recovery = 105.11%						
B	2924.5	783.6 ug/L	13.66	783.6 ug/L	13.66	1.74%
QC value within limits for B Recovery = 104.48%						
Ba 233.527	135304.5	754.1 ug/L	2.43	754.1 ug/L	2.43	0.32%
QC value within limits for Ba 233.527 Recovery = 100.55%						
Be 313.107	5033518.3	767.9 ug/L	2.99	767.9 ug/L	2.99	0.39%
QC value within limits for Be 313.107 Recovery = 102.38%						
Ca 315.887	494280.0	38010 ug/L	671.0	38010 ug/L	671.0	1.77%
QC value within limits for Ca 315.887 Recovery = 101.37%						
Cd 214.440	291570.9	787.3 ug/L	2.80	787.3 ug/L	2.80	0.36%
QC value within limits for Cd 214.440 Recovery = 104.98%						
Co 228.616	55792.0	774.3 ug/L	4.31	774.3 ug/L	4.31	0.56%
QC value within limits for Co 228.616 Recovery = 103.24%						
Cr 267.716	114244.0	771.7 ug/L	1.56	771.7 ug/L	1.56	0.20%
QC value within limits for Cr 267.716 Recovery = 102.89%						
Cu 327.393	82007.3	748.3 ug/L	3.43	748.3 ug/L	3.43	0.46%
QC value within limits for Cu 327.393 Recovery = 99.78%						
Fe 273.955	425746.8	15270 ug/L	31.0	15270 ug/L	31.0	0.20%
QC value within limits for Fe 273.955 Recovery = 101.82%						
K 766.490	62678.7	15310 ug/L	229.8	15310 ug/L	229.8	1.50%
QC value within limits for K 766.490 Recovery = 102.06%						
Mg 285.213	771434.0	37500 ug/L	588.5	37500 ug/L	588.5	1.57%
QC value within limits for Mg 285.213 Recovery = 100.00%						
Mn 257.610	45147.3	783.3 ug/L	8.54	783.3 ug/L	8.54	1.09%
QC value within limits for Mn 257.610 Recovery = 104.44%						
Mo 202.031	35239.9	758.2 ug/L	0.75	758.2 ug/L	0.75	0.10%
QC value within limits for Mo 202.031 Recovery = 101.09%						
Na 589.592	273291.9	19390 ug/L	306.9	19390 ug/L	306.9	1.58%
QC value within limits for Na 589.592 Recovery = 103.42%						
Ni 231.604	51692.3	778.8 ug/L	2.96	778.8 ug/L	2.96	0.38%
QC value within limits for Ni 231.604 Recovery = 103.84%						
P 213.617	26720.8	3823 ug/L	15.7	3823 ug/L	15.7	0.41%
QC value within limits for P 213.617 Recovery = 101.95%						
Pb 220.353	12469.3	815.8 ug/L	3.42	815.8 ug/L	3.42	0.42%
QC value within limits for Pb 220.353 Recovery = 108.77%						
Sb 206.836	5199.4	753.9 ug/L	3.67	753.9 ug/L	3.67	0.49%
QC value within limits for Sb 206.836 Recovery = 100.52%						
Se 196.026	4239.1	805.9 ug/L	4.28	805.9 ug/L	4.28	0.53%
QC value within limits for Se 196.026 Recovery = 107.45%						
Sn 189.927	6371.3	847.1 ug/L	6.77	847.1 ug/L	6.77	0.80%
QC value greater than the upper limit for Sn 189.927 Recovery = 112.94%						
Sr 421.552	869533.5	772.7 ug/L	12.89	772.7 ug/L	12.89	1.67%
QC value within limits for Sr 421.552 Recovery = 103.02%						
Ti 337.279	36877.0	753.4 ug/L	8.14	753.4 ug/L	8.14	1.08%
QC value within limits for Ti 337.279 Recovery = 100.45%						
Tl 190.801	5390.6	763.9 ug/L	4.04	763.9 ug/L	4.04	0.53%
QC value within limits for Tl 190.801 Recovery = 101.85%						
V 292.402	191188.5	777.3 ug/L	0.92	777.3 ug/L	0.92	0.12%
QC value within limits for V 292.402 Recovery = 103.64%						
Zn 206.200	71753.1	806.5 ug/L	2.89	806.5 ug/L	2.89	0.36%
QC value within limits for Zn 206.200 Recovery = 107.53%						

QC Failed. Continue with analysis.

Sequence No.: 96
Sample ID: CCB 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/21/12 6:28:07 PM
Data Type: Reprocessed on 11/26/12 10:26:25 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-73.2	-0.543	ug/L	0.7400	-0.543	ug/L	0.7400	136.28%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	51.2	27.68	ug/L	5.958	27.68	ug/L	5.958	21.52%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	0.3	0.049	ug/L	0.4026	0.049	ug/L	0.4026	813.94%
QC value within limits for As 188.979 Recovery = Not calculated								
B	48.9	12.40	ug/L	1.404	12.40	ug/L	1.404	11.33%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	46.2	0.245	ug/L	0.0217	0.245	ug/L	0.0217	8.85%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-1096.9	-0.167	ug/L	0.0187	-0.167	ug/L	0.0187	11.19%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	11.9	0.906	ug/L	2.4915	0.906	ug/L	2.4915	274.95%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	47.8	0.128	ug/L	0.0341	0.128	ug/L	0.0341	26.66%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	41.0	0.566	ug/L	0.4483	0.566	ug/L	0.4483	79.25%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-4.1	-0.028	ug/L	0.0436	-0.028	ug/L	0.0436	154.98%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	254.6	2.323	ug/L	0.2683	2.323	ug/L	0.2683	11.55%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	742.6	26.76	ug/L	2.624	26.76	ug/L	2.624	9.80%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	181.3	44.32	ug/L	36.900	44.32	ug/L	36.900	83.26%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	67.0	3.284	ug/L	1.1855	3.284	ug/L	1.1855	36.10%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	66.5	1.156	ug/L	0.1994	1.156	ug/L	0.1994	17.26%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-0.2	-0.002	ug/L	0.1919	-0.002	ug/L	0.1919	>999.9%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	166.3	11.79	ug/L	8.187	11.79	ug/L	8.187	69.42%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-32.6	-0.495	ug/L	0.2360	-0.495	ug/L	0.2360	47.71%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-28.1	-4.018	ug/L	0.4942	-4.018	ug/L	0.4942	12.30%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-1.8	-0.115	ug/L	0.9109	-0.115	ug/L	0.9109	790.70%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-0.6	-0.082	ug/L	1.4703	-0.082	ug/L	1.4703	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	19.0	3.591	ug/L	2.2434	3.591	ug/L	2.2434	62.47%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	4.7	0.626	ug/L	0.7279	0.626	ug/L	0.7279	116.28%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-2.9	-0.003	ug/L	0.0528	-0.003	ug/L	0.0528	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	54.8	1.121	ug/L	0.2083	1.121	ug/L	0.2083	18.58%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	15.8	2.234	ug/L	0.3231	2.234	ug/L	0.3231	14.46%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-29.2	-0.124	ug/L	0.0635	-0.124	ug/L	0.0635	51.10%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	85.8	0.954	ug/L	0.1826	0.954	ug/L	0.1826	19.13%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 107
Sample ID: CCV1 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/21/12 7:20:23 PM
Data Type: Reprocessed on 11/26/12 10:26:36 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	67995.0	504.7	ug/L	8.90	504.7	ug/L	8.90	1.76%
QC value within limits for Ag 338.289 Recovery = 100.93%								
Al 308.215	38142.7	20620	ug/L	109.3	20620	ug/L	109.3	0.53%
QC value within limits for Al 308.215 Recovery = 103.10%								
As 188.979	5441.1	1055	ug/L	8.8	1055	ug/L	8.8	0.84%
QC value within limits for As 188.979 Recovery = 105.45%								
B	3889.4	1042	ug/L	3.8	1042	ug/L	3.8	0.36%
QC value within limits for B Recovery = 104.19%								
Ba 233.527	180698.2	1007	ug/L	11.6	1007	ug/L	11.6	1.16%
QC value within limits for Ba 233.527 Recovery = 100.72%								
Be 313.107	6703598.9	1023	ug/L	14.2	1023	ug/L	14.2	1.39%
QC value within limits for Be 313.107 Recovery = 102.26%								
Ca 315.887	672664.9	51730	ug/L	419.0	51730	ug/L	419.0	0.81%
QC value within limits for Ca 315.887 Recovery = 103.47%								
Cd 214.440	382907.2	1034	ug/L	11.3	1034	ug/L	11.3	1.10%
QC value within limits for Cd 214.440 Recovery = 103.40%								
Co 228.616	73959.7	1026	ug/L	10.7	1026	ug/L	10.7	1.04%
QC value within limits for Co 228.616 Recovery = 102.64%								
Cr 267.716	151705.8	1025	ug/L	11.6	1025	ug/L	11.6	1.13%
QC value within limits for Cr 267.716 Recovery = 102.48%								
Cu 327.393	109178.0	996.3	ug/L	13.94	996.3	ug/L	13.94	1.40%
QC value within limits for Cu 327.393 Recovery = 99.63%								
Fe 273.955	565319.6	20280	ug/L	238.4	20280	ug/L	238.4	1.18%
QC value within limits for Fe 273.955 Recovery = 101.39%								
K 766.490	85703.0	20930	ug/L	148.0	20930	ug/L	148.0	0.71%
QC value within limits for K 766.490 Recovery = 104.67%								
Mg 285.213	1047114.3	50900	ug/L	383.4	50900	ug/L	383.4	0.75%
QC value within limits for Mg 285.213 Recovery = 101.80%								
Mn 257.610	59468.2	1032	ug/L	4.8	1032	ug/L	4.8	0.47%
QC value within limits for Mn 257.610 Recovery = 103.17%								
Mo 202.031	47809.1	1029	ug/L	11.6	1029	ug/L	11.6	1.13%
QC value within limits for Mo 202.031 Recovery = 102.86%								
Na 589.592	369334.4	26210	ug/L	234.6	26210	ug/L	234.6	0.90%
QC value within limits for Na 589.592 Recovery = 104.83%								
Ni 231.604	67762.1	1021	ug/L	12.0	1021	ug/L	12.0	1.18%
QC value within limits for Ni 231.604 Recovery = 102.08%								
P 213.617	35587.4	5092	ug/L	72.8	5092	ug/L	72.8	1.43%
QC value within limits for P 213.617 Recovery = 101.83%								
Pb 220.353	16522.7	1081	ug/L	5.2	1081	ug/L	5.2	0.48%
QC value within limits for Pb 220.353 Recovery = 108.10%								
Sb 206.836	7180.8	1041	ug/L	5.9	1041	ug/L	5.9	0.57%
QC value within limits for Sb 206.836 Recovery = 104.13%								
Se 196.026	5635.0	1071	ug/L	6.5	1071	ug/L	6.5	0.60%
QC value within limits for Se 196.026 Recovery = 107.12%								
Sn 189.927	8770.1	1166	ug/L	14.2	1166	ug/L	14.2	1.22%
QC value greater than the upper limit for Sn 189.927 Recovery = 116.60%								
Sr 421.552	1178501.0	1047	ug/L	8.9	1047	ug/L	8.9	0.85%
QC value within limits for Sr 421.552 Recovery = 104.72%								
Ti 337.279	49923.2	1020	ug/L	4.4	1020	ug/L	4.4	0.43%
QC value within limits for Ti 337.279 Recovery = 101.99%								
Tl 190.801	7252.9	1028	ug/L	4.7	1028	ug/L	4.7	0.46%
QC value within limits for Tl 190.801 Recovery = 102.78%								
V 292.402	254466.8	1035	ug/L	11.3	1035	ug/L	11.3	1.10%
QC value within limits for V 292.402 Recovery = 103.48%								
Zn 206.200	93603.3	1052	ug/L	11.2	1052	ug/L	11.2	1.07%
QC value within limits for Zn 206.200 Recovery = 105.23%								

QC Failed. Continue with analysis.

Sequence No.: 108
Sample ID: CCB 121121EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/21/12 7:24:22 PM
Data Type: Reprocessed on 11/26/12 10:26:37 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121121EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	43.3	0.321	ug/L	0.8328	0.321	ug/L	0.8328	259.18%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	15.9	8.554	ug/L	2.2007	8.554	ug/L	2.2007	25.73%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	-0.3	-0.048	ug/L	0.3997	-0.048	ug/L	0.3997	824.25%
QC value within limits for As 188.979 Recovery = Not calculated								
B	55.5	13.99	ug/L	2.498	13.99	ug/L	2.498	17.85%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	35.4	0.198	ug/L	0.0502	0.198	ug/L	0.0502	25.37%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-946.7	-0.144	ug/L	0.0166	-0.144	ug/L	0.0166	11.47%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	23.3	1.782	ug/L	0.5585	1.782	ug/L	0.5585	31.34%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	87.5	0.237	ug/L	0.0491	0.237	ug/L	0.0491	20.75%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	25.1	0.349	ug/L	0.1209	0.349	ug/L	0.1209	34.60%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-1.8	-0.013	ug/L	0.0494	-0.013	ug/L	0.0494	371.47%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	165.7	1.512	ug/L	0.2601	1.512	ug/L	0.2601	17.20%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	35.5	1.300	ug/L	1.2089	1.300	ug/L	1.2089	92.97%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	423.5	103.5	ug/L	16.43	103.5	ug/L	16.43	15.87%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	44.1	2.140	ug/L	0.4866	2.140	ug/L	0.4866	22.75%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	27.0	0.469	ug/L	0.1004	0.469	ug/L	0.1004	21.40%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	20.9	0.449	ug/L	0.0910	0.449	ug/L	0.0910	20.26%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	870.6	61.78	ug/L	3.581	61.78	ug/L	3.581	5.80%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-28.1	-0.426	ug/L	0.2274	-0.426	ug/L	0.2274	53.38%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-9.1	-1.301	ug/L	0.8862	-1.301	ug/L	0.8862	68.12%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	10.3	0.674	ug/L	1.2508	0.674	ug/L	1.2508	185.49%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	0.8	0.110	ug/L	0.7096	0.110	ug/L	0.7096	643.05%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	15.7	2.950	ug/L	1.6882	2.950	ug/L	1.6882	57.23%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	4.5	0.598	ug/L	0.5670	0.598	ug/L	0.5670	94.74%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	74.6	0.066	ug/L	0.1500	0.066	ug/L	0.1500	225.71%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	23.0	0.469	ug/L	0.0787	0.469	ug/L	0.0787	16.78%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	20.3	2.877	ug/L	0.3701	2.877	ug/L	0.3701	12.87%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-75.7	-0.297	ug/L	0.2919	-0.297	ug/L	0.2919	98.21%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	186.9	2.083	ug/L	0.2175	2.083	ug/L	0.2175	10.44%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/21/12	11/21/12	#6010B-121121C-AY71935

Metals SC-Blank-REG MDLs
Printed: 11/26/12 11:53:24 AM

Sequence No.: 97
Sample ID: 121121C-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 116
Date Collected: 11/21/12 6:32:27 PM
Data Type: Reprocessed on 11/26/12 10:26:26 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121121C-3050-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	387.9	2.879	ug/L	0.6195	0.115	mg/kg	0.0248	21.52%
Al 308.215	33.7	18.12	ug/L	5.522	0.725	mg/kg	0.2209	30.48%
As 188.979	1.3	0.251	ug/L	1.0570	0.010	mg/kg	0.0423	421.93%
B	43.2	10.98	ug/L	1.079	0.439	mg/kg	0.0432	9.83%
Ba 233.527	34.4	0.178	ug/L	0.0427	0.007	mg/kg	0.0017	23.92%
Be 313.107	-1103.8	-0.168	ug/L	0.0049	-0.007	mg/kg	0.0002	2.92%
Ca 315.887	479.9	36.90	ug/L	0.627	1.476	mg/kg	0.0251	1.70%
Cd 214.440	152.2	0.411	ug/L	0.0385	0.016	mg/kg	0.0015	9.37%
Co 228.616	42.0	0.582	ug/L	0.0538	0.023	mg/kg	0.0022	9.24%
Cr 267.716	68.1	0.458	ug/L	0.0737	0.018	mg/kg	0.0029	16.11%
Cu 327.393	707.8	6.459	ug/L	0.2401	0.258	mg/kg	0.0096	3.72%
Fe 273.955	699.2	25.21	ug/L	1.950	1.009	mg/kg	0.0780	7.73%
K 766.490	64.1	15.64	ug/L	55.624	0.626	mg/kg	2.2250	355.68%
Mg 285.213	37.7	1.858	ug/L	0.8454	0.074	mg/kg	0.0338	45.49%
Mn 257.610	119.9	2.084	ug/L	0.0267	0.083	mg/kg	0.0011	1.28%
Mo 202.031	65.5	1.409	ug/L	0.1306	0.056	mg/kg	0.0052	9.27%
Na 589.592	160.5	11.38	ug/L	5.391	0.455	mg/kg	0.2157	47.36%
Ni 231.604	-98.4	-1.487	ug/L	0.0328	-0.059	mg/kg	0.0013	2.21%
P 213.617	18.9	2.710	ug/L	0.8468	0.108	mg/kg	0.0339	31.25%
Pb 220.353	-46.1	-3.015	ug/L	0.4562	-0.121	mg/kg	0.0182	15.13%
Sb 206.836	0.1	0.014	ug/L	0.0822	0.001	mg/kg	0.0033	596.18%
Se 196.026	31.4	5.937	ug/L	1.0559	0.237	mg/kg	0.0422	17.78%
Sn 189.927	-16.2	-2.155	ug/L	0.1274	-0.086	mg/kg	0.0051	5.91%
Sr 421.552	-36.8	-0.033	ug/L	0.0129	-0.001	mg/kg	0.0005	38.91%
Ti 337.279	95.1	1.944	ug/L	0.4173	0.078	mg/kg	0.0167	21.46%
Tl 190.801	1.5	0.217	ug/L	0.3142	0.009	mg/kg	0.0126	144.57%
V 292.402	-74.8	-0.282	ug/L	0.1947	-0.011	mg/kg	0.0078	69.10%
Zn 206.200	133.3	1.487	ug/L	0.2554	0.059	mg/kg	0.0102	17.17%

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	9.8	98.0	80-120	11/21/12	11/21/12	#6010B-121121C-AY71935

Comments: _____

Sequence No.: 98
Sample ID: 121121C-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 117
Date Collected: 11/21/12 6:36:50 PM
Data Type: Reprocessed on 11/26/12 10:26:27 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121121C-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	12260.0	90.99	ug/L	0.100	3.640	mg/kg	0.0040	0.11%
Al 308.215	3438.2	1860	ug/L	7.5	74.41	mg/kg	0.299	0.40%
As 188.979	1178.6	228.4	ug/L	1.36	9.136	mg/kg	0.0545	0.60%
B	908.8	230.8	ug/L	2.66	9.234	mg/kg	0.1064	1.15%
Ba 233.527	40339.3	226.9	ug/L	1.55	9.076	mg/kg	0.0621	0.68%
Be 313.107	302673.7	46.17	ug/L	0.363	1.847	mg/kg	0.0145	0.79%
Ca 315.887	299479.0	23030	ug/L	34.6	921.4	mg/kg	1.38	0.15%
Cd 214.440	17565.4	47.55	ug/L	0.294	1.902	mg/kg	0.0118	0.62%
Co 228.616	17325.8	240.5	ug/L	0.81	9.621	mg/kg	0.0322	0.34%
Cr 267.716	36203.3	244.4	ug/L	1.43	9.775	mg/kg	0.0570	0.58%
Cu 327.393	25123.3	229.3	ug/L	2.68	9.170	mg/kg	0.1073	1.17%
Fe 273.955	27228.2	959.8	ug/L	3.69	38.39	mg/kg	0.148	0.38%
K 766.490	17533.6	4284	ug/L	23.0	171.4	mg/kg	0.92	0.54%
Mg 285.213	449338.2	21830	ug/L	25.4	873.4	mg/kg	1.02	0.12%
Mn 257.610	14119.6	244.2	ug/L	0.37	9.769	mg/kg	0.0149	0.15%
Mo 202.031	11491.6	246.9	ug/L	1.27	9.876	mg/kg	0.0508	0.51%
Na 589.592	321880.1	22850	ug/L	3.7	914.1	mg/kg	0.15	0.02%
Ni 231.604	16057.8	241.9	ug/L	1.18	9.676	mg/kg	0.0472	0.49%
P 213.617	12513.7	1790	ug/L	9.0	71.62	mg/kg	0.362	0.50%
Pb 220.353	3763.2	246.2	ug/L	0.74	9.848	mg/kg	0.0296	0.30%
Sb 206.836	1499.2	217.4	ug/L	2.06	8.695	mg/kg	0.0825	0.95%
Se 196.026	1172.8	220.5	ug/L	1.54	8.819	mg/kg	0.0615	0.70%
Sn 189.927	2000.6	266.0	ug/L	1.93	10.64	mg/kg	0.077	0.73%
Sr 421.552	259671.3	230.7	ug/L	0.20	9.227	mg/kg	0.0080	0.09%
Ti 337.279	11466.4	234.1	ug/L	0.78	9.364	mg/kg	0.0312	0.33%
Tl 190.801	1594.4	225.9	ug/L	0.77	9.038	mg/kg	0.0308	0.34%
V 292.402	60383.0	246.5	ug/L	1.96	9.860	mg/kg	0.0782	0.79%
Zn 206.200	42851.7	480.0	ug/L	4.13	19.20	mg/kg	0.165	0.86%

Metals Standards Log Book # 36 Page # 043

Be 11/21/12

6020/6020A

(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A

Today's Date: 11/21/12
Expires: 11/28/12

Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL Di Water
Lot #L12065
20 mL HCL / 2000mL Di Water
Lot #51358
Expires 11/28/12

Internal Standard Mix: Prep 11/19/2012

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1.0% HCL 11/21/12

Standard 3 11/28/12

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	ABS STDS	012512-30926
25 uL	CCV-B	ABS STDS	021312-30928
25 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1.0% HCL 11/21/12

Intermediate-Sb 11/28/12
100 uL of Sb STD (CPI 12A011-30298) in 10 mL of 1% HNO3/1.0% HCL
ICV-Sb 11/28/12
100 uL of Intermediate-Sb in 10 mL of 1% HNO3/1.0% HCL

Be 11/21/12

Standard 2 11/28/12

Amount	STD	
500 uL	Standard 4	11/21/12

Prepared in 50 mL of 1% HNO3/1 0% HCL 11/21/12

Standard 1 11/28/12

Amount	STD	
50 uL	Standard 4	11/21/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/21/12

ICP-MS ICV 11/28/12

Amount	STD		
50 uL	QCS ICV A	CPI	11C184-30611
50 uL	QCS ICV B	CPI	11C184-30612

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/21/12

ICSA Prep: 11/28/12

1 mL	ICSA	CPI	12I082-31307

Prepared in 5 mL of 1% HNO3/1.0% HCL 11/21/12

ICSAB Prep: 11/28/12

1mL	ICSA	CPI	12I082-31307
0.025mL	INT	O2SI	1032370-30265

Prepared in 5 mL of 1% HNO3/1.0% HCL 11/21/12

ICP-LDR 11/28/12

Amount	STD		
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 10 mL of 1% HNO3/1.0% HCL 11/21/12

11-21-12
EA 11-20-12
@EA 11-21-12

6010B-C

(A)

1%HNO3 / 5%HCl BLK					6010B/6010C ICSA				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
100 mL	HCL	EMD	UN1789-265	10/22/12	1mL	Al	CPI	11J015-30092	05/28/13
20 mL	HNO3	JT BAKER	L10023-266	10/24/12	1mL	Ca	CPI	11J031-29989	05/14/13
Prepared in 2000 ml DI Water					1mL	Mg	CPI	11K178-30093	05/28/13
STD 1 / LDL 6010B/6010C					1mL	Fe	O2SI	1030787-30616	05/17/13
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	Prepared in 50 ml 1%HNO3/5%HCl				
0.5 mL	6010 LDL	O2SI	1039165-31300	10/01/13	6010B/6010C ICSAB				
Prepared in 50 ml 1%HNO3/5%HCl					1mL	Al	CPI	11J015-30092	05/28/13
STD 3 / HDL 6010B/6010C					1mL	Ca	CPI	11J031-29989	05/14/13
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15	1mL	Mg	CPI	11K178-30093	05/28/13
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15	1mL	Fe	O2SI	1030787-30616	05/17/13
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15	0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 100 ml 1%HNO3 / 5%HCl					Prepared in 50 ml 1%HNO3/5%HCl				
STD 2 / CCV1 6010B/6010C/6010C					6010B/6010C ICV				
AMOUNT	STD	PREP DATE	EXP DATE		0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
25mL	STD 3	Today	1 week		0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
25mL	1%HNO3/5%HCl	Today	1 week		Prepared in 50ml 1%HNO3/5%HCl				
CCV2 6010B/6010C									
AMOUNT	STD	PREP DATE	EXP DATE						
15mL	STD 3	Today	1 week						
25mL	1%HNO3/5%HCl	Today	1 week						

EA 11-20-12 11-21-12
@EA 11-21-12

NM 11/26/12

TCLP FLUID#1	Lot # NM 11/26/12	DATE:	11/26/12
Glacial Acetic Acid		EXP:	11/26/13
NaOH	RMS #B04B49D4-020-2699	PREP BY:	NM

Procedure: Add 114mL of Glacial acetic acid to 18L of DI H2O. Add 1286mL of 1N NaOH. Bring up to 20L volume with DI H2O. When correctly prepared, the pH is 4.93 ± 0.05. If the pH is not within the range you must re-prepare the fluid.

*LO 11-21-12

*EA book Edit for LO 11-21-12 EA 11-26-12

Hg WORKING STANDARD 7470A/7471/245.1

1ml X 10ug/ml Hg STOCK STD. (11/13/12LO)/200ml 1% HNO3 Lot#L12065
1ml X 10ug/ml Hg STOCK ICV (11/13/12LO)/200ml 1% HNO3 Lot#L12065
Final concentration is 50 ug/L. Expires.....11-21-12..... EA 11-26-12

_M3050

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121121C **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 1039704-31514		
Spiked ID 2	LCSW LOT# 1039705-31515		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	11/21/12 2:00:00 PM
Witnessed By	LO	Date:	11/21/12 2:00:00 PM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	11/21/12 16:30

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121121C Blk				2.50g	100mL	11/21/12 14:00	equip: Modblock4
2	121121C LCS		1mL	1+2	2.50g	100mL	11/21/12 14:00	equip: Modblock4
3	AY71799	AY71799M01			2.56g	100mL	11/21/12 14:00	equip: Modblock4
4	AY71802	AY71802M01			2.58g	100mL	11/21/12 14:00	equip: Modblock4
5	AY71805	AY71805M01			2.47g	100mL	11/21/12 14:00	equip: Modblock4
6	AY71932	AY71932M01			2.58g	100mL	11/21/12 14:00	equip: Modblock4
7	AY71935	AY71935M01			2.53g	100mL	11/21/12 14:00	equip: Modblock4
8	AY71935 MS	AY71935M01	2mL	1+2	2.53g	100mL	11/21/12 14:00	equip: Modblock4
9	AY71935 MSD	AY71935M01	2mL	1+2	2.53g	100mL	11/21/12 14:00	equip: Modblock4

Solvent and Lot#
1:1 HNO3 11-9-12
HNO3 J.T.B. L10023 0276
H2O2 J.T.B K20J00 0254
HCL EMD Lot# 4112030 0277

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	BA
Date	11-21-12
Time	16:30
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	11/21/12 2:29:48 PM

Reviewed By: BA **Date:** 11-21-12

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	21 Nov 2012	11:42	CalBlk 121121EA I:PB O:EA		121121B6010	1.
2	21 Nov 2012	11:46	STD 1 121121EA I:PB O:EA		121121B6010	1.
3	21 Nov 2012	11:50	STD 2 121121EA I:PB O:EA		121121B6010	1.
4	21 Nov 2012	11:53	STD 3 121121EA I:PB O:EA		121121B6010	1.
5	21 Nov 2012	11:56	ICV 121121EA I:PB O:EA		121121B6010	1.
6	21 Nov 2012	12:04	ICB 121121EA I:PB O:EA		121121B6010	1.
8	21 Nov 2012	12:12	ICSA 121121EA I:PB O:EA		121121B6010	1.
9	21 Nov 2012	12:16	ICSAB 121121EA I:PB O:EA		121121B6010	1.
10	21 Nov 2012	12:21	CCV1 121121EA I:PB O:EA		121121B6010	1.
11	21 Nov 2012	12:24	CCB 121121EA I:PB O:EA		121121B6010	1.
95	21 Nov 2012	18:24	CCV2 121121EA I:PB O:EA		121121B6010	1.
96	21 Nov 2012	18:28	CCB 121121EA I:PB O:EA		121121B6010	1.
97	21 Nov 2012	18:32	121121C-3050-BLK		121121B6010	1.
98	21 Nov 2012	18:36	121121C-3050-LCS		121121B6010	1.
102	21 Nov 2012	18:55	AY71932M01		121121B6010	1.
103	21 Nov 2012	19:00	AY71935M01		121121B6010	1.
106	21 Nov 2012	19:14	AY71935M01-A		121121B6010	1.
107	21 Nov 2012	19:20	CCV1 121121EA I:PB O:EA		121121B6010	1.
108	21 Nov 2012	19:24	CCB 121121EA I:PB O:EA		121121B6010	1.

Wetlab Results

ARF: 69306

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
APPL ID: AY71932	-Client Sample ID: GT12025M		-Sample Collection Date: 11/14/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	75.3	2.0	%	11/27/12	11/28/12
APPL ID: AY71935	-Client Sample ID: GT12026M		-Sample Collection Date: 11/14/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	79.3	2.0	%	11/27/12	11/28/12

Printed: 11/30/12 10:26:35 AM

WETLAB

Sample/Sample Duplicate Results

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Project: 748350.02000 CSSA

Sample ID: AY71932
Client ID: GT12025M

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

ARF: 69306

Method	Analyte	Sample ID	Sample Result	Sample Dup Result	RPD	RPD Max	PQL	Units	Sample Extract Date	Sample Analysis Date	Sample Dup Extract Date	Sample Dup Analysis Date
CLP MOIS	MOISTURE	AY71932	75.3	74.9	0.5	20	2.0	%	11/27/12	11/28/12	11/27/12	11/28/12

% Moisture

Batch: QCG 121127-M004559

Method: CLP 4.0

Date: 11/27/12 16:16

Sample	Container	Pan (g)	Pan+Wet (g)	Pan+Dry 1 (g)	Pan+Dry 2 (g)	Moisture (%)	Comments
AY71935	m01	0.8327 11/27/12 16:16	8.7702 11/27/12 16:17	2.4754 11/28/12 10:13	2.4754 11/28/12 10:13	79.305	AY71935M01
AY71932D	m01	0.8392 11/27/12 16:15	7.0073 11/27/12 16:16	2.3882 11/28/12 10:13	2.3884 11/28/12 10:13	74.884	AY71932M01
AY71932	m01	0.8342 11/27/12 16:14	6.9161 11/27/12 16:15	2.3336 11/28/12 10:12	2.3336 11/28/12 10:12	75.347	AY71932M01

Date/Time InOven@104°C	Date/Time OutOven@104°C	Date/Time InOven@104°C	Date/Time OutOven@104°C
11/27/12 4:17:00 PM			11/28/12 10:12:00 AM

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
11/21/12	AP	Mettler AT200	0.5g	0,5000g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0002 g	0.9990	1.0010	
		Mettler AT200	20g	20.0004g	19.9800	20.0200	
		Mettler AT200	50g	50.0009g	49.9500	50.0500	
		Mettler AT200	100g	100.0017g	99.9000	100.1000	
		Mettler AT200	150g	150.0024g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	999.99 g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.99 g	1960.00	2040.00	
11/26/12	AP	Mettler AT200	0.5g	0.4999 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0002 g	0.9990	1.0010	
		Mettler AT200	20g	20.0006 g	19.9800	20.0200	
		Mettler AT200	50g	50.0010g	49.9500	50.0500	
		Mettler AT200	100g	100.0018g	99.9000	100.1000	
		Mettler AT200	150g	150.0029g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.98 g	1960.00	2040.00	
11/27/12	BB						Yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0003 g	19.9800	20.0200	
		Mettler AT200	50g	50.0007 g	49.9500	50.0500	
		Mettler AT200	100g	100.0015 g	99.9000	100.1000	
		Mettler AT200	150g	150.0024 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.01 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.01 g	1960.00	2040.00	
11/28/12	AP	Mettler AT200	0.5g	0.5000g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0000g	0.9990	1.0010	
		Mettler AT200	20g	20.0003g	19.9800	20.0200	
		Mettler AT200	50g	50.0007g	49.9500	50.0500	
		Mettler AT200	100g	100.0012g	99.9000	100.1000	
		Mettler AT200	150g	150.0019g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00g	1960.00	2040.00	

Laboratory Report

Parsons

Project #: 748350.02000 CSSA

ARF: 69307

Samples collected: November 14, 2012

APPL, Inc.

Data Validatable Package

for

Project #: 748350.02000 CSSA

ARF 69307

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CASE NARRATIVE

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

EPA Method 6010B
Lead
Case Narrative

ARF: 69307

Project: 748350.02000 CSSA

California State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Texas Certificate Number: T104704242-10-3

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

Four miscellaneous samples were received November 16, 2012, at 3.5°C. The samples were assigned Analytical Request Form (ARF) number 69307. The sample numbers and requested analyses were compared to the chain of custody. No exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
GT12025B	AY71930	MISC	11/14/12	11/16/12
GT12025L	AY71931	MISC	11/14/12	11/16/12
GT12026B	AY71933	MISC	11/14/12	11/16/12
GT12026L	AY71934	MISC	11/14/12	11/16/12

Percent moisture was determined using CLP 4.0 for the liver samples. Percent moisture was not determined on the bone samples.

Digestion Information:

The liver samples were frozen and homogenized according to APPL's SOP PRE003. The bone samples were dried in the oven at 104°C; once dried, a drill was used to "shave" the bone and obtain a representative sample. For sample GT12026B less than 2.5grams was digested because of the difficulty in shaving the bones. An aliquot of the homogenized liver sample and bone was digested according to EPA method 3050B. Since the laboratory was unable to obtain a similar clean matrix, the blank and the LCS were digested according to APPL's SOP PRE3050B. No other exception was encountered. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed according to EPA method 6010B using a Perkin Elmer Optima 5300DV ICP.

Calibrations:

Calibrations were performed according to the method for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard. In the CCV on 11/28/12 at 19:25, lead recovered above the 110% upper control limit at 112%. Lead was not detected in the bracketed samples. All other calibration acceptance criteria were met.

Blanks:

No target metal was detected above the reporting limit (RL) in the method blanks.

Spikes:

Laboratory Control Spikes (LCS), post-digestion spike (PDS), and dilution test were used for quality assurance. All LCS acceptance criteria were met.

Samples GT12029L (APPL SDG #69340) and GT12032M (APPL SDG #69413) were selected by the laboratory as the QC samples for analytical batches 121128B and 121205A, respectively. All dilution test and PDS recoveries are reported in APPL reports #69340 and 69413.

Summary:

No other analytical exception is noted. The data generated are acceptable.

CERTIFICATION

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. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

12-10-12

Sharon Dehmlow, Laboratory Director / Date

Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other - explain
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel.
Y	Percent difference between primary and confirmation column > 40%

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 69307

Client: **Parsons**
Address: **8000 Centre Park Drive Ste 200**
Austin, TX 78754
Attn: **Tammy Chang**
Phone: **512-719-6092** Fax: **512-719-6099**
Job: **748350.02000 CSSA**
PO #: **748350.30002 (prime *G012)**
Chain of Custody (Y/N): **Y** # **111512APPFA**
RAD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **STD**

Received by: **CM**
Date Received: **11/16/12** Time: **11:30**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-6**
Chest Temp(s): **3.5°C**
Color: **A-FREZ**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Diane Anderson**
QC Report Type: **DVP4/AFCEE/ERPIMS/TX**
Due Date: **12/07/12**

Comments:
pdf ARF to Tammy & Pam; send 1 DVP3 HC & send DVP3 & DVP4 on CD to Tammy.

Case Narrative. CSSA QAPP. Only report MS/MSD when requested.
Report results on APPL forms: U to the RL; report results in wet weight (without moisture correction)
Wait to do moisture analysis after metals analysis.
EDD: ERPIMS 4 Lab PC4 checked TXF to Pamela.Ford@parsons.com

Sample Distribution:
Metals: 4-$6010BDODS(Pb)
Wetlab: 2-MOIST
Other: 4-_M3050

Charges:

Invoice To:
PARSONS GOV'T SERV.
8000 Centre Park Drive Ste 200
Austin, TX 78754-5140
Attn: Ellen Felfe

	Client ID	APPL ID	Sampled	Analyses Requested
1.	GT12025B	AY71930M	11/14/12 17:30	$6010BDODS(Pb)
2.	GT12025L	AY71931M	11/14/12 17:30	$6010BDODS(Pb), MOIST
3.	GT12026B	AY71933M	11/14/12 17:45	$6010BDODS(Pb)
4.	GT12026L	AY71934M	11/14/12 17:45	$6010BDODS(Pb), MOIST

APPL Sample Receipt Form

ARF# **69307**

Sample	Container Type	Count	pH
AY71930	35 Plastic Bag	1	NA
AY71931	35 Plastic Bag	1	NA
AY71933	35 Plastic Bag	1	NA
AY71934	35 Plastic Bag	1	NA

Sample	Container Type	Count	pH

Camp Stanley Storage Activity Chain Of Custody

69306 3.5°C
69307 ~~69313~~

COC ID:	111512APPFA	Relinquish_Date:	11/15/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF
Job Number:	748350.02000	Relinquish_Time:	1:30 PM	Carrier:	FedEx
Creation Date:	11/15/2012	Collection Team:	SE	Airbill Carrier:	876436444097
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): San Elliott
S. Elliott

LOCID:	GT12025B	LOGDATE:	11/14/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME:	17:30	SACODE:	N	SMCODE:	G	ABLOT:	SW6010B LEAD
SED:	0	FLDSAMPID	GT12025B_111412_N1730			EBLOT:		Containers:	1
Remarks:									

LOCID:	GT12025L	LOGDATE:	11/14/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME:	17:30	SACODE:	N	SMCODE:	G	ABLOT:	SW6010B LEAD
SED:	0	FLDSAMPID	GT12025L_111412_N1730			EBLOT:		Containers:	1
Remarks:									

LOCID:	GT12025M	LOGDATE:	11/14/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME:	17:30	SACODE:	N	SMCODE:	G	ABLOT:	SW6010B LEAD
SED:	0	FLDSAMPID	GT12025M_111412_N1730			EBLOT:		Containers:	1
Remarks:									

LOCID:	GT12026B	LOGDATE:	11/14/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME:	17:45	SACODE:	N	SMCODE:	G	ABLOT:	SW6010B LEAD
SED:	0	FLDSAMPID	GT12026B_111412_N1745			EBLOT:		Containers:	1
Remarks:	pig								

LOCID:	GT12026L	LOGDATE:	11/14/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME:	17:45	SACODE:	N	SMCODE:	G	ABLOT:	SW6010B LEAD
SED:	0	FLDSAMPID	GT12026L_111412_N1745			EBLOT:		Containers:	1
Remarks:	pig								

LOCID:	GT12026M	LOGDATE:	11/14/2012	MATRIX:	TA	TBLOT:		Analysis Required:	
SBD:	0	LOGTIME:	17:45	SACODE:	N	SMCODE:	G	ABLOT:	SW6010B LEAD
SED:	0	FLDSAMPID	GT12026M_111412_N1745			EBLOT:		Containers:	1
Remarks:	pig								

Relinquished by: S. Elliott Date 11/15/12 Time 1330
Recieved by: Date 11/16/12 Time 1130

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date _____ Time _____

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date _____ Time _____

COOLER RECEIPT FORM

1) Project: 748350.02000 CSSA Date Received: 11/15/12

2) Coolers: Number of Coolers: 1

3) YES NO Were coolers and samples screened for radioactivity?

4) YES NO Were custody seals on outside of cooler? How many? 1 Date on seal? 11/15/12

5) Name on seal? See Label

6) YES NO NA Were custody seals unbroken and intact at the time of arrival?

7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex

8) Shipping slip numbers: 1) 8764 3644 4097 2) 3)

9) YES NO NA Was the shipping slip scanned into the database?

10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Ziploc in wet ice

12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?

13) YES NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: 43926 7 Correction factor: 0

15) Cooler temp(s): 1) 3.5°C 2) 3) 4) 5) 6) 7) 8)

Chain of custody:

16) YES NO Was a chain of custody received?

17) YES NO Were the custody papers signed in the appropriate places?

18) YES NO Was the project identifiable from custody papers?

19) YES NO Did the chain of custody include date and time of sampling?

20) YES NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) YES NO Were container labels in good condition?

22) YES NO Was the client ID on the label?

23) YES NO Was the date of sampling on the label?

24) YES NO Was the time of sampling on the label?

25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?

27) YES NO Did all containers arrive unbroken?

28) YES NO Was there any leakage from samples?

29) YES NO Were any of the lids cracked or broken?

30) YES NO Were correct containers used for the tests indicated?

31) YES NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea:

Smaller than a pea:

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO NA Unpreserved VOA Vials received?

38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

Lab notified if pH was not adequate:

Deficiencies:

Signature of personnel receiving samples: Jamie Foy Second reviewer:

Signature of project manager notified: Date and Time of notification:

Name of client notified: Date and Time of notification:

Information given to client:

by whom (Initials):

CUSTODY SEAL

APPL, Inc.

(559) 275-2175

Initials

Date 11/15/12

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/05/12	12/05/12	#6010B-121205A-AY72370
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/28/12	11/28/12	#6010B-121128B-AY72102

Metals SC-Blank-REG MDLs
Printed: 12/07/12 8:38:35 AM

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	11.1	111	80-120	11/28/12	11/28/12	#6010B-121128B-AY72102

Comments: _____

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.3	103	80-120	12/05/12	12/05/12	#6010B-121205A-AY72370

Comments: _____

METALS
Sample Data

APPL, INC.

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12025B
Sample Collection Date: 11/14/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69307
APPL ID: AY71930

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	12/05/12	12/05/12

Printed: 12/07/12 8:36:51 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 65
Sample ID: AY71930M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.54 g
Dilution:

Autosampler Location: 139
Date Collected: 12/05/12 2:44:44 PM
Data Type: Reprocessed on 12/06/12 10:13:26 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71930M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	489.1	3.765	ug/L	0.4519	0.148	mg/kg	0.0178	12.00%
Al 308.215	63.3	-24.33	ug/L	3.684	-0.958	mg/kg	0.1450	15.14%
As 188.979	146.2	26.21	ug/L	0.600	1.032	mg/kg	0.0236	2.29%
B	199.0	-16.31	ug/L	2.192	-0.642	mg/kg	0.0863	13.44%
Ba 233.527	122986.8	710.4	ug/L	3.79	27.97	mg/kg	0.149	0.53%
Be 313.107	-4761.3	-0.712	ug/L	0.0064	-0.028	mg/kg	0.0003	0.90%
Ca 315.887	33479294.5	2706000	ug/L	33885.0	106500	mg/kg	1334.1	1.25%
Cd 214.440	-5.4	-5.796	ug/L	0.1047	-0.228	mg/kg	0.0041	1.81%
Co 228.616	212.6	-5.908	ug/L	0.1533	-0.233	mg/kg	0.0060	2.59%
Cr 267.716	7981.9	45.14	ug/L	0.282	1.777	mg/kg	0.0111	0.62%
Cu 327.393	-992.3	-7.848	ug/L	0.3870	-0.309	mg/kg	0.0152	4.93%
Fe 273.955	16918.1	549.2	ug/L	2.90	21.62	mg/kg	0.114	0.53%
K 766.490	78704.3	35530	ug/L	385.1	1399	mg/kg	15.2	1.08%
Mg 285.213	1103704.2	57220	ug/L	524.5	2253	mg/kg	20.6	0.92%
Mn 257.610	468.8	-4.890	ug/L	0.0840	-0.193	mg/kg	0.0033	1.72%
Mo 202.031	-89.0	-15.54	ug/L	0.426	-0.612	mg/kg	0.0168	2.74%
Na 589.592	1149753.5	89930	ug/L	888.0	3540	mg/kg	35.0	0.99%
Ni 231.604	1399.3	19.34	ug/L	0.271	0.761	mg/kg	0.0107	1.40%
P 213.617	8382097.4	1096000	ug/L	10239.1	43170	mg/kg	403.1	0.93%
Pb 220.353	-10.8	-0.661	ug/L	0.6530	-0.026	mg/kg	0.0257	98.73%
Sb 206.836	7.2	1.120	ug/L	1.0400	0.044	mg/kg	0.0409	92.88%
Se 196.026	29.1	-36.38	ug/L	3.064	-1.432	mg/kg	0.1206	8.42%
Sn 189.927	28.6	3.341	ug/L	1.5839	0.132	mg/kg	0.0624	47.41%
Sr 421.552	522574.8	526.5	ug/L	5.63	20.73	mg/kg	0.222	1.07%
Ti 337.279	333.3	1.725	ug/L	0.0497	0.068	mg/kg	0.0020	2.88%
Tl 190.801	-11.7	-1.661	ug/L	1.3022	-0.065	mg/kg	0.0513	78.41%
V 292.402	132.1	-1.139	ug/L	0.1596	-0.045	mg/kg	0.0063	14.01%
Zn 206.200	92506.5	921.2	ug/L	7.28	36.27	mg/kg	0.287	0.79%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12025L
Sample Collection Date: 11/14/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69307
APPL ID: AY71931

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/28/12	11/28/12

Printed: 12/07/12 8:36:51 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 39
Sample ID: AY71931M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.59 g
Dilution:

Autosampler Location: 47
Date Collected: 11/28/12 7:07:15 PM
Data Type: Reprocessed on 11/29/12 2:04:40 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71931M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-150.4	-1.351	ug/L	0.4576	-0.052	mg/kg	0.0177	33.87%
Al 308.215	21.6	16.48	ug/L	10.210	0.636	mg/kg	0.3942	61.97%
As 188.979	3.0	0.726	ug/L	0.5819	0.028	mg/kg	0.0225	80.11%
B	-55.6	14.84	ug/L	1.714	0.573	mg/kg	0.0662	11.55%
Ba 233.527	1552.1	4.883	ug/L	0.0254	0.189	mg/kg	0.0010	0.52%
Be 313.107	-257.7	-0.049	ug/L	0.0171	-0.002	mg/kg	0.0007	35.06%
Ca 315.887	26114.2	2583	ug/L	5.4	99.74	mg/kg	0.207	0.21%
Cd 214.440	335.8	0.449	ug/L	0.0780	0.017	mg/kg	0.0030	17.38%
Co 228.616	42.8	0.417	ug/L	0.2121	0.016	mg/kg	0.0082	50.88%
Cr 267.716	317.4	2.638	ug/L	0.0404	0.102	mg/kg	0.0016	1.53%
Cu 327.393	2896.4	32.23	ug/L	0.568	1.244	mg/kg	0.0219	1.76%
Fe 273.955	231318.7	10050	ug/L	152.4	388.1	mg/kg	5.88	1.52%
K 766.490	133810.2	74220	ug/L	147.2	2866	mg/kg	5.7	0.20%
Mg 285.213	42949.2	2740	ug/L	6.9	105.8	mg/kg	0.26	0.25%
Mn 257.610	151.9	3.814	ug/L	0.2076	0.147	mg/kg	0.0080	5.44%
Mo 202.031	86.3	3.189	ug/L	0.4373	0.123	mg/kg	0.0169	13.71%
Na 589.592	417584.5	39560	ug/L	102.0	1527	mg/kg	3.9	0.26%
Ni 231.604	-43.7	-0.892	ug/L	0.2895	-0.034	mg/kg	0.0112	32.46%
P 213.617	291897.5	52860	ug/L	866.4	2041	mg/kg	33.5	1.64%
Pb 220.353	-35.0	-2.668	ug/L	0.3391	-0.103	mg/kg	0.0131	12.71%
Sb 206.836	5.5	1.062	ug/L	0.6187	0.041	mg/kg	0.0239	58.24%
Se 196.026	79.9	23.12	ug/L	3.408	0.893	mg/kg	0.1316	14.74%
Sn 189.927	-59.9	-8.980	ug/L	1.1053	-0.347	mg/kg	0.0427	12.31%
Sr 421.552	782.8	1.019	ug/L	0.0606	0.039	mg/kg	0.0023	5.95%
Ti 337.279	29.1	0.437	ug/L	0.2922	0.017	mg/kg	0.0113	66.86%
Tl 190.801	-3.3	-0.577	ug/L	0.7153	-0.022	mg/kg	0.0276	124.01%
V 292.402	319.7	-0.965	ug/L	0.4360	-0.037	mg/kg	0.0168	45.18%
Zn 206.200	29107.4	385.9	ug/L	5.00	14.90	mg/kg	0.193	1.30%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12026B
Sample Collection Date: 11/14/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69307
APPL ID: AY71933

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.71	0.50	mg/kg	1	12/05/12	12/05/12

Printed: 12/07/12 8:36:51 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 66
Sample ID: AY71933M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.18 g
Dilution:

Autosampler Location: 140
Date Collected: 12/05/12 2:50:36 PM
Data Type: Reprocessed on 12/06/12 10:13:27 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71933M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	451.0	3.472	ug/L	0.9058	0.159	mg/kg	0.0415	26.09%
Al 308.215	8707.6	5161	ug/L	11.7	236.8	mg/kg	0.54	0.23%
As 188.979	127.8	22.91	ug/L	1.439	1.051	mg/kg	0.0660	6.28%
B	46.6	-41.17	ug/L	1.497	-1.889	mg/kg	0.0687	3.64%
Ba 233.527	32007.9	181.6	ug/L	0.75	8.330	mg/kg	0.0342	0.41%
Be 313.107	-3453.0	-0.516	ug/L	0.0130	-0.024	mg/kg	0.0006	2.52%
Ca 315.887	30259613.2	2446000	ug/L	38866.9	112200	mg/kg	1782.9	1.59%
Cd 214.440	75.5	-5.129	ug/L	0.0645	-0.235	mg/kg	0.0030	1.26%
Co 228.616	234.7	-4.903	ug/L	0.2801	-0.225	mg/kg	0.0128	5.71%
Cr 267.716	7606.9	43.47	ug/L	0.322	1.994	mg/kg	0.0148	0.74%
Cu 327.393	-36.4	-0.288	ug/L	2.5730	-0.013	mg/kg	0.1180	894.36%
Fe 273.955	69079.6	2456	ug/L	3.9	112.7	mg/kg	0.18	0.16%
K 766.490	29336.2	12690	ug/L	182.1	582.3	mg/kg	8.36	1.43%
Mg 285.213	695188.6	36030	ug/L	261.2	1653	mg/kg	12.0	0.72%
Mn 257.610	1757.8	21.38	ug/L	0.211	0.981	mg/kg	0.0097	0.99%
Mo 202.031	-65.7	-13.50	ug/L	0.521	-0.619	mg/kg	0.0239	3.86%
Na 589.592	1063831.3	83220	ug/L	583.0	3818	mg/kg	26.7	0.70%
Ni 231.604	1168.6	16.13	ug/L	0.177	0.740	mg/kg	0.0081	1.10%
P 213.617	7269879.5	950900	ug/L	12267.2	43620	mg/kg	562.7	1.29%
Pb 220.353	255.2	15.56	ug/L	1.147	0.714	mg/kg	0.0526	7.37%
Sb 206.836	0.8	0.129	ug/L	1.4626	0.006	mg/kg	0.0671	>999.9%
Se 196.026	47.4	-27.55	ug/L	2.033	-1.264	mg/kg	0.0933	7.38%
Sn 189.927	32.4	3.779	ug/L	0.6829	0.173	mg/kg	0.0313	18.07%
Sr 421.552	422138.4	423.4	ug/L	3.58	19.42	mg/kg	0.164	0.85%
Ti 337.279	2419.1	53.08	ug/L	0.454	2.435	mg/kg	0.0208	0.85%
Tl 190.801	-14.2	-2.011	ug/L	0.4349	-0.092	mg/kg	0.0199	21.63%
V 292.402	1742.9	4.987	ug/L	0.1264	0.229	mg/kg	0.0058	2.53%
Zn 206.200	152690.6	1517	ug/L	1.9	69.58	mg/kg	0.088	0.13%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12026L
Sample Collection Date: 11/14/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69307
APPL ID: AY71934

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/28/12	11/28/12

Printed: 12/07/12 8:36:51 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 40
Sample ID: AY71934M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.52 g
Dilution:

Autosampler Location: 48
Date Collected: 11/28/12 7:12:38 PM
Data Type: Reprocessed on 11/29/12 2:04:41 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY71934M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-165.0	-1.482	ug/L	0.9363	-0.059	mg/kg	0.0372	63.18%
Al 308.215	98.5	68.41	ug/L	1.115	2.715	mg/kg	0.0442	1.63%
As 188.979	8.7	2.124	ug/L	0.6588	0.084	mg/kg	0.0261	31.03%
B	-21.8	6.447	ug/L	2.5887	0.256	mg/kg	0.1027	40.16%
Ba 233.527	2286.5	13.41	ug/L	0.029	0.532	mg/kg	0.0012	0.22%
Be 313.107	-242.0	-0.046	ug/L	0.0030	-0.002	mg/kg	0.0001	6.59%
Ca 315.887	11991.4	1184	ug/L	11.3	46.98	mg/kg	0.448	0.95%
Cd 214.440	1177.8	3.547	ug/L	0.0805	0.141	mg/kg	0.0032	2.27%
Co 228.616	61.3	0.937	ug/L	0.2032	0.037	mg/kg	0.0081	21.69%
Cr 267.716	444.1	3.527	ug/L	0.2690	0.140	mg/kg	0.0107	7.63%
Cu 327.393	8427.0	93.76	ug/L	1.068	3.721	mg/kg	0.0424	1.14%
Fe 273.955	94485.9	4105	ug/L	43.3	162.9	mg/kg	1.72	1.06%
K 766.490	124320.6	68950	ug/L	449.1	2736	mg/kg	17.8	0.65%
Mg 285.213	64994.7	4135	ug/L	32.4	164.1	mg/kg	1.29	0.78%
Mn 257.610	2254.6	51.70	ug/L	0.738	2.052	mg/kg	0.0293	1.43%
Mo 202.031	714.6	18.87	ug/L	0.092	0.749	mg/kg	0.0037	0.49%
Na 589.592	199266.9	18860	ug/L	181.0	748.5	mg/kg	7.18	0.96%
Ni 231.604	-24.6	-0.528	ug/L	0.0730	-0.021	mg/kg	0.0029	13.82%
P 213.617	406099.0	73550	ug/L	973.8	2918	mg/kg	38.6	1.32%
Pb 220.353	2.6	0.199	ug/L	0.1291	0.008	mg/kg	0.0051	64.91%
Sb 206.836	12.3	2.361	ug/L	1.1248	0.094	mg/kg	0.0446	47.65%
Se 196.026	119.2	29.16	ug/L	2.854	1.157	mg/kg	0.1133	9.79%
Sn 189.927	-48.0	-7.191	ug/L	0.3304	-0.285	mg/kg	0.0131	4.59%
Sr 421.552	1111.8	1.472	ug/L	0.1447	0.058	mg/kg	0.0057	9.83%
Ti 337.279	122.0	3.078	ug/L	0.5562	0.122	mg/kg	0.0221	18.07%
Tl 190.801	-7.1	-1.218	ug/L	0.4598	-0.048	mg/kg	0.0182	37.75%
V 292.402	263.4	0.461	ug/L	0.3365	0.018	mg/kg	0.0134	72.96%
Zn 206.200	49045.7	650.2	ug/L	5.52	25.80	mg/kg	0.219	0.85%

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69307 SDG: 69307
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/28/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 15:38	%R(1)	True CCV1	Found 16:18	%R(1)	True CCV1	Found 18:18	%R(1)	
Lead (Pb)	1000	1012	101	1000	1022	102	1000	1063	106	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69307 SDG: 69307
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/28/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 15:38	%R(1)	True CCV2	Found 19:25	%R(1)	True	Found	%R(1)	
Lead (Pb)	1000	1012	101	750	840.3	112				*

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69307 SDG: 69307

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 11/28/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	15:42		16:22		18:26		19:32		18:41		
Lead (Pb)	5.00	U	2.11	J	5.00	U	5.00	U	.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69307 SDG: 69307

ICP ID Number: Phoebe ICS Source: Environmental Express

Analysis Date: 11/28/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 15:51	Sol AB 15:56	%R(1)
Aluminum (Al)	200000	200000	196300	207000	104
Calcium (Ca)	200000	200000	202700	215800	108
Iron (Fe)	200000	200000	181800	191200	95.6
Magnesium (Mg)	200000	200000	194900	205700	103
Lead (Pb)		1000	0.538	1028	103

(1) Control Limits: Metals 80-120

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69307 SDG: 69307
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 12/05/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:57	%R(1)	True CCV1	Found 10:22	%R(1)	True CCV1	Found 14:03	%R(1)	
Lead (Pb)	1000	1048	105	1000	1063	106	1000	1037	104	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69307 SDG: 69307
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 12/05/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:57	%R(1)	True CCV2	Found 15:23	%R(1)	True	Found	%R(1)	
Lead (Pb)	1000	1048	105	750	804.9	107				P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69307 SDG: 69307

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 12/05/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	10:00		10:26		14:07		15:29		14:12		
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name:	A.P.P.L. INC.	Contract:	Parsons
ARF No.:	69307	SDG:	69307
ICP ID Number:	Phoebe	ICS Source:	Environmental Express

Analysis Date: 12/05/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 10:13	Sol AB 10:18	%R(1)
Aluminum (Al)	200000	200000	190700	190500	95.3
Calcium (Ca)	200000	200000	192600	192400	96.2
Iron (Fe)	200000	200000	178100	176300	88.2
Magnesium (Mg)	200000	200000	187100	187200	93.6
Lead (Pb)		1000	1.078	941.2	94.1

(1) Control Limits: Metals 80-120

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 121128A6010XF
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1 Autosampler Location: 1
Sample ID: CalBlk 121128EA I:PB O:EA Date Collected: 11/28/12 3:17:13 PM
Analyst: Data Type: Reprocessed on 11/29/12 2:03:59 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CalBlk 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	57.7	120.04	208.09%	[0.00]	ug/L
Al 308.215	118.6	11.56	9.74%	[0.00]	ug/L
As 188.979	0.4	10.72	>999.9%	[0.00]	ug/L
B	5.8	2.79	48.01%	[0.00]	ug/L
Ba 233.527	136.5	14.07	10.31%	[0.00]	ug/L
Be 313.107	1817.9	7.31	0.40%	[0.00]	ug/L
Ca 315.887	-308.5	15.09	4.89%	[0.00]	ug/L
Cd 214.440	413.7	1.70	0.41%	[0.00]	ug/L
Co 228.616	57.6	19.31	33.53%	[0.00]	ug/L
Cr 267.716	657.2	6.38	0.97%	[0.00]	ug/L
Cu 327.393	-37.5	16.54	44.05%	[0.00]	ug/L
Fe 273.955	213.1	59.06	27.72%	[0.00]	ug/L
K 766.490	-455.9	40.12	8.80%	[0.00]	ug/L
Mg 285.213	-99.9	4.14	4.14%	[0.00]	ug/L
Mn 257.610	-59.7	5.18	8.68%	[0.00]	ug/L
Mo 202.031	159.3	7.97	5.00%	[0.00]	ug/L
Na 589.592	-188.1	68.21	36.27%	[0.00]	ug/L
Ni 231.604	-189.4	8.63	4.55%	[0.00]	ug/L
P 213.617	45.4	1.95	4.30%	[0.00]	ug/L
Pb 220.353	-29.5	13.89	47.01%	[0.00]	ug/L
Sb 206.836	1.1	8.00	759.30%	[0.00]	ug/L
Se 196.026	-14.2	3.03	21.36%	[0.00]	ug/L
Sn 189.927	-4.9	9.96	205.26%	[0.00]	ug/L
Sr 421.552	854.9	54.22	6.34%	[0.00]	ug/L
Ti 337.279	-391.0	7.59	1.94%	[0.00]	ug/L
Tl 190.801	-8.9	2.13	23.96%	[0.00]	ug/L
V 292.402	-611.4	20.48	3.35%	[0.00]	ug/L
Zn 206.200	-454.6	6.23	1.37%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/28/12 3:21:33 PM
Data Type: Reprocessed on 11/29/12 2:04:00 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	183.8	110.81	60.31%	[1.00]	ug/L
Al 308.215	163.6	9.65	5.90%	[100.00]	ug/L
As 188.979	16.1	1.09	6.79%	[3.50]	ug/L
B	173.6	2.25	1.30%	[50.00]	ug/L
Ba 233.527	865.1	16.96	1.96%	[5.00]	ug/L
Be 313.107	12860.5	252.18	1.96%	[2.00]	ug/L
Ca 315.887	1328.8	13.30	1.00%	[100.00]	ug/L
Cd 214.440	1927.0	3.97	0.21%	[5.00]	ug/L
Co 228.616	374.8	15.30	4.08%	[5.00]	ug/L
Cr 267.716	801.2	28.50	3.56%	[5.00]	ug/L
Cu 327.393	513.6	41.93	8.16%	[5.00]	ug/L
Fe 273.955	1422.8	26.83	1.89%	[50.00]	ug/L
K 766.490	1740.2	25.87	1.49%	[1000.00]	ug/L
Mg 285.213	955.3	22.75	2.38%	[50]	ug/L
Mn 257.610	258.6	6.30	2.44%	[5.00]	ug/L
Mo 202.031	224.6	4.23	1.89%	[5.00]	ug/L
Na 589.592	12062.4	205.86	1.71%	[1000.00]	ug/L
Ni 231.604	396.6	27.38	6.90%	[5.00]	ug/L
P 213.617	162.8	6.79	4.17%	[25.00]	ug/L
Pb 220.353	51.4	1.19	2.31%	[3.00]	ug/L
Sb 206.836	33.2	1.33	4.01%	[5.00]	ug/L
Se 196.026	19.8	8.82	44.46%	[5.00]	ug/L
Sn 189.927	38.8	3.89	10.05%	[5.00]	ug/L
Sr 421.552	4979.3	104.98	2.11%	[5.00]	ug/L
Ti 337.279	201.4	2.79	1.38%	[5.00]	ug/L
Tl 190.801	33.9	2.35	6.93%	[5.00]	ug/L
V 292.402	1188.6	179.37	15.09%	[5.00]	ug/L
Zn 206.200	2035.5	9.80	0.48%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/28/12 3:25:57 PM
Data Type: Reprocessed on 11/29/12 2:04:01 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	57223.4	420.02	0.73%	[500.0]	ug/L
Al 308.215	30433.0	214.70	0.71%	[20000.00]	ug/L
As 188.979	4355.2	6.10	0.14%	[1000.00]	ug/L
B	3115.8	14.65	0.47%	[1000.00]	ug/L
Ba 233.527	150389.2	1612.74	1.07%	[1000.00]	ug/L
Be 313.107	5694094.7	62060.69	1.09%	[1000.00]	ug/L
Ca 315.887	543188.8	8287.30	1.53%	[50000]	ug/L
Cd 214.440	327625.9	3706.38	1.13%	[1000.00]	ug/L
Co 228.616	61454.7	578.00	0.94%	[1000.00]	ug/L
Cr 267.716	132573.3	1378.71	1.04%	[1000.00]	ug/L
Cu 327.393	92180.8	560.78	0.61%	[1000.00]	ug/L
Fe 273.955	482707.5	5163.58	1.07%	[20000]	ug/L
K 766.490	37578.3	328.66	0.87%	[20000]	ug/L
Mg 285.213	843954.0	12383.67	1.47%	[50000]	ug/L
Mn 257.610	46574.8	206.28	0.44%	[1000.00]	ug/L
Mo 202.031	40606.2	315.30	0.78%	[1000.00]	ug/L
Na 589.592	280460.2	4299.57	1.53%	[25000]	ug/L
Ni 231.604	58466.5	569.27	0.97%	[1000.00]	ug/L
P 213.617	28836.9	317.10	1.10%	[5000]	ug/L
Pb 220.353	13980.8	61.42	0.44%	[1000.00]	ug/L
Sb 206.836	5457.6	8.86	0.16%	[1000.00]	ug/L
Se 196.026	4422.2	16.78	0.38%	[1000.00]	ug/L
Sn 189.927	7165.5	40.43	0.56%	[1000.00]	ug/L
Sr 421.552	894684.5	13548.45	1.51%	[1000.00]	ug/L
Ti 337.279	37471.6	313.63	0.84%	[1000.00]	ug/L
Tl 190.801	6162.6	30.14	0.49%	[1000.00]	ug/L
V 292.402	220475.7	2127.57	0.96%	[1000.00]	ug/L
Zn 206.200	80423.3	1074.30	1.34%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 11/28/12 3:29:32 PM
Data Type: Reprocessed on 11/29/12 2:04:02 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	110562.9	2122.21	1.92%	[1000.00]	ug/L
Al 308.215	56795.9	765.00	1.35%	[40000.00]	ug/L
As 188.979	8103.9	187.03	2.31%	[2000.00]	ug/L
B	5798.8	107.75	1.86%	[2000.00]	ug/L
Ba 233.527	285260.5	5243.57	1.84%	[2000.00]	ug/L
Be 313.107	10388989.5	29266.24	0.28%	[2000.00]	ug/L
Ca 315.887	988645.0	7050.07	0.71%	[100000.0]	ug/L
Cd 214.440	608232.3	13313.60	2.19%	[2000.00]	ug/L
Co 228.616	115651.3	2290.64	1.98%	[2000.00]	ug/L
Cr 267.716	249645.7	4384.12	1.76%	[2000.00]	ug/L
Cu 327.393	178599.1	3344.85	1.87%	[2000.00]	ug/L
Fe 273.955	908855.2	16885.84	1.86%	[40000]	ug/L
K 766.490	71361.7	253.34	0.36%	[40000]	ug/L
Mg 285.213	1544299.0	9686.42	0.63%	[100000]	ug/L
Mn 257.610	85667.6	1412.31	1.65%	[2000.00]	ug/L
Mo 202.031	76845.3	1465.21	1.91%	[2000.00]	ug/L
Na 589.592	518981.0	2566.64	0.49%	[50000]	ug/L
Ni 231.604	108917.3	2056.54	1.89%	[2000.00]	ug/L
P 213.617	54603.4	1354.33	2.48%	[10000]	ug/L
Pb 220.353	25804.3	697.64	2.70%	[2000.00]	ug/L
Sb 206.836	10285.6	304.49	2.96%	[2000.00]	ug/L
Se 196.026	8157.0	246.77	3.03%	[2000.00]	ug/L
Sn 189.927	13098.2	262.48	2.00%	[2000.00]	ug/L
Sr 421.552	1651339.5	8488.39	0.51%	[2000.00]	ug/L
Ti 337.279	70039.3	1097.85	1.57%	[2000.00]	ug/L
Tl 190.801	11428.2	349.97	3.06%	[2000.00]	ug/L
V 292.402	419360.2	7657.02	1.83%	[2000.00]	ug/L
Zn 206.200	148542.4	3385.10	2.28%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	111.3	0.00000	0.999902	
Al 308.215	3	Lin Thru 0	0.0	1.440	0.00000	0.999601	
As 188.979	3	Lin Thru 0	0.0	4.113	0.00000	0.999565	
B	3	Lin Thru 0	0.0	2.943	0.00000	0.999560	
Ba 233.527	3	Lin Thru 0	0.0	144.2	0.00000	0.999768	
Be 313.107	3	Lin Thru 0	0.0	5294	0.00000	0.999288	
Ca 315.887	3	Lin Thru 0	0.0	10.08	0.00000	0.999249	
Cd 214.440	3	Lin Thru 0	0.0	308.8	0.00000	0.999537	
Co 228.616	3	Lin Thru 0	0.0	58.55	0.00000	0.999693	
Cr 267.716	3	Lin Thru 0	0.0	126.4	0.00000	0.999699	
Cu 327.393	3	Lin Thru 0	0.0	89.88	0.00000	0.999918	
Fe 273.955	3	Lin Thru 0	0.0	23.00	0.00000	0.999698	
K 766.490	3	Lin Thru 0	0.0	1.803	0.00000	0.999778	
Mg 285.213	3	Lin Thru 0	0.0	15.73	0.00000	0.999334	
Mn 257.610	3	Lin Thru 0	0.0	43.58	0.00000	0.999411	
Mo 202.031	3	Lin Thru 0	0.0	38.86	0.00000	0.999747	
Na 589.592	3	Lin Thru 0	0.0	10.55	0.00000	0.999491	
Ni 231.604	3	Lin Thru 0	0.0	55.26	0.00000	0.999579	
P 213.617	3	Lin Thru 0	0.0	5.522	0.00000	0.999753	
Pb 220.353	3	Lin Thru 0	0.0	13.12	0.00000	0.999459	
Sb 206.836	3	Lin Thru 0	0.0	5.206	0.00000	0.999707	
Se 196.026	3	Lin Thru 0	0.0	4.147	0.00000	0.999451	
Sn 189.927	3	Lin Thru 0	0.0	6.672	0.00000	0.999318	
Sr 421.552	3	Lin Thru 0	0.0	839.5	0.00000	0.999460	
Ti 337.279	3	Lin Thru 0	0.0	35.51	0.00000	0.999619	
Tl 190.801	3	Lin Thru 0	0.0	5.804	0.00000	0.999523	

V 292.402	3	Lin Thru 0	0.0	211.8	0.00000	0.999792
Zn 206.200	3	Lin Thru 0	0.0	75.50	0.00000	0.999465

Sequence No.: 5
Sample ID: ICV 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 11/28/12 3:38:21 PM
Data Type: Reprocessed on 11/29/12 2:04:04 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	53891.1	484.0	ug/L	8.11	484.0	ug/L	8.11	1.68%
QC value within limits for Ag 338.289 Recovery = 96.80%								
Al 308.215	33951.6	23580	ug/L	286.9	23580	ug/L	286.9	1.22%
QC value within limits for Al 308.215 Recovery = 94.34%								
As 188.979	4019.0	977.2	ug/L	5.42	977.2	ug/L	5.42	0.55%
QC value within limits for As 188.979 Recovery = 97.72%								
B	2849.2	1043	ug/L	18.4	1043	ug/L	18.4	1.76%
QC value within limits for B Recovery = 104.32%								
Ba 233.527	139599.5	955.0	ug/L	18.40	955.0	ug/L	18.40	1.93%
QC value within limits for Ba 233.527 Recovery = 95.50%								
Be 313.107	5284222.5	998.1	ug/L	13.10	998.1	ug/L	13.10	1.31%
QC value within limits for Be 313.107 Recovery = 99.81%								
Ca 315.887	241255.9	23920	ug/L	98.3	23920	ug/L	98.3	0.41%
QC value within limits for Ca 315.887 Recovery = 95.68%								
Cd 214.440	310196.9	1004	ug/L	17.8	1004	ug/L	17.8	1.77%
QC value within limits for Cd 214.440 Recovery = 100.39%								
Co 228.616	58384.0	996.0	ug/L	18.94	996.0	ug/L	18.94	1.90%
QC value within limits for Co 228.616 Recovery = 99.60%								
Cr 267.716	126179.1	999.6	ug/L	15.94	999.6	ug/L	15.94	1.60%
QC value within limits for Cr 267.716 Recovery = 99.96%								
Cu 327.393	86277.6	960.0	ug/L	15.28	960.0	ug/L	15.28	1.59%
QC value within limits for Cu 327.393 Recovery = 96.00%								
Fe 273.955	554184.7	24010	ug/L	441.1	24010	ug/L	441.1	1.84%
QC value within limits for Fe 273.955 Recovery = 96.04%								
K 766.490	42979.0	23830	ug/L	122.3	23830	ug/L	122.3	0.51%
QC value within limits for K 766.490 Recovery = 95.31%								
Mg 285.213	378907.6	24110	ug/L	128.4	24110	ug/L	128.4	0.53%
QC value within limits for Mg 285.213 Recovery = 96.46%								
Mn 257.610	43504.6	998.5	ug/L	11.54	998.5	ug/L	11.54	1.16%
QC value within limits for Mn 257.610 Recovery = 99.85%								
Mo 202.031	37230.6	960.6	ug/L	16.49	960.6	ug/L	16.49	1.72%
QC value within limits for Mo 202.031 Recovery = 96.06%								
Na 589.592	255645.3	24220	ug/L	101.4	24220	ug/L	101.4	0.42%
QC value within limits for Na 589.592 Recovery = 96.87%								
Ni 231.604	56705.7	1024	ug/L	20.3	1024	ug/L	20.3	1.98%
QC value within limits for Ni 231.604 Recovery = 102.40%								
P 213.617	26437.4	4788	ug/L	75.5	4788	ug/L	75.5	1.58%
QC value within limits for P 213.617 Recovery = 95.76%								
Pb 220.353	13277.2	1012	ug/L	4.8	1012	ug/L	4.8	0.47%
QC value within limits for Pb 220.353 Recovery = 101.21%								
Sb 206.836	5190.5	997.1	ug/L	6.36	997.1	ug/L	6.36	0.64%
QC value within limits for Sb 206.836 Recovery = 99.71%								
Se 196.026	4144.9	1012	ug/L	4.2	1012	ug/L	4.2	0.42%
QC value within limits for Se 196.026 Recovery = 101.24%								
Sn 189.927	4090.6	613.1	ug/L	1.57	613.1	ug/L	1.57	0.26%
QC value greater than the upper limit for Sn 189.927 Recovery = 122.61%								
Sr 421.552	810050.5	964.7	ug/L	2.49	964.7	ug/L	2.49	0.26%
QC value within limits for Sr 421.552 Recovery = 96.47%								
Ti 337.279	35713.0	1005	ug/L	12.5	1005	ug/L	12.5	1.25%
QC value within limits for Ti 337.279 Recovery = 100.53%								
Tl 190.801	5674.5	977.7	ug/L	6.24	977.7	ug/L	6.24	0.64%
QC value within limits for Tl 190.801 Recovery = 97.77%								
V 292.402	208162.3	999.0	ug/L	17.98	999.0	ug/L	17.98	1.80%
QC value within limits for V 292.402 Recovery = 99.90%								
Zn 206.200	77955.2	1042	ug/L	18.9	1042	ug/L	18.9	1.82%
QC value within limits for Zn 206.200 Recovery = 104.17%								

QC Failed. Continue with analysis.

Sequence No.: 6
Sample ID: ICB 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/28/12 3:42:56 PM
Data Type: Reprocessed on 11/29/12 2:04:05 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Ag 338.289	1.4	0.013	ug/L	0.1983	0.013	ug/L	0.1983	>999.9%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-13.6	-9.447	ug/L	8.1751	-9.447	ug/L	8.1751	86.54%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	0.6	0.143	ug/L	0.7525	0.143	ug/L	0.7525	525.90%
QC value within limits for As 188.979 Recovery = Not calculated								
B	41.0	13.94	ug/L	0.427	13.94	ug/L	0.427	3.07%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	4.6	0.032	ug/L	0.0323	0.032	ug/L	0.0323	101.76%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-2.3	0.000	ug/L	0.0178	0.000	ug/L	0.0178	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	32.0	3.172	ug/L	1.2866	3.172	ug/L	1.2866	40.56%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	22.9	0.074	ug/L	0.0164	0.074	ug/L	0.0164	22.15%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	13.5	0.232	ug/L	0.3214	0.232	ug/L	0.3214	138.33%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	12.5	0.099	ug/L	0.3242	0.099	ug/L	0.3242	328.79%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	34.1	0.379	ug/L	0.4747	0.379	ug/L	0.4747	125.18%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	-9.4	-0.415	ug/L	1.0033	-0.415	ug/L	1.0033	241.53%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-2.1	-1.172	ug/L	131.1621	-1.172	ug/L	131.1621	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	28.2	1.791	ug/L	0.3123	1.791	ug/L	0.3123	17.44%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	4.4	0.101	ug/L	0.1338	0.101	ug/L	0.1338	132.14%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	19.5	0.502	ug/L	0.2220	0.502	ug/L	0.2220	44.21%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	120.6	11.43	ug/L	14.448	11.43	ug/L	14.448	126.42%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	3.7	0.066	ug/L	0.2659	0.066	ug/L	0.2659	405.17%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	7.0	1.267	ug/L	0.2815	1.267	ug/L	0.2815	22.21%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	16.8	1.282	ug/L	0.5787	1.282	ug/L	0.5787	45.13%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	10.2	1.958	ug/L	0.8415	1.958	ug/L	0.8415	42.97%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	3.1	0.744	ug/L	0.4407	0.744	ug/L	0.4407	59.27%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	10.0	1.495	ug/L	0.4139	1.495	ug/L	0.4139	27.69%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	163.6	0.195	ug/L	0.1889	0.195	ug/L	0.1889	96.93%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-5.7	-0.161	ug/L	0.2392	-0.161	ug/L	0.2392	148.40%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.7	1.492	ug/L	0.9900	1.492	ug/L	0.9900	66.34%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	11.2	0.061	ug/L	0.2313	0.061	ug/L	0.2313	378.35%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	4.1	0.056	ug/L	0.1037	0.056	ug/L	0.1037	186.73%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 11/28/12 3:51:42 PM
Data Type: Reprocessed on 11/29/12 2:04:07 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	16.2	0.146	ug/L	0.1279	0.146	ug/L	0.1279	87.82%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	282715.9	196300	ug/L	838.1	196300	ug/L	838.1	0.43%
QC value within limits for Al 308.215 Recovery = 98.16%								
As 188.979	-4.8	-1.167	ug/L	0.8357	-1.167	ug/L	0.8357	71.63%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-1749.1	-19.53	ug/L	6.556	-19.53	ug/L	6.556	33.56%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	15672.9	3.332	ug/L	2.4092	3.332	ug/L	2.4092	72.30%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-584.0	-0.110	ug/L	0.0126	-0.110	ug/L	0.0126	11.44%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2043760.6	202700	ug/L	718.2	202700	ug/L	718.2	0.35%
QC value within limits for Ca 315.887 Recovery = 101.34%								
Cd 214.440	2921.2	0.128	ug/L	0.1238	0.128	ug/L	0.1238	97.09%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	271.1	-0.917	ug/L	0.3553	-0.917	ug/L	0.3553	38.75%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	36.3	0.815	ug/L	0.0828	0.815	ug/L	0.0828	10.15%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	12.3	0.137	ug/L	0.0389	0.137	ug/L	0.0389	28.44%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4183629.8	181800	ug/L	961.3	181800	ug/L	961.3	0.53%
QC value within limits for Fe 273.955 Recovery = 90.92%								
K 766.490	156.4	-30.74	ug/L	102.702	-30.74	ug/L	102.702	334.08%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3062981.2	194900	ug/L	606.4	194900	ug/L	606.4	0.31%
QC value within limits for Mg 285.213 Recovery = 97.46%								
Mn 257.610	-65.6	-0.691	ug/L	0.6549	-0.691	ug/L	0.6549	94.82%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-549.8	-0.409	ug/L	0.0967	-0.409	ug/L	0.0967	23.62%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	385.8	-9.786	ug/L	10.9129	-9.786	ug/L	10.9129	111.52%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	62.0	-0.570	ug/L	0.6714	-0.570	ug/L	0.6714	117.84%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-17.4	-3.157	ug/L	1.2718	-3.157	ug/L	1.2718	40.29%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	7.1	0.538	ug/L	0.9028	0.538	ug/L	0.9028	167.93%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	2.9	0.559	ug/L	1.0485	0.559	ug/L	1.0485	187.60%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-437.0	0.118	ug/L	3.0742	0.118	ug/L	3.0742	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-4.4	-0.653	ug/L	1.5109	-0.653	ug/L	1.5109	231.23%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	1790.6	-0.105	ug/L	0.0324	-0.105	ug/L	0.0324	30.76%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	107.2	-0.470	ug/L	2.2646	-0.470	ug/L	2.2646	481.79%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-6.5	-1.112	ug/L	1.2518	-1.112	ug/L	1.2518	112.59%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	9544.6	1.353	ug/L	0.3121	1.353	ug/L	0.3121	23.06%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	702.0	0.199	ug/L	0.4911	0.199	ug/L	0.4911	247.36%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 11/28/12 3:56:22 PM
Data Type: Reprocessed on 11/29/12 2:04:08 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	118785.0	1067	ug/L	6.8	1067	ug/L	6.8	0.63%
QC value within limits for Ag 338.289 Recovery = 106.69%								
Al 308.215	298141.2	207000	ug/L	467.7	207000	ug/L	467.7	0.23%
QC value within limits for Al 308.215 Recovery = 103.52%								
As 188.979	2144.7	521.5	ug/L	0.67	521.5	ug/L	0.67	0.13%
QC value within limits for As 188.979 Recovery = 104.30%								
B	-1900.1	-41.92	ug/L	10.355	-41.92	ug/L	10.355	24.70%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	90390.2	516.5	ug/L	2.48	516.5	ug/L	2.48	0.48%
QC value within limits for Ba 233.527 Recovery = 103.30%								
Be 313.107	2751027.8	519.6	ug/L	0.91	519.6	ug/L	0.91	0.17%
QC value within limits for Be 313.107 Recovery = 103.92%								
Ca 315.887	2176189.4	215800	ug/L	650.7	215800	ug/L	650.7	0.30%
QC value within limits for Ca 315.887 Recovery = 107.90%								
Cd 214.440	315844.8	1013	ug/L	5.6	1013	ug/L	5.6	0.55%
QC value within limits for Cd 214.440 Recovery = 101.32%								
Co 228.616	29789.0	503.9	ug/L	3.67	503.9	ug/L	3.67	0.73%
QC value within limits for Co 228.616 Recovery = 100.78%								
Cr 267.716	65030.6	515.7	ug/L	3.43	515.7	ug/L	3.43	0.66%
QC value within limits for Cr 267.716 Recovery = 103.14%								
Cu 327.393	47251.1	525.7	ug/L	2.62	525.7	ug/L	2.62	0.50%
QC value within limits for Cu 327.393 Recovery = 105.15%								
Fe 273.955	4399534.3	191200	ug/L	605.1	191200	ug/L	605.1	0.32%
QC value within limits for Fe 273.955 Recovery = 95.59%								
K 766.490	-23.1	-138.7	ug/L	102.28	-138.7	ug/L	102.28	73.76%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3232851.9	205700	ug/L	711.7	205700	ug/L	711.7	0.35%
QC value within limits for Mg 285.213 Recovery = 102.87%								
Mn 257.610	23014.6	529.0	ug/L	6.47	529.0	ug/L	6.47	1.22%
QC value within limits for Mn 257.610 Recovery = 105.80%								
Mo 202.031	19565.9	518.3	ug/L	2.33	518.3	ug/L	2.33	0.45%
QC value within limits for Mo 202.031 Recovery = 103.67%								
Na 589.592	313.2	-21.26	ug/L	4.378	-21.26	ug/L	4.378	20.59%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	56477.2	1019	ug/L	7.1	1019	ug/L	7.1	0.70%
QC value within limits for Ni 231.604 Recovery = 101.93%								
P 213.617	-5.0	-0.911	ug/L	1.7464	-0.911	ug/L	1.7464	191.71%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	13481.6	1028	ug/L	3.4	1028	ug/L	3.4	0.33%
QC value within limits for Pb 220.353 Recovery = 102.77%								
Sb 206.836	2689.3	516.6	ug/L	2.71	516.6	ug/L	2.71	0.52%
QC value within limits for Sb 206.836 Recovery = 103.32%								
Se 196.026	1712.1	523.6	ug/L	1.65	523.6	ug/L	1.65	0.32%
QC value within limits for Se 196.026 Recovery = 104.71%								
Sn 189.927	-18.5	-2.771	ug/L	1.3352	-2.771	ug/L	1.3352	48.19%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2230.7	0.287	ug/L	0.1460	0.287	ug/L	0.1460	50.88%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	117.3	-0.331	ug/L	3.0666	-0.331	ug/L	3.0666	927.76%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2896.6	499.1	ug/L	3.53	499.1	ug/L	3.53	0.71%
QC value within limits for Tl 190.801 Recovery = 99.82%								
V 292.402	121021.7	537.5	ug/L	3.29	537.5	ug/L	3.29	0.61%
QC value within limits for V 292.402 Recovery = 107.50%								
Zn 206.200	77767.9	1026	ug/L	8.0	1026	ug/L	8.0	0.78%
QC value within limits for Zn 206.200 Recovery = 102.56%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/28/12 4:18:01 PM
Data Type: Reprocessed on 11/29/12 2:04:09 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	53169.0	477.5	ug/L	20.88	477.5	ug/L	20.88	4.37%
QC value within limits for Ag 338.289 Recovery = 95.51%								
Al 308.215	28768.7	19980	ug/L	222.4	19980	ug/L	222.4	1.11%
QC value within limits for Al 308.215 Recovery = 99.92%								
As 188.979	4166.1	1013	ug/L	2.6	1013	ug/L	2.6	0.26%
QC value within limits for As 188.979 Recovery = 101.30%								
B	2982.1	1073	ug/L	11.6	1073	ug/L	11.6	1.08%
QC value within limits for B Recovery = 107.28%								
Ba 233.527	140620.7	964.6	ug/L	54.03	964.6	ug/L	54.03	5.60%
QC value within limits for Ba 233.527 Recovery = 96.46%								
Be 313.107	5366046.8	1014	ug/L	23.5	1014	ug/L	23.5	2.31%
QC value within limits for Be 313.107 Recovery = 101.35%								
Ca 315.887	515595.5	51130	ug/L	537.3	51130	ug/L	537.3	1.05%
QC value within limits for Ca 315.887 Recovery = 102.26%								
Cd 214.440	308919.6	1000.0	ug/L	60.45	1000.0	ug/L	60.45	6.05%
QC value within limits for Cd 214.440 Recovery = 100.00%								
Co 228.616	57599.2	982.7	ug/L	56.43	982.7	ug/L	56.43	5.74%
QC value within limits for Co 228.616 Recovery = 98.27%								
Cr 267.716	123980.6	981.8	ug/L	55.51	981.8	ug/L	55.51	5.65%
QC value within limits for Cr 267.716 Recovery = 98.18%								
Cu 327.393	86132.0	958.3	ug/L	34.82	958.3	ug/L	34.82	3.63%
QC value within limits for Cu 327.393 Recovery = 95.83%								
Fe 273.955	452519.1	19590	ug/L	1101.3	19590	ug/L	1101.3	5.62%
QC value within limits for Fe 273.955 Recovery = 97.95%								
K 766.490	35686.9	19780	ug/L	39.7	19780	ug/L	39.7	0.20%
QC value within limits for K 766.490 Recovery = 98.88%								
Mg 285.213	798634.7	50790	ug/L	435.9	50790	ug/L	435.9	0.86%
QC value within limits for Mg 285.213 Recovery = 101.58%								
Mn 257.610	44214.7	1013	ug/L	8.9	1013	ug/L	8.9	0.88%
QC value within limits for Mn 257.610 Recovery = 101.34%								
Mo 202.031	37913.4	977.7	ug/L	49.53	977.7	ug/L	49.53	5.07%
QC value within limits for Mo 202.031 Recovery = 97.77%								
Na 589.592	263349.8	24950	ug/L	208.8	24950	ug/L	208.8	0.84%
QC value within limits for Na 589.592 Recovery = 99.78%								
Ni 231.604	54948.7	992.2	ug/L	53.23	992.2	ug/L	53.23	5.36%
QC value within limits for Ni 231.604 Recovery = 99.22%								
P 213.617	27197.2	4925	ug/L	249.4	4925	ug/L	249.4	5.06%
QC value within limits for P 213.617 Recovery = 98.51%								
Pb 220.353	13408.0	1022	ug/L	2.1	1022	ug/L	2.1	0.21%
QC value within limits for Pb 220.353 Recovery = 102.21%								
Sb 206.836	5257.2	1010	ug/L	5.5	1010	ug/L	5.5	0.55%
QC value within limits for Sb 206.836 Recovery = 100.99%								
Se 196.026	4236.9	1031	ug/L	3.4	1031	ug/L	3.4	0.33%
QC value within limits for Se 196.026 Recovery = 103.10%								
Sn 189.927	6881.6	1031	ug/L	4.4	1031	ug/L	4.4	0.42%
QC value within limits for Sn 189.927 Recovery = 103.14%								
Sr 421.552	838783.1	998.8	ug/L	8.84	998.8	ug/L	8.84	0.88%
QC value within limits for Sr 421.552 Recovery = 99.88%								
Ti 337.279	35474.9	998.2	ug/L	9.75	998.2	ug/L	9.75	0.98%
QC value within limits for Ti 337.279 Recovery = 99.82%								
Tl 190.801	5886.5	1014	ug/L	0.9	1014	ug/L	0.9	0.09%
QC value within limits for Tl 190.801 Recovery = 101.43%								
V 292.402	205745.5	988.7	ug/L	52.35	988.7	ug/L	52.35	5.30%
QC value within limits for V 292.402 Recovery = 98.87%								
Zn 206.200	75892.6	1015	ug/L	63.7	1015	ug/L	63.7	6.28%
QC value within limits for Zn 206.200 Recovery = 101.46%								

All analyte(s) passed QC.

Sequence No.: 11 Autosampler Location: 1
Sample ID: CCB 121128EA I:PB O:EA Date Collected: 11/28/12 4:22:38 PM
Analyst: Data Type: Reprocessed on 11/29/12 2:04:10 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-42.9	-0.385	ug/L	0.8842	-0.385	ug/L	0.8842	229.74%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	13.1	9.034	ug/L	15.3699	9.034	ug/L	15.3699	170.14%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.7	1.876	ug/L	1.5506	1.876	ug/L	1.5506	82.65%
QC value within limits for As 188.979 Recovery = Not calculated								
B	53.7	18.24	ug/L	2.334	18.24	ug/L	2.334	12.80%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	9.4	0.064	ug/L	0.0917	0.064	ug/L	0.0917	143.88%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	127.0	0.024	ug/L	0.0156	0.024	ug/L	0.0156	65.11%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	32.4	3.209	ug/L	1.3114	3.209	ug/L	1.3114	40.86%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	32.6	0.106	ug/L	0.0339	0.106	ug/L	0.0339	31.93%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	5.4	0.094	ug/L	0.2829	0.094	ug/L	0.2829	300.68%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	22.5	0.178	ug/L	0.1159	0.178	ug/L	0.1159	65.22%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	58.0	0.646	ug/L	0.0593	0.646	ug/L	0.0593	9.19%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	18.9	0.841	ug/L	0.5380	0.841	ug/L	0.5380	63.97%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	15.5	8.620	ug/L	34.1907	8.620	ug/L	34.1907	396.65%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	33.9	2.158	ug/L	0.3704	2.158	ug/L	0.3704	17.16%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	3.7	0.086	ug/L	0.1584	0.086	ug/L	0.1584	184.25%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	34.3	0.882	ug/L	0.6141	0.882	ug/L	0.6141	69.60%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	343.1	32.52	ug/L	16.154	32.52	ug/L	16.154	49.68%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-6.1	-0.111	ug/L	0.1399	-0.111	ug/L	0.1399	126.49%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	2.7	0.485	ug/L	0.3301	0.485	ug/L	0.3301	68.11%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	27.7	2.113	ug/L	0.6396	2.113	ug/L	0.6396	30.27%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	18.7	3.587	ug/L	1.0531	3.587	ug/L	1.0531	29.35%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	7.7	1.849	ug/L	1.4552	1.849	ug/L	1.4552	78.71%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	42.5	6.374	ug/L	0.5413	6.374	ug/L	0.5413	8.49%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	163.5	0.195	ug/L	0.1779	0.195	ug/L	0.1779	91.38%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	3.8	0.106	ug/L	0.4046	0.106	ug/L	0.4046	382.40%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2.2	0.383	ug/L	0.2898	0.383	ug/L	0.2898	75.75%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-52.9	-0.236	ug/L	0.4887	-0.236	ug/L	0.4887	206.95%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	5.6	0.077	ug/L	0.0550	0.077	ug/L	0.0550	71.90%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 30
Sample ID: CCV1 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/28/12 6:18:27 PM
Data Type: Reprocessed on 11/29/12 2:04:30 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	56538.8	507.8	ug/L	4.97	507.8	ug/L	4.97	0.98%
QC value within limits for Ag 338.289 Recovery = 101.56%								
Al 308.215	29844.0	20730	ug/L	60.4	20730	ug/L	60.4	0.29%
QC value within limits for Al 308.215 Recovery = 103.66%								
As 188.979	4324.9	1052	ug/L	5.7	1052	ug/L	5.7	0.54%
QC value within limits for As 188.979 Recovery = 105.16%								
B	3133.0	1128	ug/L	14.2	1128	ug/L	14.2	1.26%
QC value greater than the upper limit for B Recovery = 112.84%								
Ba 233.527	150444.1	1032	ug/L	10.0	1032	ug/L	10.0	0.97%
QC value within limits for Ba 233.527 Recovery = 103.20%								
Be 313.107	5674093.6	1072	ug/L	15.9	1072	ug/L	15.9	1.48%
QC value within limits for Be 313.107 Recovery = 107.17%								
Ca 315.887	540541.1	53600	ug/L	620.2	53600	ug/L	620.2	1.16%
QC value within limits for Ca 315.887 Recovery = 107.21%								
Cd 214.440	330780.8	1071	ug/L	8.6	1071	ug/L	8.6	0.80%
QC value within limits for Cd 214.440 Recovery = 107.07%								
Co 228.616	61656.6	1052	ug/L	10.0	1052	ug/L	10.0	0.96%
QC value within limits for Co 228.616 Recovery = 105.20%								
Cr 267.716	132478.8	1049	ug/L	8.9	1049	ug/L	8.9	0.85%
QC value within limits for Cr 267.716 Recovery = 104.91%								
Cu 327.393	91824.4	1022	ug/L	11.7	1022	ug/L	11.7	1.15%
QC value within limits for Cu 327.393 Recovery = 102.17%								
Fe 273.955	483849.6	20950	ug/L	183.7	20950	ug/L	183.7	0.88%
QC value within limits for Fe 273.955 Recovery = 104.73%								
K 766.490	37595.3	20830	ug/L	294.3	20830	ug/L	294.3	1.41%
QC value within limits for K 766.490 Recovery = 104.16%								
Mg 285.213	836599.5	53210	ug/L	530.4	53210	ug/L	530.4	1.00%
QC value within limits for Mg 285.213 Recovery = 106.41%								
Mn 257.610	45969.6	1054	ug/L	2.5	1054	ug/L	2.5	0.24%
QC value within limits for Mn 257.610 Recovery = 105.36%								
Mo 202.031	40688.9	1049	ug/L	12.0	1049	ug/L	12.0	1.14%
QC value within limits for Mo 202.031 Recovery = 104.93%								
Na 589.592	276190.4	26160	ug/L	300.7	26160	ug/L	300.7	1.15%
QC value within limits for Na 589.592 Recovery = 104.65%								
Ni 231.604	58870.5	1063	ug/L	7.8	1063	ug/L	7.8	0.74%
QC value within limits for Ni 231.604 Recovery = 106.30%								
P 213.617	29177.9	5284	ug/L	47.0	5284	ug/L	47.0	0.89%
QC value within limits for P 213.617 Recovery = 105.68%								
Pb 220.353	13940.1	1063	ug/L	8.2	1063	ug/L	8.2	0.77%
QC value within limits for Pb 220.353 Recovery = 106.27%								
Sb 206.836	5459.9	1049	ug/L	6.5	1049	ug/L	6.5	0.62%
QC value within limits for Sb 206.836 Recovery = 104.88%								
Se 196.026	4409.7	1073	ug/L	10.4	1073	ug/L	10.4	0.97%
QC value within limits for Se 196.026 Recovery = 107.34%								
Sn 189.927	7290.6	1093	ug/L	15.2	1093	ug/L	15.2	1.39%
QC value within limits for Sn 189.927 Recovery = 109.27%								
Sr 421.552	877275.9	1045	ug/L	12.7	1045	ug/L	12.7	1.21%
QC value within limits for Sr 421.552 Recovery = 104.46%								
Ti 337.279	36849.2	1037	ug/L	5.5	1037	ug/L	5.5	0.53%
QC value within limits for Ti 337.279 Recovery = 103.69%								
Tl 190.801	6082.9	1048	ug/L	6.7	1048	ug/L	6.7	0.64%
QC value within limits for Tl 190.801 Recovery = 104.81%								
V 292.402	219758.8	1056	ug/L	9.8	1056	ug/L	9.8	0.92%
QC value within limits for V 292.402 Recovery = 105.61%								
Zn 206.200	81298.8	1087	ug/L	8.1	1087	ug/L	8.1	0.74%
QC value within limits for Zn 206.200 Recovery = 108.69%								

QC Failed. Continue with analysis.

Sequence No.: 31
Sample ID: CCB 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/28/12 6:26:10 PM
Data Type: Reprocessed on 11/29/12 2:04:31 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-148.8	-1.336	ug/L	0.8826	-1.336	ug/L	0.8826	66.05%
QC value less than the lower limit for Ag 338.289 Recovery = Not calculated								
Al 308.215	-1.4	-0.999	ug/L	3.8651	-0.999	ug/L	3.8651	387.02%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.8	1.178	ug/L	0.7857	1.178	ug/L	0.7857	66.72%
QC value within limits for As 188.979 Recovery = Not calculated								
B	33.6	11.41	ug/L	0.264	11.41	ug/L	0.264	2.31%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	3.3	0.022	ug/L	0.0352	0.022	ug/L	0.0352	157.38%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-267.1	-0.050	ug/L	0.0114	-0.050	ug/L	0.0114	22.53%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	56.7	5.624	ug/L	1.4027	5.624	ug/L	1.4027	24.94%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	13.0	0.042	ug/L	0.0846	0.042	ug/L	0.0846	199.97%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	21.0	0.360	ug/L	0.1670	0.360	ug/L	0.1670	46.42%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	14.9	0.117	ug/L	0.0808	0.117	ug/L	0.0808	68.97%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	35.3	0.393	ug/L	0.2556	0.393	ug/L	0.2556	65.08%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	16.0	0.716	ug/L	0.5349	0.716	ug/L	0.5349	74.71%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-121.8	-67.57	ug/L	58.027	-67.57	ug/L	58.027	85.88%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	17.9	1.142	ug/L	0.5461	1.142	ug/L	0.5461	47.82%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	22.6	0.519	ug/L	0.0403	0.519	ug/L	0.0403	7.77%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	8.9	0.229	ug/L	0.2730	0.229	ug/L	0.2730	119.38%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	511.6	48.53	ug/L	10.838	48.53	ug/L	10.838	22.33%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	2.7	0.048	ug/L	0.3793	0.048	ug/L	0.3793	789.70%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-3.3	-0.595	ug/L	1.0290	-0.595	ug/L	1.0290	173.02%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	6.1	0.461	ug/L	0.0415	0.461	ug/L	0.0415	9.00%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.7	0.709	ug/L	1.7972	0.709	ug/L	1.7972	253.51%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-10.1	-2.436	ug/L	2.4852	-2.436	ug/L	2.4852	102.03%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	4.7	0.699	ug/L	0.9304	0.699	ug/L	0.9304	133.19%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	252.1	0.300	ug/L	0.0361	0.300	ug/L	0.0361	12.02%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-10.8	-0.303	ug/L	0.1797	-0.303	ug/L	0.1797	59.30%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	1.7	0.291	ug/L	0.8209	0.291	ug/L	0.8209	282.52%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-53.2	-0.246	ug/L	0.6976	-0.246	ug/L	0.6976	283.03%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-36.3	-0.480	ug/L	0.0389	-0.480	ug/L	0.0389	8.10%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 42
Sample ID: CCV2 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 11/28/12 7:25:53 PM
Data Type: Reprocessed on 11/29/12 2:04:43 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	44555.1	400.2	ug/L	3.39	400.2	ug/L	3.39	0.85%
QC value within limits for Ag 338.289 Recovery = 106.71%								
Al 308.215	23588.9	16390	ug/L	115.5	16390	ug/L	115.5	0.70%
QC value within limits for Al 308.215 Recovery = 109.24%								
As 188.979	3426.6	833.2	ug/L	1.45	833.2	ug/L	1.45	0.17%
QC value greater than the upper limit for As 188.979 Recovery = 111.09%								
B	2400.0	865.4	ug/L	15.47	865.4	ug/L	15.47	1.79%
QC value greater than the upper limit for B Recovery = 115.39%								
Ba 233.527	118513.6	813.0	ug/L	8.01	813.0	ug/L	8.01	0.99%
QC value within limits for Ba 233.527 Recovery = 108.40%								
Be 313.107	4439265.2	838.5	ug/L	11.40	838.5	ug/L	11.40	1.36%
QC value greater than the upper limit for Be 313.107 Recovery = 111.80%								
Ca 315.887	424717.8	42120	ug/L	831.4	42120	ug/L	831.4	1.97%
QC value greater than the upper limit for Ca 315.887 Recovery = 112.32%								
Cd 214.440	259208.5	839.1	ug/L	8.26	839.1	ug/L	8.26	0.98%
QC value greater than the upper limit for Cd 214.440 Recovery = 111.87%								
Co 228.616	48679.3	830.5	ug/L	8.33	830.5	ug/L	8.33	1.00%
QC value greater than the upper limit for Co 228.616 Recovery = 110.74%								
Cr 267.716	103795.8	822.0	ug/L	6.54	822.0	ug/L	6.54	0.80%
QC value within limits for Cr 267.716 Recovery = 109.60%								
Cu 327.393	72641.7	808.2	ug/L	10.13	808.2	ug/L	10.13	1.25%
QC value within limits for Cu 327.393 Recovery = 107.77%								
Fe 273.955	378818.8	16400	ug/L	163.0	16400	ug/L	163.0	0.99%
QC value within limits for Fe 273.955 Recovery = 109.33%								
K 766.490	29737.4	16480	ug/L	288.1	16480	ug/L	288.1	1.75%
QC value within limits for K 766.490 Recovery = 109.86%								
Mg 285.213	653277.2	41550	ug/L	717.2	41550	ug/L	717.2	1.73%
QC value greater than the upper limit for Mg 285.213 Recovery = 110.79%								
Mn 257.610	36399.1	834.3	ug/L	8.31	834.3	ug/L	8.31	1.00%
QC value greater than the upper limit for Mn 257.610 Recovery = 111.23%								
Mo 202.031	31929.9	823.4	ug/L	7.26	823.4	ug/L	7.26	0.88%
QC value within limits for Mo 202.031 Recovery = 109.78%								
Na 589.592	219788.6	20820	ug/L	379.3	20820	ug/L	379.3	1.82%
QC value greater than the upper limit for Na 589.592 Recovery = 111.04%								
Ni 231.604	46368.2	837.3	ug/L	7.43	837.3	ug/L	7.43	0.89%
QC value greater than the upper limit for Ni 231.604 Recovery = 111.63%								
P 213.617	22968.0	4160	ug/L	51.1	4160	ug/L	51.1	1.23%
QC value greater than the upper limit for P 213.617 Recovery = 110.92%								
Pb 220.353	11023.3	840.3	ug/L	1.40	840.3	ug/L	1.40	0.17%
QC value greater than the upper limit for Pb 220.353 Recovery = 112.04%								
Sb 206.836	4349.0	835.4	ug/L	1.57	835.4	ug/L	1.57	0.19%
QC value greater than the upper limit for Sb 206.836 Recovery = 111.39%								
Se 196.026	3489.0	849.2	ug/L	6.26	849.2	ug/L	6.26	0.74%
QC value greater than the upper limit for Se 196.026 Recovery = 113.22%								
Sn 189.927	5759.9	863.2	ug/L	6.08	863.2	ug/L	6.08	0.70%
QC value greater than the upper limit for Sn 189.927 Recovery = 115.10%								
Sr 421.552	692542.6	824.7	ug/L	15.98	824.7	ug/L	15.98	1.94%
QC value within limits for Sr 421.552 Recovery = 109.96%								
Ti 337.279	29432.4	828.2	ug/L	10.73	828.2	ug/L	10.73	1.30%
QC value greater than the upper limit for Ti 337.279 Recovery = 110.42%								
Tl 190.801	4838.6	833.7	ug/L	5.89	833.7	ug/L	5.89	0.71%
QC value greater than the upper limit for Tl 190.801 Recovery = 111.16%								
V 292.402	172276.5	827.9	ug/L	9.89	827.9	ug/L	9.89	1.19%
QC value within limits for V 292.402 Recovery = 110.39%								
Zn 206.200	63522.7	849.2	ug/L	7.19	849.2	ug/L	7.19	0.85%
QC value greater than the upper limit for Zn 206.200 Recovery = 113.23%								

QC Failed. Continue with analysis.

Sequence No.: 43
Sample ID: CCB 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/28/12 7:32:36 PM
Data Type: Reprocessed on 11/29/12 2:04:44 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-108.3	-0.972	ug/L	0.4725	-0.972	ug/L	0.4725	48.60%
QC value less than the lower limit for Ag 338.289 Recovery = Not calculated								
Al 308.215	9.2	6.375	ug/L	4.8569	6.375	ug/L	4.8569	76.19%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	2.4	0.582	ug/L	0.8465	0.582	ug/L	0.8465	145.37%
QC value within limits for As 188.979 Recovery = Not calculated								
B	28.0	9.519	ug/L	0.5586	9.519	ug/L	0.5586	5.87%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	2.2	0.014	ug/L	0.0479	0.014	ug/L	0.0479	342.96%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-103.7	-0.020	ug/L	0.0276	-0.020	ug/L	0.0276	141.16%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	88.3	8.748	ug/L	1.0928	8.748	ug/L	1.0928	12.49%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	14.0	0.046	ug/L	0.0774	0.046	ug/L	0.0774	169.82%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	24.1	0.413	ug/L	0.3134	0.413	ug/L	0.3134	75.91%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	12.3	0.097	ug/L	0.0574	0.097	ug/L	0.0574	58.88%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-29.5	-0.328	ug/L	0.2817	-0.328	ug/L	0.2817	85.78%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	28.0	1.215	ug/L	0.1496	1.215	ug/L	0.1496	12.31%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	112.6	62.48	ug/L	22.846	62.48	ug/L	22.846	36.56%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	30.8	1.958	ug/L	0.3481	1.958	ug/L	0.3481	17.78%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	5.7	0.131	ug/L	0.1504	0.131	ug/L	0.1504	114.75%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	26.6	0.684	ug/L	0.2071	0.684	ug/L	0.2071	30.29%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	1559.7	147.8	ug/L	5.13	147.8	ug/L	5.13	3.47%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-7.8	-0.142	ug/L	0.0549	-0.142	ug/L	0.0549	38.69%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	0.5	0.094	ug/L	0.3448	0.094	ug/L	0.3448	367.56%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-4.8	-0.363	ug/L	0.6951	-0.363	ug/L	0.6951	191.43%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.0	0.583	ug/L	1.0403	0.583	ug/L	1.0403	178.31%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	0.1	0.010	ug/L	2.0899	0.010	ug/L	2.0899	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	0.7	0.110	ug/L	0.1881	0.110	ug/L	0.1881	170.41%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	138.3	0.165	ug/L	0.1835	0.165	ug/L	0.1835	111.48%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	5.3	0.148	ug/L	0.6950	0.148	ug/L	0.6950	469.39%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-0.2	-0.028	ug/L	0.4310	-0.028	ug/L	0.4310	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-4.5	-0.011	ug/L	0.5268	-0.011	ug/L	0.5268	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-56.4	-0.743	ug/L	0.0547	-0.743	ug/L	0.0547	7.37%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 121205A6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1
Sample ID: CalBlk 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 9:41:54 AM
Data Type: Reprocessed on 12/06/12 10:12:12 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CalBlk 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-285.5	98.06	34.35%	[0.00]	ug/L
Al 308.215	131.7	11.54	8.76%	[0.00]	ug/L
As 188.979	-3.2	5.27	163.63%	[0.00]	ug/L
B	3.8	13.03	342.06%	[0.00]	ug/L
Ba 233.527	155.1	13.37	8.62%	[0.00]	ug/L
Be 313.107	2029.5	101.46	5.00%	[0.00]	ug/L
Ca 315.887	-289.3	32.18	11.13%	[0.00]	ug/L
Cd 214.440	462.2	19.06	4.12%	[0.00]	ug/L
Co 228.616	96.5	20.64	21.38%	[0.00]	ug/L
Cr 267.716	857.1	12.89	1.50%	[0.00]	ug/L
Cu 327.393	-819.1	107.73	13.15%	[0.00]	ug/L
Fe 273.955	294.3	17.50	5.94%	[0.00]	ug/L
K 766.490	-496.4	39.07	7.87%	[0.00]	ug/L
Mg 285.213	-151.3	7.50	4.96%	[0.00]	ug/L
Mn 257.610	-74.2	5.40	7.28%	[0.00]	ug/L
Mo 202.031	177.7	9.21	5.18%	[0.00]	ug/L
Na 589.592	-148.2	134.40	90.68%	[0.00]	ug/L
Ni 231.604	-156.9	10.43	6.65%	[0.00]	ug/L
P 213.617	68.9	7.90	11.46%	[0.00]	ug/L
Pb 220.353	-28.4	3.93	13.83%	[0.00]	ug/L
Sb 206.836	-5.5	2.73	50.04%	[0.00]	ug/L
Se 196.026	-23.0	9.37	40.78%	[0.00]	ug/L
Sn 189.927	-14.3	3.95	27.72%	[0.00]	ug/L
Sr 421.552	873.4	132.64	15.19%	[0.00]	ug/L
Ti 337.279	-464.2	13.18	2.84%	[0.00]	ug/L
Tl 190.801	-13.0	1.44	11.05%	[0.00]	ug/L
V 292.402	-729.2	116.65	16.00%	[0.00]	ug/L
Zn 206.200	-538.5	10.20	1.89%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 12/05/12 9:46:14 AM
Data Type: Reprocessed on 12/06/12 10:12:13 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	71.4	28.31	39.67%	[1.00]	ug/L
Al 308.215	172.0	10.58	6.15%	[100.00]	ug/L
As 188.979	20.7	1.32	6.41%	[3.50]	ug/L
B	214.2	4.25	1.99%	[50.00]	ug/L
Ba 233.527	920.2	12.86	1.40%	[5.00]	ug/L
Be 313.107	14127.7	101.16	0.72%	[2.00]	ug/L
Ca 315.887	1266.2	23.19	1.83%	[100.00]	ug/L
Cd 214.440	2245.4	21.61	0.96%	[5.00]	ug/L
Co 228.616	406.5	1.33	0.33%	[5.00]	ug/L
Cr 267.716	851.8	12.64	1.48%	[5.00]	ug/L
Cu 327.393	812.3	179.51	22.10%	[5.00]	ug/L
Fe 273.955	1477.8	8.84	0.60%	[50.00]	ug/L
K 766.490	2086.1	57.22	2.74%	[1000.00]	ug/L
Mg 285.213	1062.2	5.76	0.54%	[50]	ug/L
Mn 257.610	287.6	10.85	3.77%	[5.00]	ug/L
Mo 202.031	251.9	13.59	5.39%	[5.00]	ug/L
Na 589.592	13206.9	42.86	0.32%	[1000.00]	ug/L
Ni 231.604	418.5	22.79	5.45%	[5.00]	ug/L
P 213.617	189.6	9.35	4.93%	[25.00]	ug/L
Pb 220.353	55.7	8.70	15.62%	[3.00]	ug/L
Sb 206.836	35.5	1.88	5.30%	[5.00]	ug/L
Se 196.026	29.3	3.53	12.07%	[5.00]	ug/L
Sn 189.927	43.6	4.72	10.85%	[5.00]	ug/L
Sr 421.552	5427.7	89.16	1.64%	[5.00]	ug/L
Ti 337.279	211.7	3.41	1.61%	[5.00]	ug/L
Tl 190.801	38.2	6.13	16.06%	[5.00]	ug/L
V 292.402	1463.6	152.11	10.39%	[5.00]	ug/L
Zn 206.200	2327.6	19.81	0.85%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 9:50:40 AM
Data Type: Reprocessed on 12/06/12 10:12:16 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	65369.6	460.16	0.70%	[500.0]	ug/L
Al 308.215	33816.5	230.58	0.68%	[20000.00]	ug/L
As 188.979	5632.1	39.14	0.70%	[1000.00]	ug/L
B	4114.9	53.17	1.29%	[1000.00]	ug/L
Ba 233.527	175255.0	233.84	0.13%	[1000.00]	ug/L
Be 313.107	6881288.1	29273.50	0.43%	[1000.00]	ug/L
Ca 315.887	622046.8	2722.65	0.44%	[50000]	ug/L
Cd 214.440	413333.8	609.20	0.15%	[1000.00]	ug/L
Co 228.616	74338.4	202.11	0.27%	[1000.00]	ug/L
Cr 267.716	156313.2	297.32	0.19%	[1000.00]	ug/L
Cu 327.393	124193.6	777.04	0.63%	[1000.00]	ug/L
Fe 273.955	560254.1	492.21	0.09%	[20000]	ug/L
K 766.490	42887.8	751.83	1.75%	[20000]	ug/L
Mg 285.213	978477.0	5196.56	0.53%	[50000]	ug/L
Mn 257.610	54405.8	348.65	0.64%	[1000.00]	ug/L
Mo 202.031	47511.6	286.11	0.60%	[1000.00]	ug/L
Na 589.592	319197.7	1655.17	0.52%	[25000]	ug/L
Ni 231.604	71278.1	135.04	0.19%	[1000.00]	ug/L
P 213.617	39518.8	183.32	0.46%	[5000]	ug/L
Pb 220.353	16866.2	138.20	0.82%	[1000.00]	ug/L
Sb 206.836	6471.8	32.35	0.50%	[1000.00]	ug/L
Se 196.026	5913.0	32.42	0.55%	[1000.00]	ug/L
Sn 189.927	8688.8	82.23	0.95%	[1000.00]	ug/L
Sr 421.552	964623.0	5236.09	0.54%	[1000.00]	ug/L
Ti 337.279	41884.1	352.93	0.84%	[1000.00]	ug/L
Tl 190.801	7192.2	62.92	0.87%	[1000.00]	ug/L
V 292.402	253339.6	267.27	0.11%	[1000.00]	ug/L
Zn 206.200	103791.7	235.98	0.23%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 12/05/12 9:53:21 AM
Data Type: Reprocessed on 12/06/12 10:12:20 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	129681.3	1651.97	1.27%	[1000.00]	ug/L
Al 308.215	66535.9	799.92	1.20%	[40000.00]	ug/L
As 188.979	11127.2	121.30	1.09%	[2000.00]	ug/L
B	8154.8	143.74	1.76%	[2000.00]	ug/L
Ba 233.527	343128.5	1419.76	0.41%	[2000.00]	ug/L
Be 313.107	13273827.5	76922.04	0.58%	[2000.00]	ug/L
Ca 315.887	1235512.8	7506.23	0.61%	[100000.0]	ug/L
Cd 214.440	797802.3	1866.48	0.23%	[2000.00]	ug/L
Co 228.616	145380.2	529.93	0.36%	[2000.00]	ug/L
Cr 267.716	304697.4	1583.52	0.52%	[2000.00]	ug/L
Cu 327.393	253995.0	3895.80	1.53%	[2000.00]	ug/L
Fe 273.955	1092857.1	3699.12	0.34%	[40000]	ug/L
K 766.490	86172.5	771.95	0.90%	[40000]	ug/L
Mg 285.213	1919777.1	9559.72	0.50%	[100000]	ug/L
Mn 257.610	106168.1	1365.95	1.29%	[2000.00]	ug/L
Mo 202.031	90898.6	269.92	0.30%	[2000.00]	ug/L
Na 589.592	636760.6	2427.69	0.38%	[50000]	ug/L
Ni 231.604	138279.3	363.32	0.26%	[2000.00]	ug/L
P 213.617	75803.0	366.75	0.48%	[10000]	ug/L
Pb 220.353	32563.3	286.03	0.88%	[2000.00]	ug/L
Sb 206.836	12885.5	125.47	0.97%	[2000.00]	ug/L
Se 196.026	11531.2	81.83	0.71%	[2000.00]	ug/L
Sn 189.927	17075.2	232.38	1.36%	[2000.00]	ug/L
Sr 421.552	1915206.2	8835.13	0.46%	[2000.00]	ug/L
Ti 337.279	82381.7	831.61	1.01%	[2000.00]	ug/L
Tl 190.801	14026.6	160.52	1.14%	[2000.00]	ug/L
V 292.402	498531.6	1618.75	0.32%	[2000.00]	ug/L
Zn 206.200	200413.4	863.50	0.43%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	129.9	0.00000	0.999995	
Al 308.215	3	Lin Thru 0	0.0	1.669	0.00000	0.999978	
As 188.979	3	Lin Thru 0	0.0	5.577	0.00000	0.999988	
B	3	Lin Thru 0	0.0	4.085	0.00000	0.999993	
Ba 233.527	3	Lin Thru 0	0.0	172.3	0.00000	0.999963	
Be 313.107	3	Lin Thru 0	0.0	6686	0.00000	0.999893	
Ca 315.887	3	Lin Thru 0	0.0	12.37	0.00000	0.999996	
Cd 214.440	3	Lin Thru 0	0.0	401.8	0.00000	0.999897	
Co 228.616	3	Lin Thru 0	0.0	73.02	0.00000	0.999959	
Cr 267.716	3	Lin Thru 0	0.0	153.1	0.00000	0.999946	
Cu 327.393	3	Lin Thru 0	0.0	126.4	0.00000	0.999960	
Fe 273.955	3	Lin Thru 0	0.0	27.46	0.00000	0.999949	
K 766.490	3	Lin Thru 0	0.0	2.152	0.00000	0.999998	
Mg 285.213	3	Lin Thru 0	0.0	19.27	0.00000	0.999970	
Mn 257.610	3	Lin Thru 0	0.0	53.35	0.00000	0.999951	
Mo 202.031	3	Lin Thru 0	0.0	45.86	0.00000	0.999838	
Na 589.592	3	Lin Thru 0	0.0	12.74	0.00000	0.999999	
Ni 231.604	3	Lin Thru 0	0.0	69.57	0.00000	0.999924	
P 213.617	3	Lin Thru 0	0.0	7.645	0.00000	0.999857	
Pb 220.353	3	Lin Thru 0	0.0	16.40	0.00000	0.999898	
Sb 206.836	3	Lin Thru 0	0.0	6.449	0.00000	0.999998	
Se 196.026	3	Lin Thru 0	0.0	5.795	0.00000	0.999948	
Sn 189.927	3	Lin Thru 0	0.0	8.568	0.00000	0.999975	
Sr 421.552	3	Lin Thru 0	0.0	959.0	0.00000	0.999996	
Ti 337.279	3	Lin Thru 0	0.0	41.33	0.00000	0.999977	
Tl 190.801	3	Lin Thru 0	0.0	7.049	0.00000	0.999948	

V 292.402	3	Lin Thru 0	0.0	250.1	0.00000	0.999979
Zn 206.200	3	Lin Thru 0	0.0	100.9	0.00000	0.999898

Sequence No.: 5
Sample ID: ICV 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 12/05/12 9:57:09 AM
Data Type: Reprocessed on 12/06/12 10:12:25 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	66064.1	508.6	ug/L	12.37	508.6	ug/L	12.37	2.43%
QC value within limits for Ag 338.289 Recovery = 101.72%								
Al 308.215	41975.7	25160	ug/L	100.2	25160	ug/L	100.2	0.40%
QC value within limits for Al 308.215 Recovery = 100.65%								
As 188.979	5501.0	986.3	ug/L	9.71	986.3	ug/L	9.71	0.98%
QC value within limits for As 188.979 Recovery = 98.63%								
B	4050.1	1070	ug/L	10.6	1070	ug/L	10.6	0.99%
QC value within limits for B Recovery = 107.03%								
Ba 233.527	171624.2	982.4	ug/L	9.83	982.4	ug/L	9.83	1.00%
QC value within limits for Ba 233.527 Recovery = 98.24%								
Be 313.107	6803937.7	1018	ug/L	11.1	1018	ug/L	11.1	1.09%
QC value within limits for Be 313.107 Recovery = 101.77%								
Ca 315.887	310154.9	25060	ug/L	104.0	25060	ug/L	104.0	0.42%
QC value within limits for Ca 315.887 Recovery = 100.23%								
Cd 214.440	411058.9	1022	ug/L	11.3	1022	ug/L	11.3	1.11%
QC value within limits for Cd 214.440 Recovery = 102.25%								
Co 228.616	74490.1	1019	ug/L	10.3	1019	ug/L	10.3	1.01%
QC value within limits for Co 228.616 Recovery = 101.95%								
Cr 267.716	156889.3	1026	ug/L	12.5	1026	ug/L	12.5	1.22%
QC value within limits for Cr 267.716 Recovery = 102.56%								
Cu 327.393	124079.2	981.4	ug/L	7.21	981.4	ug/L	7.21	0.73%
QC value within limits for Cu 327.393 Recovery = 98.14%								
Fe 273.955	694637.1	25210	ug/L	268.9	25210	ug/L	268.9	1.07%
QC value within limits for Fe 273.955 Recovery = 100.85%								
K 766.490	52544.1	24400	ug/L	158.1	24400	ug/L	158.1	0.65%
QC value within limits for K 766.490 Recovery = 97.61%								
Mg 285.213	490192.7	25460	ug/L	127.4	25460	ug/L	127.4	0.50%
QC value within limits for Mg 285.213 Recovery = 101.85%								
Mn 257.610	55533.6	1041	ug/L	5.1	1041	ug/L	5.1	0.49%
QC value within limits for Mn 257.610 Recovery = 104.13%								
Mo 202.031	47918.6	1047	ug/L	7.6	1047	ug/L	7.6	0.73%
QC value within limits for Mo 202.031 Recovery = 104.75%								
Na 589.592	310660.6	24360	ug/L	121.7	24360	ug/L	121.7	0.50%
QC value within limits for Na 589.592 Recovery = 97.44%								
Ni 231.604	72797.9	1044	ug/L	11.2	1044	ug/L	11.2	1.08%
QC value within limits for Ni 231.604 Recovery = 104.44%								
P 213.617	37934.5	4962	ug/L	36.0	4962	ug/L	36.0	0.73%
QC value within limits for P 213.617 Recovery = 99.24%								
Pb 220.353	17185.4	1048	ug/L	5.3	1048	ug/L	5.3	0.50%
QC value within limits for Pb 220.353 Recovery = 104.80%								
Sb 206.836	6762.5	1049	ug/L	7.5	1049	ug/L	7.5	0.72%
QC value within limits for Sb 206.836 Recovery = 104.87%								
Se 196.026	5894.9	1028	ug/L	12.0	1028	ug/L	12.0	1.17%
QC value within limits for Se 196.026 Recovery = 102.82%								
Sn 189.927	4515.2	527.0	ug/L	3.77	527.0	ug/L	3.77	0.71%
QC value within limits for Sn 189.927 Recovery = 105.40%								
Sr 421.552	939727.4	979.6	ug/L	4.52	979.6	ug/L	4.52	0.46%
QC value within limits for Sr 421.552 Recovery = 97.96%								
Ti 337.279	38869.5	940.0	ug/L	7.92	940.0	ug/L	7.92	0.84%
QC value within limits for Ti 337.279 Recovery = 94.00%								
Tl 190.801	7143.7	1013	ug/L	10.7	1013	ug/L	10.7	1.06%
QC value within limits for Tl 190.801 Recovery = 101.34%								
V 292.402	252113.7	1026	ug/L	10.8	1026	ug/L	10.8	1.05%
QC value within limits for V 292.402 Recovery = 102.57%								
Zn 206.200	105528.2	1055	ug/L	9.7	1055	ug/L	9.7	0.92%
QC value within limits for Zn 206.200 Recovery = 105.51%								

All analyte(s) passed QC.

Sequence No.: 6 Autosampler Location: 1
Sample ID: ICB 121205EA I:PB O:EA Date Collected: 12/05/12 10:00:53 AM
Analyst: Data Type: Reprocessed on 12/06/12 10:12:26 AM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: ICB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Ag 338.289	-31.2	-0.240	ug/L	0.1304	-0.240	ug/L	0.1304	54.33%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	16.5	9.866	ug/L	5.1303	9.866	ug/L	5.1303	52.00%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	1.5	0.266	ug/L	0.6967	0.266	ug/L	0.6967	261.98%
QC value within limits for As 188.979 Recovery = Not calculated								
B	50.2	12.29	ug/L	1.335	12.29	ug/L	1.335	10.86%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-0.6	-0.004	ug/L	0.0603	-0.004	ug/L	0.0603	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	30.5	0.005	ug/L	0.0226	0.005	ug/L	0.0226	495.04%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	20.2	1.630	ug/L	1.6390	1.630	ug/L	1.6390	100.55%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	42.7	0.107	ug/L	0.0600	0.107	ug/L	0.0600	56.22%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	1.3	0.019	ug/L	0.0989	0.019	ug/L	0.0989	525.80%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-17.0	-0.111	ug/L	0.0676	-0.111	ug/L	0.0676	60.96%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	55.6	0.440	ug/L	0.5493	0.440	ug/L	0.5493	124.98%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	21.7	0.784	ug/L	0.4356	0.784	ug/L	0.4356	55.53%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	138.8	64.47	ug/L	104.828	64.47	ug/L	104.828	162.59%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	35.9	1.861	ug/L	0.4357	1.861	ug/L	0.4357	23.41%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-2.8	-0.052	ug/L	0.1176	-0.052	ug/L	0.1176	225.89%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	25.4	0.554	ug/L	0.0857	0.554	ug/L	0.0857	15.47%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	51.8	4.037	ug/L	8.4698	4.037	ug/L	8.4698	209.80%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-24.9	-0.359	ug/L	0.0976	-0.359	ug/L	0.0976	27.20%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-0.5	-0.061	ug/L	0.9811	-0.061	ug/L	0.9811	>999.9%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	13.3	0.811	ug/L	0.7766	0.811	ug/L	0.7766	95.75%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	10.5	1.633	ug/L	0.8130	1.633	ug/L	0.8130	49.80%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-2.2	-0.374	ug/L	3.5161	-0.374	ug/L	3.5161	939.05%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	22.3	2.597	ug/L	0.3017	2.597	ug/L	0.3017	11.61%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	152.8	0.159	ug/L	0.2448	0.159	ug/L	0.2448	153.54%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	14.0	0.338	ug/L	0.2639	0.338	ug/L	0.2639	78.07%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	5.1	0.727	ug/L	0.4798	0.727	ug/L	0.4798	66.02%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	13.1	0.059	ug/L	0.4099	0.059	ug/L	0.4099	697.59%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-23.5	-0.232	ug/L	0.2315	-0.232	ug/L	0.2315	99.64%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8 Autosampler Location: 12
Sample ID: ICSA 121205EA I:PB O:EA Date Collected: 12/05/12 10:13:35 AM
Analyst: Data Type: Reprocessed on 12/06/12 10:12:28 AM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: ICSA 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	15.4	0.119	ug/L	0.4831	0.119	ug/L	0.4831	407.31%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	318154.2	190700	ug/L	3080.5	190700	ug/L	3080.5	1.62%
QC value within limits for Al 308.215 Recovery = 95.33%								
As 188.979	3.4	0.617	ug/L	0.3376	0.617	ug/L	0.3376	54.75%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2096.2	50.21	ug/L	9.819	50.21	ug/L	9.819	19.55%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	17554.0	0.115	ug/L	3.3435	0.115	ug/L	3.3435	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-860.8	-0.129	ug/L	0.0149	-0.129	ug/L	0.0149	11.61%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2383265.7	192600	ug/L	3182.5	192600	ug/L	3182.5	1.65%
QC value within limits for Ca 315.887 Recovery = 96.30%								
Cd 214.440	3633.5	-0.101	ug/L	0.1738	-0.101	ug/L	0.1738	171.65%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	296.5	-0.018	ug/L	0.4547	-0.018	ug/L	0.4547	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-60.5	0.160	ug/L	0.2606	0.160	ug/L	0.2606	163.00%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-186.0	-1.471	ug/L	0.4392	-1.471	ug/L	0.4392	29.86%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4891063.1	178100	ug/L	1967.6	178100	ug/L	1967.6	1.10%
QC value within limits for Fe 273.955 Recovery = 89.05%								
K 766.490	159.9	-39.15	ug/L	39.600	-39.15	ug/L	39.600	101.14%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3601480.7	187100	ug/L	2883.4	187100	ug/L	2883.4	1.54%
QC value within limits for Mg 285.213 Recovery = 93.54%								
Mn 257.610	-123.0	-1.321	ug/L	0.2889	-1.321	ug/L	0.2889	21.87%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-664.1	-0.990	ug/L	0.2686	-0.990	ug/L	0.2686	27.13%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	22.9	-42.75	ug/L	0.760	-42.75	ug/L	0.760	1.78%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	12.7	-0.015	ug/L	0.5502	-0.015	ug/L	0.5502	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-24.2	-3.170	ug/L	0.8768	-3.170	ug/L	0.8768	27.66%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	17.7	1.078	ug/L	0.9012	1.078	ug/L	0.9012	83.57%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	1.2	0.190	ug/L	0.7490	0.190	ug/L	0.7490	393.21%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-489.0	0.065	ug/L	3.5825	0.065	ug/L	3.5825	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-3.0	-0.354	ug/L	0.4843	-0.354	ug/L	0.4843	136.92%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2310.6	0.253	ug/L	0.0181	0.253	ug/L	0.0181	7.16%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	85.8	-1.278	ug/L	0.4213	-1.278	ug/L	0.4213	32.96%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-4.4	-0.618	ug/L	1.0503	-0.618	ug/L	1.0503	169.87%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	10699.5	-0.023	ug/L	0.7744	-0.023	ug/L	0.7744	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	774.7	-1.316	ug/L	0.5647	-1.316	ug/L	0.5647	42.90%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 12/05/12 10:18:14 AM
Data Type: Reprocessed on 12/06/12 10:12:29 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	129665.2	998.2	ug/L	10.14	998.2	ug/L	10.14	1.02%
QC value within limits for Ag 338.289 Recovery = 99.82%								
Al 308.215	317865.2	190500	ug/L	1164.2	190500	ug/L	1164.2	0.61%
QC value within limits for Al 308.215 Recovery = 95.24%								
As 188.979	2627.4	471.1	ug/L	0.70	471.1	ug/L	0.70	0.15%
QC value within limits for As 188.979 Recovery = 94.22%								
B	-2103.2	41.97	ug/L	12.197	41.97	ug/L	12.197	29.06%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	96267.0	458.3	ug/L	5.00	458.3	ug/L	5.00	1.09%
QC value within limits for Ba 233.527 Recovery = 91.67%								
Be 313.107	3095321.7	463.0	ug/L	2.90	463.0	ug/L	2.90	0.63%
QC value within limits for Be 313.107 Recovery = 92.59%								
Ca 315.887	2380835.7	192400	ug/L	1310.0	192400	ug/L	1310.0	0.68%
QC value within limits for Ca 315.887 Recovery = 96.20%								
Cd 214.440	367860.7	906.7	ug/L	8.39	906.7	ug/L	8.39	0.93%
QC value within limits for Cd 214.440 Recovery = 90.67%								
Co 228.616	33206.2	451.6	ug/L	5.28	451.6	ug/L	5.28	1.17%
QC value within limits for Co 228.616 Recovery = 90.32%								
Cr 267.716	70615.2	462.2	ug/L	2.95	462.2	ug/L	2.95	0.64%
QC value within limits for Cr 267.716 Recovery = 92.43%								
Cu 327.393	58801.6	465.1	ug/L	6.08	465.1	ug/L	6.08	1.31%
QC value within limits for Cu 327.393 Recovery = 93.01%								
Fe 273.955	4841411.2	176300	ug/L	893.8	176300	ug/L	893.8	0.51%
QC value within limits for Fe 273.955 Recovery = 88.13%								
K 766.490	245.2	0.230	ug/L	67.2082	0.230	ug/L	67.2082	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3604298.1	187200	ug/L	1139.2	187200	ug/L	1139.2	0.61%
QC value within limits for Mg 285.213 Recovery = 93.61%								
Mn 257.610	25165.1	472.7	ug/L	4.75	472.7	ug/L	4.75	1.01%
QC value within limits for Mn 257.610 Recovery = 94.53%								
Mo 202.031	21210.4	476.2	ug/L	1.41	476.2	ug/L	1.41	0.30%
QC value within limits for Mo 202.031 Recovery = 95.24%								
Na 589.592	238.4	-27.47	ug/L	16.403	-27.47	ug/L	16.403	59.71%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	63667.6	914.1	ug/L	8.85	914.1	ug/L	8.85	0.97%
QC value within limits for Ni 231.604 Recovery = 91.41%								
P 213.617	-4.2	-0.555	ug/L	2.0106	-0.555	ug/L	2.0106	362.13%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	15434.3	941.2	ug/L	1.55	941.2	ug/L	1.55	0.16%
QC value within limits for Pb 220.353 Recovery = 94.12%								
Sb 206.836	3086.6	478.6	ug/L	1.56	478.6	ug/L	1.56	0.33%
QC value within limits for Sb 206.836 Recovery = 95.73%								
Se 196.026	2269.0	474.9	ug/L	4.84	474.9	ug/L	4.84	1.02%
QC value within limits for Se 196.026 Recovery = 94.98%								
Sn 189.927	-6.2	-0.718	ug/L	1.2353	-0.718	ug/L	1.2353	171.94%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2107.0	0.053	ug/L	0.1517	0.053	ug/L	0.1517	285.31%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	88.5	-1.163	ug/L	0.5253	-1.163	ug/L	0.5253	45.19%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3237.1	459.2	ug/L	1.59	459.2	ug/L	1.59	0.35%
QC value within limits for Tl 190.801 Recovery = 91.85%								
V 292.402	128337.1	481.9	ug/L	4.10	481.9	ug/L	4.10	0.85%
QC value within limits for V 292.402 Recovery = 96.38%								
Zn 206.200	92651.5	913.8	ug/L	9.56	913.8	ug/L	9.56	1.05%
QC value within limits for Zn 206.200 Recovery = 91.38%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 10:22:52 AM
Data Type: Reprocessed on 12/06/12 10:12:30 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	64611.6	497.4	ug/L	6.13	497.4	ug/L	6.13	1.23%
QC value within limits for Ag 338.289 Recovery = 99.48%								
Al 308.215	34352.1	20590	ug/L	165.6	20590	ug/L	165.6	0.80%
QC value within limits for Al 308.215 Recovery = 102.97%								
As 188.979	5775.3	1035	ug/L	8.9	1035	ug/L	8.9	0.86%
QC value within limits for As 188.979 Recovery = 103.55%								
B	4192.0	1089	ug/L	11.7	1089	ug/L	11.7	1.07%
QC value within limits for B Recovery = 108.89%								
Ba 233.527	177032.9	1016	ug/L	9.8	1016	ug/L	9.8	0.97%
QC value within limits for Ba 233.527 Recovery = 101.64%								
Be 313.107	6967074.4	1042	ug/L	7.3	1042	ug/L	7.3	0.70%
QC value within limits for Be 313.107 Recovery = 104.21%								
Ca 315.887	635336.1	51340	ug/L	251.0	51340	ug/L	251.0	0.49%
QC value within limits for Ca 315.887 Recovery = 102.68%								
Cd 214.440	421274.0	1048	ug/L	10.2	1048	ug/L	10.2	0.98%
QC value within limits for Cd 214.440 Recovery = 104.81%								
Co 228.616	75402.9	1032	ug/L	10.4	1032	ug/L	10.4	1.01%
QC value within limits for Co 228.616 Recovery = 103.18%								
Cr 267.716	157760.8	1031	ug/L	10.7	1031	ug/L	10.7	1.04%
QC value within limits for Cr 267.716 Recovery = 103.10%								
Cu 327.393	124760.9	986.7	ug/L	16.26	986.7	ug/L	16.26	1.65%
QC value within limits for Cu 327.393 Recovery = 98.67%								
Fe 273.955	567043.1	20560	ug/L	202.1	20560	ug/L	202.1	0.98%
QC value within limits for Fe 273.955 Recovery = 102.82%								
K 766.490	43613.2	20250	ug/L	243.1	20250	ug/L	243.1	1.20%
QC value within limits for K 766.490 Recovery = 101.23%								
Mg 285.213	993368.3	51570	ug/L	224.0	51570	ug/L	224.0	0.43%
QC value within limits for Mg 285.213 Recovery = 103.13%								
Mn 257.610	55659.6	1042	ug/L	11.8	1042	ug/L	11.8	1.14%
QC value within limits for Mn 257.610 Recovery = 104.22%								
Mo 202.031	48449.7	1059	ug/L	10.1	1059	ug/L	10.1	0.96%
QC value within limits for Mo 202.031 Recovery = 105.86%								
Na 589.592	321804.6	25230	ug/L	105.5	25230	ug/L	105.5	0.42%
QC value within limits for Na 589.592 Recovery = 100.93%								
Ni 231.604	72491.6	1040	ug/L	11.4	1040	ug/L	11.4	1.10%
QC value within limits for Ni 231.604 Recovery = 103.99%								
P 213.617	40775.1	5334	ug/L	31.0	5334	ug/L	31.0	0.58%
QC value within limits for P 213.617 Recovery = 106.67%								
Pb 220.353	17427.6	1063	ug/L	7.0	1063	ug/L	7.0	0.66%
QC value within limits for Pb 220.353 Recovery = 106.28%								
Sb 206.836	6618.8	1026	ug/L	9.1	1026	ug/L	9.1	0.89%
QC value within limits for Sb 206.836 Recovery = 102.64%								
Se 196.026	6092.8	1059	ug/L	2.8	1059	ug/L	2.8	0.26%
QC value within limits for Se 196.026 Recovery = 105.92%								
Sn 189.927	8939.0	1043	ug/L	7.2	1043	ug/L	7.2	0.69%
QC value within limits for Sn 189.927 Recovery = 104.33%								
Sr 421.552	967145.0	1008	ug/L	6.0	1008	ug/L	6.0	0.60%
QC value within limits for Sr 421.552 Recovery = 100.81%								
Ti 337.279	42402.1	1025	ug/L	10.1	1025	ug/L	10.1	0.99%
QC value within limits for Ti 337.279 Recovery = 102.51%								
Tl 190.801	7407.0	1051	ug/L	14.2	1051	ug/L	14.2	1.35%
QC value within limits for Tl 190.801 Recovery = 105.08%								
V 292.402	254597.0	1037	ug/L	9.4	1037	ug/L	9.4	0.91%
QC value within limits for V 292.402 Recovery = 103.69%								
Zn 206.200	106409.4	1064	ug/L	11.6	1064	ug/L	11.6	1.09%
QC value within limits for Zn 206.200 Recovery = 106.43%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 10:26:35 AM
Data Type: Reprocessed on 12/06/12 10:12:31 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	38.7	0.298	ug/L	1.5262	0.298	ug/L	1.5262	511.98%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	32.9	19.70	ug/L	1.099	19.70	ug/L	1.099	5.58%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	3.7	0.660	ug/L	1.3233	0.660	ug/L	1.3233	200.65%
QC value within limits for As 188.979 Recovery = Not calculated								
B	34.7	8.511	ug/L	1.3629	8.511	ug/L	1.3629	16.01%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	23.9	0.137	ug/L	0.0349	0.137	ug/L	0.0349	25.47%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-182.0	-0.027	ug/L	0.0246	-0.027	ug/L	0.0246	90.27%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	83.6	6.758	ug/L	1.3570	6.758	ug/L	1.3570	20.08%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	41.1	0.103	ug/L	0.0224	0.103	ug/L	0.0224	21.84%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	10.6	0.148	ug/L	0.3560	0.148	ug/L	0.3560	240.88%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-2.4	-0.015	ug/L	0.0728	-0.015	ug/L	0.0728	474.88%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	19.3	0.152	ug/L	1.5648	0.152	ug/L	1.5648	>999.9%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	66.4	2.415	ug/L	0.5099	2.415	ug/L	0.5099	21.12%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-31.3	-14.53	ug/L	63.265	-14.53	ug/L	63.265	435.50%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	64.6	3.355	ug/L	1.0394	3.355	ug/L	1.0394	30.98%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	1.2	0.023	ug/L	0.1426	0.023	ug/L	0.1426	615.99%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	23.6	0.514	ug/L	0.1563	0.514	ug/L	0.1563	30.39%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-11.6	-0.911	ug/L	6.1586	-0.911	ug/L	6.1586	676.33%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-26.2	-0.377	ug/L	0.1057	-0.377	ug/L	0.1057	28.05%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	1.3	0.172	ug/L	0.5765	0.172	ug/L	0.5765	335.71%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	23.6	1.440	ug/L	0.8979	1.440	ug/L	0.8979	62.37%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	8.3	1.292	ug/L	0.6071	1.292	ug/L	0.6071	47.00%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	0.8	0.146	ug/L	2.6049	0.146	ug/L	2.6049	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	15.4	1.802	ug/L	1.1195	1.802	ug/L	1.1195	62.12%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	194.8	0.203	ug/L	0.1564	0.203	ug/L	0.1564	77.01%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-13.4	-0.325	ug/L	0.0572	-0.325	ug/L	0.0572	17.61%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2.2	0.306	ug/L	0.5000	0.306	ug/L	0.5000	163.37%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	4.5	0.025	ug/L	0.4778	0.025	ug/L	0.4778	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-65.4	-0.648	ug/L	0.1116	-0.648	ug/L	0.1116	17.22%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 57
Sample ID: CCV1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 2:03:31 PM
Data Type: Reprocessed on 12/06/12 10:13:18 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	63646.9	490.0	ug/L	3.70	490.0	ug/L	3.70	0.75%
QC value within limits for Ag 338.289 Recovery = 98.00%								
Al 308.215	34860.9	20900	ug/L	270.1	20900	ug/L	270.1	1.29%
QC value within limits for Al 308.215 Recovery = 104.49%								
As 188.979	5626.9	1009	ug/L	5.0	1009	ug/L	5.0	0.49%
QC value within limits for As 188.979 Recovery = 100.89%								
B	4154.7	1080	ug/L	16.5	1080	ug/L	16.5	1.53%
QC value within limits for B Recovery = 107.96%								
Ba 233.527	177035.8	1016	ug/L	6.6	1016	ug/L	6.6	0.65%
QC value within limits for Ba 233.527 Recovery = 101.64%								
Be 313.107	6885335.8	1030	ug/L	8.3	1030	ug/L	8.3	0.80%
QC value within limits for Be 313.107 Recovery = 102.98%								
Ca 315.887	654581.3	52900	ug/L	618.3	52900	ug/L	618.3	1.17%
QC value within limits for Ca 315.887 Recovery = 105.79%								
Cd 214.440	417884.1	1040	ug/L	6.8	1040	ug/L	6.8	0.65%
QC value within limits for Cd 214.440 Recovery = 103.97%								
Co 228.616	75298.7	1030	ug/L	6.4	1030	ug/L	6.4	0.62%
QC value within limits for Co 228.616 Recovery = 103.03%								
Cr 267.716	157332.4	1028	ug/L	5.8	1028	ug/L	5.8	0.57%
QC value within limits for Cr 267.716 Recovery = 102.82%								
Cu 327.393	123204.9	974.4	ug/L	10.73	974.4	ug/L	10.73	1.10%
QC value within limits for Cu 327.393 Recovery = 97.44%								
Fe 273.955	566468.5	20540	ug/L	130.3	20540	ug/L	130.3	0.63%
QC value within limits for Fe 273.955 Recovery = 102.72%								
K 766.490	44322.7	20570	ug/L	304.8	20570	ug/L	304.8	1.48%
QC value within limits for K 766.490 Recovery = 102.87%								
Mg 285.213	1018504.8	52870	ug/L	471.7	52870	ug/L	471.7	0.89%
QC value within limits for Mg 285.213 Recovery = 105.74%								
Mn 257.610	56248.8	1053	ug/L	17.7	1053	ug/L	17.7	1.68%
QC value within limits for Mn 257.610 Recovery = 105.32%								
Mo 202.031	47668.4	1042	ug/L	6.5	1042	ug/L	6.5	0.63%
QC value within limits for Mo 202.031 Recovery = 104.15%								
Na 589.592	324715.9	25460	ug/L	247.0	25460	ug/L	247.0	0.97%
QC value within limits for Na 589.592 Recovery = 101.85%								
Ni 231.604	71878.7	1031	ug/L	6.7	1031	ug/L	6.7	0.65%
QC value within limits for Ni 231.604 Recovery = 103.11%								
P 213.617	39590.0	5179	ug/L	40.2	5179	ug/L	40.2	0.78%
QC value within limits for P 213.617 Recovery = 103.57%								
Pb 220.353	17010.2	1037	ug/L	12.6	1037	ug/L	12.6	1.21%
QC value within limits for Pb 220.353 Recovery = 103.73%								
Sb 206.836	6539.4	1014	ug/L	15.1	1014	ug/L	15.1	1.49%
QC value within limits for Sb 206.836 Recovery = 101.41%								
Se 196.026	5932.3	1031	ug/L	9.2	1031	ug/L	9.2	0.89%
QC value within limits for Se 196.026 Recovery = 103.14%								
Sn 189.927	8962.3	1046	ug/L	16.0	1046	ug/L	16.0	1.52%
QC value within limits for Sn 189.927 Recovery = 104.60%								
Sr 421.552	990521.5	1032	ug/L	9.9	1032	ug/L	9.9	0.96%
QC value within limits for Sr 421.552 Recovery = 103.25%								
Ti 337.279	43369.2	1049	ug/L	15.6	1049	ug/L	15.6	1.49%
QC value within limits for Ti 337.279 Recovery = 104.85%								
Tl 190.801	7173.6	1018	ug/L	9.0	1018	ug/L	9.0	0.88%
QC value within limits for Tl 190.801 Recovery = 101.77%								
V 292.402	255198.4	1039	ug/L	6.4	1039	ug/L	6.4	0.62%
QC value within limits for V 292.402 Recovery = 103.90%								
Zn 206.200	105436.0	1055	ug/L	7.7	1055	ug/L	7.7	0.73%
QC value within limits for Zn 206.200 Recovery = 105.46%								

All analyte(s) passed QC.

Sequence No.: 58
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 2:07:14 PM
Data Type: Reprocessed on 12/06/12 10:13:19 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	39.4	0.304	ug/L	0.3595	0.304	ug/L	0.3595	118.37%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	13.4	8.026	ug/L	0.5891	8.026	ug/L	0.5891	7.34%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.2	1.288	ug/L	0.1786	1.288	ug/L	0.1786	13.86%
QC value within limits for As 188.979 Recovery = Not calculated								
B	25.6	6.269	ug/L	4.4722	6.269	ug/L	4.4722	71.33%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	8.5	0.048	ug/L	0.0932	0.048	ug/L	0.0932	195.94%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-396.7	-0.059	ug/L	0.0163	-0.059	ug/L	0.0163	27.55%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	64.0	5.168	ug/L	1.4265	5.168	ug/L	1.4265	27.60%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	4.5	0.012	ug/L	0.0260	0.012	ug/L	0.0260	222.63%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	15.2	0.211	ug/L	0.1224	0.211	ug/L	0.1224	58.03%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-20.2	-0.132	ug/L	0.1634	-0.132	ug/L	0.1634	123.79%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	163.9	1.296	ug/L	1.4512	1.296	ug/L	1.4512	111.95%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	50.3	1.838	ug/L	0.9338	1.838	ug/L	0.9338	50.81%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	56.8	26.36	ug/L	57.722	26.36	ug/L	57.722	218.95%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	36.9	1.914	ug/L	0.2550	1.914	ug/L	0.2550	13.32%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-1.1	-0.020	ug/L	0.1791	-0.020	ug/L	0.1791	893.93%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	33.6	0.733	ug/L	0.2712	0.733	ug/L	0.2712	37.01%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-145.3	-11.42	ug/L	9.986	-11.42	ug/L	9.986	87.46%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-27.2	-0.392	ug/L	0.1401	-0.392	ug/L	0.1401	35.71%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-8.2	-1.071	ug/L	1.6421	-1.071	ug/L	1.6421	153.29%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	12.4	0.754	ug/L	0.9358	0.754	ug/L	0.9358	124.05%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	4.3	0.660	ug/L	0.6797	0.660	ug/L	0.6797	102.98%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-0.1	-0.011	ug/L	0.9415	-0.011	ug/L	0.9415	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	5.5	0.641	ug/L	0.7443	0.641	ug/L	0.7443	116.17%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	380.2	0.396	ug/L	0.0785	0.396	ug/L	0.0785	19.79%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-11.3	-0.274	ug/L	0.4417	-0.274	ug/L	0.4417	160.94%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.9	1.256	ug/L	0.5162	1.256	ug/L	0.5162	41.09%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-22.9	-0.083	ug/L	0.8423	-0.083	ug/L	0.8423	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-109.2	-1.083	ug/L	0.0881	-1.083	ug/L	0.0881	8.14%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 68
Sample ID: CCV2 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 12/05/12 3:23:33 PM
Data Type: Reprocessed on 12/06/12 10:13:29 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	49907.2	384.2	ug/L	3.08	384.2	ug/L	3.08	0.80%
QC value within limits for Ag 338.289 Recovery = 102.46%								
Al 308.215	27614.1	16550	ug/L	109.9	16550	ug/L	109.9	0.66%
QC value within limits for Al 308.215 Recovery = 110.36%								
As 188.979	4403.6	789.6	ug/L	2.89	789.6	ug/L	2.89	0.37%
QC value within limits for As 188.979 Recovery = 105.27%								
B	3241.6	841.4	ug/L	8.14	841.4	ug/L	8.14	0.97%
QC value greater than the upper limit for B Recovery = 112.19%								
Ba 233.527	136166.3	781.8	ug/L	4.40	781.8	ug/L	4.40	0.56%
QC value within limits for Ba 233.527 Recovery = 104.24%								
Be 313.107	5355865.3	801.1	ug/L	1.80	801.1	ug/L	1.80	0.22%
QC value within limits for Be 313.107 Recovery = 106.81%								
Ca 315.887	525429.4	42460	ug/L	482.2	42460	ug/L	482.2	1.14%
QC value greater than the upper limit for Ca 315.887 Recovery = 113.23%								
Cd 214.440	323283.8	804.3	ug/L	5.75	804.3	ug/L	5.75	0.72%
QC value within limits for Cd 214.440 Recovery = 107.24%								
Co 228.616	58251.2	796.9	ug/L	6.49	796.9	ug/L	6.49	0.81%
QC value within limits for Co 228.616 Recovery = 106.25%								
Cr 267.716	120502.7	787.4	ug/L	5.05	787.4	ug/L	5.05	0.64%
QC value within limits for Cr 267.716 Recovery = 104.99%								
Cu 327.393	96635.1	764.3	ug/L	5.26	764.3	ug/L	5.26	0.69%
QC value within limits for Cu 327.393 Recovery = 101.91%								
Fe 273.955	435527.5	15800	ug/L	101.7	15800	ug/L	101.7	0.64%
QC value within limits for Fe 273.955 Recovery = 105.30%								
K 766.490	34725.1	16120	ug/L	223.3	16120	ug/L	223.3	1.39%
QC value within limits for K 766.490 Recovery = 107.46%								
Mg 285.213	810383.6	42070	ug/L	399.5	42070	ug/L	399.5	0.95%
QC value greater than the upper limit for Mg 285.213 Recovery = 112.18%								
Mn 257.610	44266.7	828.8	ug/L	3.46	828.8	ug/L	3.46	0.42%
QC value greater than the upper limit for Mn 257.610 Recovery = 110.50%								
Mo 202.031	35951.2	785.5	ug/L	4.03	785.5	ug/L	4.03	0.51%
QC value within limits for Mo 202.031 Recovery = 104.74%								
Na 589.592	256184.3	20090	ug/L	210.1	20090	ug/L	210.1	1.05%
QC value within limits for Na 589.592 Recovery = 107.14%								
Ni 231.604	55559.4	797.0	ug/L	4.74	797.0	ug/L	4.74	0.59%
QC value within limits for Ni 231.604 Recovery = 106.27%								
P 213.617	30641.4	4008	ug/L	48.1	4008	ug/L	48.1	1.20%
QC value within limits for P 213.617 Recovery = 106.88%								
Pb 220.353	13198.5	804.9	ug/L	1.58	804.9	ug/L	1.58	0.20%
QC value within limits for Pb 220.353 Recovery = 107.31%								
Sb 206.836	5197.2	805.9	ug/L	1.07	805.9	ug/L	1.07	0.13%
QC value within limits for Sb 206.836 Recovery = 107.46%								
Se 196.026	4628.2	804.4	ug/L	1.79	804.4	ug/L	1.79	0.22%
QC value within limits for Se 196.026 Recovery = 107.26%								
Sn 189.927	6734.6	786.0	ug/L	4.24	786.0	ug/L	4.24	0.54%
QC value within limits for Sn 189.927 Recovery = 104.80%								
Sr 421.552	791082.4	824.6	ug/L	6.75	824.6	ug/L	6.75	0.82%
QC value within limits for Sr 421.552 Recovery = 109.95%								
Ti 337.279	35144.1	849.7	ug/L	6.17	849.7	ug/L	6.17	0.73%
QC value greater than the upper limit for Ti 337.279 Recovery = 113.29%								
Tl 190.801	5664.6	803.6	ug/L	0.91	803.6	ug/L	0.91	0.11%
QC value within limits for Tl 190.801 Recovery = 107.15%								
V 292.402	195315.9	795.0	ug/L	4.80	795.0	ug/L	4.80	0.60%
QC value within limits for V 292.402 Recovery = 106.00%								
Zn 206.200	81083.5	811.0	ug/L	5.13	811.0	ug/L	5.13	0.63%
QC value within limits for Zn 206.200 Recovery = 108.14%								

QC Failed. Continue with analysis.

Sequence No.: 69
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 12/05/12 3:29:31 PM
Data Type: Reprocessed on 12/06/12 10:13:30 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	62.2	0.479	ug/L	1.0880	0.479	ug/L	1.0880	227.23%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	27.9	16.70	ug/L	10.779	16.70	ug/L	10.779	64.56%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.1	0.742	ug/L	0.7184	0.742	ug/L	0.7184	96.81%
QC value within limits for As 188.979 Recovery = Not calculated								
B	49.9	12.20	ug/L	2.788	12.20	ug/L	2.788	22.85%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-5.8	-0.032	ug/L	0.0387	-0.032	ug/L	0.0387	119.24%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	63.0	0.009	ug/L	0.0140	0.009	ug/L	0.0140	148.20%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	1133.4	91.61	ug/L	10.182	91.61	ug/L	10.182	11.12%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	27.1	0.068	ug/L	0.0045	0.068	ug/L	0.0045	6.61%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-22.8	-0.310	ug/L	0.0801	-0.310	ug/L	0.0801	25.79%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-64.6	-0.422	ug/L	0.1703	-0.422	ug/L	0.1703	40.37%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	173.2	1.370	ug/L	0.6923	1.370	ug/L	0.6923	50.53%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	-62.3	-2.296	ug/L	0.5395	-2.296	ug/L	0.5395	23.50%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	122.4	56.85	ug/L	69.716	56.85	ug/L	69.716	122.62%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	76.2	3.950	ug/L	0.4022	3.950	ug/L	0.4022	10.18%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	2.0	0.037	ug/L	0.0844	0.037	ug/L	0.0844	228.85%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	25.2	0.549	ug/L	0.0433	0.549	ug/L	0.0433	7.89%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	453.5	35.56	ug/L	7.229	35.56	ug/L	7.229	20.33%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	7.3	0.105	ug/L	0.1912	0.105	ug/L	0.1912	182.73%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	241.9	31.65	ug/L	2.975	31.65	ug/L	2.975	9.40%
QC value greater than the upper limit for P 213.617 Recovery = Not calculated								
Pb 220.353	18.2	1.108	ug/L	0.3606	1.108	ug/L	0.3606	32.55%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	9.5	1.467	ug/L	0.3285	1.467	ug/L	0.3285	22.40%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	2.3	0.398	ug/L	0.9907	0.398	ug/L	0.9907	249.03%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	2.8	0.327	ug/L	0.7159	0.327	ug/L	0.7159	219.03%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	245.9	0.256	ug/L	0.1004	0.256	ug/L	0.1004	39.22%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-4.8	-0.116	ug/L	0.2166	-0.116	ug/L	0.2166	186.87%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	7.0	0.997	ug/L	0.1680	0.997	ug/L	0.1680	16.85%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	79.8	0.323	ug/L	0.0453	0.323	ug/L	0.0453	14.00%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-111.5	-1.107	ug/L	0.0982	-1.107	ug/L	0.0982	8.87%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/05/12	12/05/12	#6010B-121205A-AY72370
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/28/12	11/28/12	#6010B-121128B-AY72102

Metals SC-Blank-REG MDLs
Printed: 12/07/12 8:36:51 AM

Sequence No.: 34
Sample ID: 121128B-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 42
Date Collected: 11/28/12 6:41:25 PM
Data Type: Reprocessed on 11/29/12 2:04:35 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121128B-3050-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-38.4	-0.345	ug/L	0.9396	-0.014	mg/kg	0.0376	272.39%
Al 308.215	-19.7	-13.80	ug/L	0.805	-0.552	mg/kg	0.0322	5.83%
As 188.979	4.6	1.109	ug/L	1.0698	0.044	mg/kg	0.0428	96.49%
B	26.2	8.911	ug/L	1.0631	0.356	mg/kg	0.0425	11.93%
Ba 233.527	20.1	0.138	ug/L	0.0377	0.006	mg/kg	0.0015	27.28%
Be 313.107	-270.7	-0.051	ug/L	0.0109	-0.002	mg/kg	0.0004	21.31%
Ca 315.887	200.6	19.86	ug/L	2.001	0.794	mg/kg	0.0800	10.08%
Cd 214.440	145.0	0.472	ug/L	0.0516	0.019	mg/kg	0.0021	10.93%
Co 228.616	25.9	0.447	ug/L	0.1848	0.018	mg/kg	0.0074	41.33%
Cr 267.716	94.5	0.746	ug/L	0.0143	0.030	mg/kg	0.0006	1.92%
Cu 327.393	261.2	2.906	ug/L	0.6563	0.116	mg/kg	0.0263	22.58%
Fe 273.955	-35.5	-1.479	ug/L	0.3589	-0.059	mg/kg	0.0144	24.26%
K 766.490	180.6	100.2	ug/L	58.53	4.010	mg/kg	2.3412	58.38%
Mg 285.213	28.8	1.823	ug/L	1.0739	0.073	mg/kg	0.0430	58.91%
Mn 257.610	27.7	0.636	ug/L	0.1116	0.025	mg/kg	0.0045	17.54%
Mo 202.031	89.0	2.289	ug/L	0.1568	0.092	mg/kg	0.0063	6.85%
Na 589.592	4847.6	459.5	ug/L	49.53	18.38	mg/kg	1.981	10.78%
Ni 231.604	-134.5	-2.434	ug/L	0.4264	-0.097	mg/kg	0.0171	17.52%
P 213.617	131.8	23.87	ug/L	0.591	0.955	mg/kg	0.0236	2.48%
Pb 220.353	-52.7	-4.018	ug/L	0.8476	-0.161	mg/kg	0.0339	21.10%
Sb 206.836	1.6	0.314	ug/L	1.3523	0.013	mg/kg	0.0541	431.32%
Se 196.026	6.7	1.605	ug/L	1.2322	0.064	mg/kg	0.0493	76.80%
Sn 189.927	-11.0	-1.641	ug/L	0.4492	-0.066	mg/kg	0.0180	27.37%
Sr 421.552	134.4	0.160	ug/L	0.1449	0.006	mg/kg	0.0058	90.79%
Ti 337.279	21.4	0.603	ug/L	0.1323	0.024	mg/kg	0.0053	21.93%
Tl 190.801	-6.2	-1.067	ug/L	0.5298	-0.043	mg/kg	0.0212	49.66%
V 292.402	-184.2	-0.831	ug/L	0.3309	-0.033	mg/kg	0.0132	39.81%
Zn 206.200	-21.2	-0.267	ug/L	0.0777	-0.011	mg/kg	0.0031	29.09%

Sequence No.: 59
Sample ID: 121205A-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 134
Date Collected: 12/05/12 2:12:11 PM
Data Type: Reprocessed on 12/06/12 10:13:20 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121205A-3050-BLK

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-72.2	-0.556	ug/L	0.5072	-0.022	mg/kg	0.0203	91.25%
Al 308.215	12.2	7.256	ug/L	3.5931	0.290	mg/kg	0.1437	49.52%
As 188.979	4.6	0.822	ug/L	1.2092	0.033	mg/kg	0.0484	147.14%
B	27.8	6.798	ug/L	2.9508	0.272	mg/kg	0.1180	43.41%
Ba 233.527	34.0	0.196	ug/L	0.0731	0.008	mg/kg	0.0029	37.27%
Be 313.107	-458.6	-0.069	ug/L	0.0119	-0.003	mg/kg	0.0005	17.37%
Ca 315.887	496.9	40.15	ug/L	0.953	1.606	mg/kg	0.0381	2.37%
Cd 214.440	113.4	0.284	ug/L	0.0570	0.011	mg/kg	0.0023	20.11%
Co 228.616	1.4	0.023	ug/L	0.3534	0.001	mg/kg	0.0141	>999.9%
Cr 267.716	99.2	0.647	ug/L	0.1586	0.026	mg/kg	0.0063	24.51%
Cu 327.393	178.0	1.408	ug/L	1.0689	0.056	mg/kg	0.0428	75.91%
Fe 273.955	10.5	0.387	ug/L	0.8541	0.015	mg/kg	0.0342	220.67%
K 766.490	78.0	36.23	ug/L	57.886	1.449	mg/kg	2.3154	159.77%
Mg 285.213	42.8	2.219	ug/L	0.6536	0.089	mg/kg	0.0261	29.45%
Mn 257.610	21.1	0.395	ug/L	0.1938	0.016	mg/kg	0.0078	49.09%
Mo 202.031	67.0	1.461	ug/L	0.2579	0.058	mg/kg	0.0103	17.65%
Na 589.592	231.4	18.14	ug/L	1.451	0.725	mg/kg	0.0580	8.00%
Ni 231.604	-91.7	-1.318	ug/L	0.1020	-0.053	mg/kg	0.0041	7.74%
P 213.617	84.5	11.06	ug/L	1.107	0.442	mg/kg	0.0443	10.01%
Pb 220.353	-28.2	-1.718	ug/L	0.1411	-0.069	mg/kg	0.0056	8.21%
Sb 206.836	-2.8	-0.427	ug/L	0.7139	-0.017	mg/kg	0.0286	167.33%
Se 196.026	3.4	0.578	ug/L	2.7728	0.023	mg/kg	0.1109	479.50%
Sn 189.927	-5.5	-0.644	ug/L	0.3251	-0.026	mg/kg	0.0130	50.51%
Sr 421.552	260.2	0.271	ug/L	0.1835	0.011	mg/kg	0.0073	67.69%
Ti 337.279	1.5	0.036	ug/L	0.5071	0.001	mg/kg	0.0203	>999.9%
Tl 190.801	-4.2	-0.594	ug/L	0.6477	-0.024	mg/kg	0.0259	108.95%
V 292.402	-33.0	-0.105	ug/L	0.1573	-0.004	mg/kg	0.0063	149.42%
Zn 206.200	106.3	1.061	ug/L	0.1474	0.042	mg/kg	0.0059	13.89%

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	11.1	111	80-120	11/28/12	11/28/12	#6010B-121128B-AY72102

Comments: _____

Sequence No.: 35
Sample ID: 121128B-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 43
Date Collected: 11/28/12 6:45:46 PM
Data Type: Reprocessed on 11/29/12 2:04:36 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121128B-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	11757.7	105.6	ug/L	3.20	4.224	mg/kg	0.1279	3.03%
Al 308.215	3064.2	2130	ug/L	19.5	85.22	mg/kg	0.778	0.91%
As 188.979	1091.5	265.4	ug/L	1.20	10.62	mg/kg	0.048	0.45%
B	853.3	292.0	ug/L	1.97	11.68	mg/kg	0.079	0.68%
Ba 233.527	39449.4	273.1	ug/L	4.43	10.93	mg/kg	0.177	1.62%
Be 313.107	296215.0	55.95	ug/L	1.311	2.238	mg/kg	0.0524	2.34%
Ca 315.887	282236.9	27990	ug/L	372.7	1120	mg/kg	14.9	1.33%
Cd 214.440	17309.2	56.17	ug/L	0.276	2.247	mg/kg	0.0110	0.49%
Co 228.616	16821.3	287.1	ug/L	0.91	11.48	mg/kg	0.036	0.32%
Cr 267.716	37237.9	294.7	ug/L	4.99	11.79	mg/kg	0.200	1.69%
Cu 327.393	25270.9	281.2	ug/L	7.22	11.25	mg/kg	0.289	2.57%
Fe 273.955	25904.4	1101	ug/L	4.9	44.03	mg/kg	0.195	0.44%
K 766.490	9716.5	5387	ug/L	134.3	215.5	mg/kg	5.37	2.49%
Mg 285.213	422730.7	26870	ug/L	362.0	1075	mg/kg	14.5	1.35%
Mn 257.610	12858.7	293.9	ug/L	1.55	11.76	mg/kg	0.062	0.53%
Mo 202.031	11541.3	297.2	ug/L	0.90	11.89	mg/kg	0.036	0.30%
Na 589.592	291199.1	27600	ug/L	349.1	1104	mg/kg	14.0	1.26%
Ni 231.604	15931.9	287.7	ug/L	1.43	11.51	mg/kg	0.057	0.50%
P 213.617	11964.9	2167	ug/L	8.3	86.67	mg/kg	0.333	0.38%
Pb 220.353	3644.5	277.8	ug/L	0.27	11.11	mg/kg	0.011	0.10%
Sb 206.836	1382.2	265.5	ug/L	1.76	10.62	mg/kg	0.071	0.66%
Se 196.026	1072.6	257.8	ug/L	2.76	10.31	mg/kg	0.110	1.07%
Sn 189.927	1988.6	298.0	ug/L	1.39	11.92	mg/kg	0.056	0.47%
Sr 421.552	232699.5	277.0	ug/L	3.44	11.08	mg/kg	0.138	1.24%
Ti 337.279	10178.4	286.2	ug/L	1.43	11.45	mg/kg	0.057	0.50%
Tl 190.801	1544.4	266.1	ug/L	1.67	10.64	mg/kg	0.067	0.63%
V 292.402	61518.4	296.8	ug/L	5.12	11.87	mg/kg	0.205	1.72%
Zn 206.200	42685.6	568.8	ug/L	9.11	22.75	mg/kg	0.364	1.60%

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.3	103	80-120	12/05/12	12/05/12	#6010B-121205A-AY72370

Comments: _____

Sequence No.: 60
Sample ID: 121205A-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 135
Date Collected: 12/05/12 2:16:36 PM
Data Type: Reprocessed on 12/06/12 10:13:21 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121205A-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	12819.8	98.70	ug/L	2.630	3.948	mg/kg	0.1052	2.67%
Al 308.215	3336.1	2001	ug/L	11.5	80.06	mg/kg	0.459	0.57%
As 188.979	1333.0	239.0	ug/L	1.10	9.560	mg/kg	0.0440	0.46%
B	1020.5	251.6	ug/L	3.90	10.07	mg/kg	0.156	1.55%
Ba 233.527	42056.3	243.7	ug/L	4.04	9.746	mg/kg	0.1617	1.66%
Be 313.107	329721.9	49.32	ug/L	0.827	1.973	mg/kg	0.0331	1.68%
Ca 315.887	315129.0	25470	ug/L	156.6	1019	mg/kg	6.3	0.61%
Cd 214.440	20283.7	50.59	ug/L	0.213	2.024	mg/kg	0.0085	0.42%
Co 228.616	18810.4	257.4	ug/L	1.02	10.30	mg/kg	0.041	0.40%
Cr 267.716	39782.2	259.8	ug/L	3.82	10.39	mg/kg	0.153	1.47%
Cu 327.393	29894.5	236.4	ug/L	2.83	9.458	mg/kg	0.1130	1.19%
Fe 273.955	28097.3	1001	ug/L	13.2	40.04	mg/kg	0.528	1.32%
K 766.490	10385.1	4823	ug/L	75.0	192.9	mg/kg	3.00	1.56%
Mg 285.213	482977.3	25060	ug/L	127.5	1002	mg/kg	5.1	0.51%
Mn 257.610	14090.2	263.0	ug/L	0.77	10.52	mg/kg	0.031	0.29%
Mo 202.031	12170.5	265.6	ug/L	1.18	10.62	mg/kg	0.047	0.45%
Na 589.592	305873.3	24000	ug/L	113.6	959.9	mg/kg	4.54	0.47%
Ni 231.604	18052.7	258.9	ug/L	1.05	10.36	mg/kg	0.042	0.40%
P 213.617	14766.4	1932	ug/L	7.7	77.26	mg/kg	0.310	0.40%
Pb 220.353	4214.2	257.0	ug/L	1.02	10.28	mg/kg	0.041	0.40%
Sb 206.836	1541.6	239.1	ug/L	1.19	9.562	mg/kg	0.0476	0.50%
Se 196.026	1335.3	229.6	ug/L	0.88	9.183	mg/kg	0.0352	0.38%
Sn 189.927	2311.2	269.8	ug/L	1.33	10.79	mg/kg	0.053	0.49%
Sr 421.552	234987.5	244.9	ug/L	1.06	9.795	mg/kg	0.0425	0.43%
Ti 337.279	10888.2	263.1	ug/L	0.94	10.52	mg/kg	0.038	0.36%
Tl 190.801	1731.9	245.7	ug/L	1.42	9.828	mg/kg	0.0567	0.58%
V 292.402	64120.9	262.1	ug/L	3.64	10.48	mg/kg	0.146	1.39%
Zn 206.200	51385.7	512.2	ug/L	8.56	20.49	mg/kg	0.342	1.67%

1%HNO3 / 5%HCl BLK					6010B/6010C ICSA				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
100 mL	HCL	EMD	UN1789-265	10/22/12	1mL	Al	CPI	11J015-30092	05/28/13
20 mL	HNO3	JT BAKER	L10023-266	10/24/12	1mL	Ca	CPI	11J031-29989	05/14/13
Prepared in 2000 ml DI Water					1mL	Mg	CPI	11K178-30093	05/28/13
STD 1 / LDL 6010B/6010C					1mL	Fe	O2SI	1030787-30616	05/17/13
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	Prepared in 50 ml 1%HNO3/5%HCl				
0.5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13	6010B/6010C ICSAB				
Prepared in 50 ml 1%HNO3/5%HCl					1mL	Al	CPI	11J015-30092	05/28/13
STD 3 / HDL 6010B/6010C					1mL	Ca	CPI	11J031-29989	05/14/13
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15	1mL	Mg	CPI	11K178-30093	05/28/13
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15	1mL	Fe	O2SI	1030787-30616	05/17/13
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15	0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 100 ml 1%HNO3 / 5%HCl					Prepared in 50 ml 1%HNO3/5%HCl				
STD 2 / CCV1 6010B/6010C/6010C					6010B/6010C ICV				
AMOUNT	STD	PREP DATE	EXP DATE		0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
25mL	STD 3	Today	1 week		0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
25mL	1%HNO3/5%HCl	Today	1 week		Prepared in 50ml 1%HNO3/5%HCl				
CCV2 6010B/6010C									
AMOUNT	STD	PREP DATE	EXP DATE						
15mL	STD 3	Today	1 week						
25mL	1%HNO3/5%HCl	Today	1 week						

GA 11-28-12

6010B/C

(A)

GA 11-28-12

BC 11/29/12

6020/6020A

(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A

Today's Date 11/29/12
Expires 12/06/12
Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL DI Water
Lot #L12065
20 mL HCL / 2000mL DI Water
Lot #51358
Expires 12/06/12

Internal Standard Mix: Prep 11/29/2012

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1.0% HCL 11/29/12

Standard 3 12/06/12

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	ABS STDS	012512-30926
25 uL	CCV-B	ABS STDS	021312-30928
25 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1.0% HCL 11/29/12

Intermediate-Sb 12/06/12
100 uL of Sb STD (CPI 12A011-30298) in 10 mL of 1% HNO3/1.0% HCL
ICV-Sb 12/06/12
100 uL of Intermediate-Sb in 10 mL of 1% HNO3/1.0% HCL

BC 11/29/12

Standard 2 12/06/12

Amount	STD	
500 uL	Standard 4	11/29/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/29/12

Standard 1 12/06/12

Amount	STD	
50 uL	Standard 4	11/29/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/29/12

ICP-MS ICV 12/06/12

Amount	STD		
50 uL	QCS ICV A	CPI	11C184-30611
50 uL	QCS ICV B	CPI	11C184-30612

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/29/12

ICSA Prep: 12/06/12

1 mL	ICSA	CPI	12I082-31307

Prepared in 5 mL of 1% HNO3/1.0% HCL 11/29/12

ICSAB Prep: 12/06/12

1mL	ICSA	CPI	12I082-31307
0.025mL	INT	O2SI	1032370-30265

Prepared in 5 mL of 1% HNO3/1.0% HCL 11/29/12

ICP-LDR 12/06/12

Amount	STD		
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 10 mL of 1% HNO3/1.0% HCL 11/29/12

BC 11/29/12

BC 11/29/12

Internal Standard Concentration

Amt	STD	Element	Vendor	Lot#	Final Conc. in Std	Expires
500uL	1000 ug/mL	Li	CPI	1035052-30567	5000 ug/L	09/28/13
500uL	1000 ug/mL	In	CPI	12D087-31275	5000 ug/L	02/23/14
500uL	1000 ug/mL	Ho	CPI	11C008-31273	5000 ug/L	02/23/14
500uL	1000 ug/mL	Tb	CPI	12F203-31274	5000 ug/L	02/23/14
500uL	1000 ug/mL	Sc	o2si	1039029-31295	5000 ug/L	02/25/14
500uL	1000 ug/mL	Ge	Environmental Express	1116011-29381	5000 ug/L	02/08/13

Prep:	11/29/12	BC	Prep in -	1%HNO3/1.0%HCL:	Lot #L12065/51358	in 100mL
Expires:	12/29/12					

LO 11/29/12

Hg working Stds

LO 11/29/12

Hg WORKING STANDARD 7470A/7471/245.1

1ml X 10ug/ml Hg STOCK STD. (11/13/12LO)/200ml 1% HNO3 Lot#L12065
1ml X 10ug/ml Hg STOCK ICV (11/13/12LO)/200ml 1% HNO3 Lot#L12065
Final concentration is 50 ug/L. Expires.....11/29/12.....

Metals Standards Log Book # 36

050

BC 12/4/12

6020/6020A

(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A

Today's Date 12/04/12

Expires 12/11/12

Prep 1% HNO3/1.0%HCL

20 mL HNO3 / 2000 mL Di Water
Lot #L12065

20 mL HCL / 2000mL Di Water
Lot #51358

Expires 12/11/12

Internal Standard Mix: Prep 11/29/2012

Standard 4 12/11/12

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1 0% HCL 12/04/12

Standard 3 12/11/12

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	ABS STDS	012512-30926
25 uL	CCV-B	ABS STDS	021312-30928
25 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1 0% HCL 12/04/12

Intermediate-Sb 12/11/12
100 uL of Sb STD (CPI 12A011-30298) in 10 mL of 1% HNO3/1 0% HCL

ICV-Sb 12/11/12
100 uL of Intermediate-Sb in 10 mL of 1% HNO3/1 0% HCL

BC 12/4/12

Standard 2 12/11/12

Amount	STD	
500 uL	Standard 4	12/04/12

Prepared in 50 mL of 1% HNO3/1 0% HCL 12/04/12

Standard 1 12/11/12

Amount	STD	
50 uL	Standard 4	12/04/12

Prepared in 50 mL of 1% HNO3/1 0% HCL 12/04/12

ICP-MS ICV 12/11/12

Amount	STD		
50 uL	QCS ICV A	CPI	11C184-30611
50 uL	QCS ICV B	CPI	11C184-30612

Prepared in 50 mL of 1% HNO3/1 0% HCL 12/04/12

ICSA Prep: 12/11/12

1 mL	ICSA	CPI	12I082-31307

Prepared in 5 mL of 1% HNO3/1 0% HCL 12/04/12

ICSAB Prep: 12/11/12

1mL	ICSA	CPI	12I082-31307
0 025mL	INT	O2SI	1032370-30265

Prepared in 5 mL of 1% HNO3/1 0% HCL 12/04/12

ICP-LDR 12/11/12

Amount	STD		
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 10 mL of 1% HNO3/1 0% HCL 12/04/12

~~LO 12/3/12~~ (1) LO 12/4/12

LO ~~12/03/12~~ 12/04/12

LO (1)

Hg WORKING STANDARD 7470A/7471/245.1

1ml X 10ug/ml Hg STOCK STD. (12/03/12LO)/200ml 1% HNO3 Lot#L12065
1ml X 10ug/ml Hg STOCK ICV (12/03/12LO)/200ml 1% HNO3 Lot#L12065
Final concentration is 50 ug/L. Expires daily

LO 12/4/12

EA 6010B-C

(A)

12-5-12

1%HNO3 / 5%HCl BLK				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	EMD	UN1789-265	10/22/12
20 mL	HNO3	JT BAKER	L10023-266	10/24/12
Prepared in 2000 ml DI Water				

STD 1 / LDL 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0 5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13
Prepared in 50 ml 1%HNO3/5%HCl				

STD 3 / HDL 6010B/6010C				
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/13
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/13
Prepared in 100 ml 1%HNO3 / 5%HCl				

STD 2 / CCV1 6010B/6010C/6010C			
AMOUNT	STD	PREP DATE	EXP DATE
25mL	STD 3	Today	1 week
25mL	1%HNO3/5%HCl	Today	1 week

CCV2 6010B/6010C			
AMOUNT	STD	PREP DATE	EXP DATE
15mL	STD 3	Today	1 week
25mL	1%HNO3/5%HCl	Today	1 week

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 1%HNO3/5%HCl				

6010B/6010C ICSAB				
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 50 ml 1%HNO3/5%HCl				

6010B/6010C ICV				
0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 1%HNO3/5%HCl				

EA 12.5.12

~~LO 12/5/12~~

LO 12/05/12

Hg WORKING STANDARDS 7470A/7471/245.1			
Hg WORKING STD	1ml 10ug/ml Hg STOCK STD. 12/03/12 and 2mL HNO3 JT Baker LOT#L12065 to final vol 200mL with milipore water	exp: 12/31/12	final conc: 50ug/L expires daily
Hg WORKING ICV	1ml 10ug/ml Hg STOCK ICV 12/03/12 and 2mL HNO3 JT Baker LOT#L12065 to final vol 200mL with milipore water	exp: 12/31/12	final conc: 50ug/L expires daily

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121128B **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 1039704-31514		
Spiked ID 2	LCSW LOT# 1039705-31515		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	11/28/12 9:35:00 AM
Witnessed By	BC	Date:	11/28/12 9:35:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	11/28/12 14:30

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121128B Blk				2.50g	100mL	11/28/12 9:35	equip: Modblock4
2	121128B LCS		1mL	1+2	2.50g	100mL	11/28/12 9:35	equip: Modblock4
3	AY71798	AY71798M01			2.44g	100mL	11/28/12 9:35	equip: Modblock4
4	AY71801	AY71801M01			2.50g	100mL	11/28/12 9:35	equip: Modblock4
5	AY71804	AY71804M01			2.50g	100mL	11/28/12 9:35	equip: Modblock4
6	AY71931	AY71931M01			2.59g	100mL	11/28/12 9:35	equip: Modblock4
7	AY71934	AY71934M01			2.52g	100mL	11/28/12 9:35	equip: Modblock4
8	AY72096	AY72096M01			2.52g	100mL	11/28/12 9:35	equip: Modblock4
9	AY72099	AY72099M01			2.53g	100mL	11/28/12 9:35	equip: Modblock4
10	AY72102	AY72102M01			2.46g	100mL	11/28/12 9:35	equip: Modblock4
11	AY72102 MS	AY72102M01	2mL	1+2	2.46g	100mL	11/28/12 9:35	equip: Modblock4
12	AY72102 MSD	AY72102M01	2mL	1+2	2.46g	100mL	11/28/12 9:35	equip: Modblock4

Solvent and Lot#
1:1 HNO3 11-9-12
HNO3 J.T.B. L10023 0279
H2O2 EMD K20J00 0254
HCL EMD Lot# 4112030 0277

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	EA
Date	11-28-12
Time	1430
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	11/28/12 10:06:32 AM

Reviewed By: EA **Date:** 11-28-12

_M3050

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121205A **Units** mL

Spikes	
Spiked ID 1	LCSW LOT# 1039704-31514
Spiked ID 2	LCSW LOT# 1039705-31515
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 12/05/12 8:10:00 AM
Witnessed By	BC Date: 12/05/12 8:10:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	12/05/12 14:00

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121205A Blk				2.50g	100mL	12/05/12 8:10	equip: Modblock4
2	121205A LCS		1mL	1+2	2.50g	100mL	12/05/12 8:10	equip: Modblock4
3	AY71797	AY71797M01			1.93g	100mL	12/05/12 8:10	equip: Modblock4
4	AY71800	AY71800M01			1.62g	100mL	12/05/12 8:10	equip: Modblock4
5	AY71803	AY71803M01			1.42g	100mL	12/05/12 8:10	equip: Modblock4
6	AY71930	AY71930M01			2.54g	100mL	12/05/12 8:10	equip: Modblock4
7	AY71933	AY71933M01			2.18g	100mL	12/05/12 8:10	equip: Modblock4
8	AY72186	AY72186M01			2.56g	100mL	12/05/12 8:10	equip: Modblock4
9	AY72187	AY72187M01			2.54g	100mL	12/05/12 8:10	equip: Modblock4
10	AY72189	AY72189M01			2.57g	100mL	12/05/12 8:10	equip: Modblock4
11	AY72190	AY72190M01			2.44g	100mL	12/05/12 8:10	equip: Modblock4
12	AY72369	AY72369M01			2.45g	100mL	12/05/12 8:10	equip: Modblock4
13	AY72370	AY72370M01			2.50g	100mL	12/05/12 8:10	equip: Modblock4
14	AY72370 MS	AY72370M01	2mL	1+2	2.50g	100mL	12/05/12 8:10	equip: Modblock4
15	AY72370 MSD	AY72370M01	2mL	1+2	2.50g	100mL	12/05/12 8:10	equip: Modblock4

Solvent and Lot#
:1 HNO3 11-9-12
HNO3 J.T.B. L10023 0280
H2O2 J.T.B K20J00 0254
HCL EMD Lot# 4112030 0278

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	EA
Date	12-5-12
Time	14:00
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	12/05/12 10:48:24 AM

Reviewed By: EA **Date:** 12-5-12

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	28 Nov 2012	15:17	CalBlk 121128EA I:PB O:EA		121128A6010	1.
2	28 Nov 2012	15:21	STD 1 121128EA I:PB O:EA		121128A6010	1.
3	28 Nov 2012	15:25	STD 2 121128EA I:PB O:EA		121128A6010	1.
4	28 Nov 2012	15:29	STD 3 121128EA I:PB O:EA		121128A6010	1.
5	28 Nov 2012	15:38	ICV 121128EA I:PB O:EA		121128A6010	1.
6	28 Nov 2012	15:42	ICB 121128EA I:PB O:EA		121128A6010	1.
8	28 Nov 2012	15:51	ICSA 121128EA I:PB O:EA		121128A6010	1.
9	28 Nov 2012	15:56	ICSAB 121128EA I:PB O:EA		121128A6010	1.
10	28 Nov 2012	16:18	CCV1 121128EA I:PB O:EA		121128A6010	1.
11	28 Nov 2012	16:22	CCB 121128EA I:PB O:EA		121128A6010	1.
30	28 Nov 2012	18:18	CCV1 121128EA I:PB O:EA		121128A6010	1.
31	28 Nov 2012	18:26	CCB 121128EA I:PB O:EA		121128A6010	1.
34	28 Nov 2012	18:41	121128B-3050-BLK		121128A6010	1.
35	28 Nov 2012	18:45	121128B-3050-LCS		121128A6010	1.
39	28 Nov 2012	19:07	AY71931M01		121128A6010	1.
40	28 Nov 2012	19:12	AY71934M01		121128A6010	1.
42	28 Nov 2012	19:25	CCV2 121128EA I:PB O:EA		121128A6010	1.
43	28 Nov 2012	19:32	CCB 121128EA I:PB O:EA		121128A6010	1.

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	05 Dec 2012	09:41	CalBlk 121205EA I:PB O:EA		121205A6010	1.
2	05 Dec 2012	09:46	STD 1 121205EA I:PB O:EA		121205A6010	1.
3	05 Dec 2012	09:50	STD 2 121205EA I:PB O:EA		121205A6010	1.
4	05 Dec 2012	09:53	STD 3 121205EA I:PB O:EA		121205A6010	1.
5	05 Dec 2012	09:57	ICV 121205EA I:PB O:EA		121205A6010	1.
6	05 Dec 2012	10:00	ICB 121205EA I:PB O:EA		121205A6010	1.
8	05 Dec 2012	10:13	ICSA 121205EA I:PB O:EA		121205A6010	1.
9	05 Dec 2012	10:18	ICSAB 121205EA I:PB O:EA		121205A6010	1.
10	05 Dec 2012	10:22	CCV1 121205EA I:PB O:EA		121205A6010	1.
11	05 Dec 2012	10:26	CCB 121205EA I:PB O:EA		121205A6010	1.
57	05 Dec 2012	14:03	CCV1 121205EA I:PB O:EA		121205A6010	1.
58	05 Dec 2012	14:07	CCB 121205EA I:PB O:EA		121205A6010	1.
59	05 Dec 2012	14:12	121205A-3050-BLK		121205A6010	1.
60	05 Dec 2012	14:16	121205A-3050-LCS		121205A6010	1.
65	05 Dec 2012	14:44	AY71930M01		121205A6010	1.
66	05 Dec 2012	14:50	AY71933M01		121205A6010	1.
68	05 Dec 2012	15:23	CCV2 121205EA I:PB O:EA		121205A6010	1.
69	05 Dec 2012	15:29	CCB 121205EA I:PB O:EA		121205A6010	1.

Wetlab Results

ARF: 69307

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
APPL ID: AY71931	-Client Sample ID: GT12025L		-Sample Collection Date: 11/14/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	72.8	2.0	%	12/04/12	12/04/12
APPL ID: AY71934	-Client Sample ID: GT12026L		-Sample Collection Date: 11/14/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	71.4	2.0	%	12/04/12	12/04/12

Printed: 12/04/12 4:52:31 PM

% Moisture

Batch: QCG 121204-M004568

Method: CLP 4.0

Date: 12/04/12 10:39

Sample	Container	Pan (g)	Pan+Wet (g)	Pan+Dry 1 (g)	Pan+Dry 2 (g)	Moisture (%)	Comments
AY72102	m01	0.8378 12/04/12 10:39	8.3387 12/04/12 10:40	3.1364 12/04/12 14:48	3.1281 12/04/12 16:15	69.466	AY72102M01
AY72099	m01	0.8340 12/04/12 10:38	8.0424 12/04/12 10:38	3.4183 12/04/12 14:48	3.4062 12/04/12 16:14	64.317	AY72099M01
AY72096	m01	0.8355 12/04/12 10:35	7.2373 12/04/12 10:38	2.4497 12/04/12 14:48	2.4461 12/04/12 16:09	74.841	AY72096M01
AY71934	m01	0.8335 12/04/12 10:34	9.6022 12/04/12 10:35	3.3541 12/04/12 14:47	3.3431 12/04/12 16:12	71.380	AY71934M01
AY71931	m01	0.8383 12/04/12 10:33	7.7219 12/04/12 10:33	2.7207 12/04/12 14:47	2.7139 12/04/12 16:08	72.753	AY71931M01
AY71804	m01	0.8389 12/04/12 10:32	7.9734 12/04/12 10:32	2.5520 12/04/12 14:47	2.5407 12/04/12 16:11	76.147	AY71804M01
AY71801	m01	0.8411 12/04/12 10:31	7.8151 12/04/12 10:31	2.3310 12/04/12 14:47	2.3243 12/04/12 16:11	78.732	AY71801M01
AY71798D	m01	0.8345 12/04/12 10:29	6.9356 12/04/12 10:30	2.9230 12/04/12 14:47	2.9124 12/04/12 16:11	65.942	AY71798M01
AY71798	m01	0.8351 12/04/12 08:53	7.2537 12/04/12 10:29	2.9495 12/04/12 14:47	2.9497 12/04/12 16:10	67.055	AY71798M01

Date/Time InOven@104°C	Date/Time OutOven@104°C	Date/Time InOven@104°C	Date/Time OutOven@104°C
12/04/12 10:41:00 AM	12/04/12 2:47:00 PM	12/04/12 2:49:00 PM	12/04/12 4:08:00 PM

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
11/29/12	BB	Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	yes
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0004 g	19.9800	20.0200	
		Mettler AT200	50g	50.0005 g	49.9500	50.0500	
		Mettler AT200	100g	100.0012 g	99.9000	100.1000	
		Mettler AT200	150g	150.0016 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.01 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
11/30/12	BB						yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0003 g	19.9800	20.0200	
		Mettler AT200	50g	50.0005 g	49.9500	50.0500	
		Mettler AT200	100g	100.0010 g	99.9000	100.1000	
		Mettler AT200	150g	150.0015 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
12/3/12	AP	Mettler AT200	0.5g	0.5000g	0.4995	0.5005	yes
		Mettler AT200	1g	1.0001 g	0.9990	1.0010	
		Mettler AT200	20g	20.0000g	19.9800	20.0200	
		Mettler AT200	50g	50.0005g	49.9500	50.0500	
		Mettler AT200	100g	100.0009g	99.9000	100.1000	
		Mettler AT200	150g	150.0014g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	999.99 g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.99 g	1960.00	2040.00	
12/4/12	BB						yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0000 g	19.9800	20.0200	
		Mettler AT200	50g	50.0001 g	49.9500	50.0500	
		Mettler AT200	100g	100.0004 g	99.9000	100.1000	
		Mettler AT200	150g	150.0005 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	999.99 g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.96 g	1960.00	2040.00	

Laboratory Report

Parsons

Project #: 748350.02000 CSSA

ARF: 69340

Samples collected: November 17, 2012

APPL, Inc.

Data Validatable Package

for

Project #: 748350.02000 CSSA

ARF 69340

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LABORATORY NAME: *APPL, Inc.*

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CASE NARRATIVE

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

EPA Method 6010B
Metals
Case Narrative

ARF: 69340

Project: 748350.02000 CSSA

California State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Texas Certificate Number: T104704242-10-3

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

Six miscellaneous samples were received November 20, 2012, at 3.0°C. The samples were assigned Analytical Request Form (ARF) number 69340. The sample numbers and requested analyses were compared to the chain of custody. No exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
GT12027B	AY72095	MISC	11/17/12	11/20/12
GT12027L	AY72096	MISC	11/17/12	11/20/12
GT12028B	AY72098	MISC	11/17/12	11/20/12
GT12028L	AY72099	MISC	11/17/12	11/20/12
GT12029B	AY72101	MISC	11/17/12	11/20/12
GT12029L	AY72102	MISC	11/17/12	11/20/12

Percent moisture was determined using CLP 4.0 for the liver samples. Percent moisture was not determined on the bone samples.

Digestion Information:

The liver samples were frozen and homogenized according to APPL's SOP PRE003. The bone samples were dried in the oven at 104°C; once dried, a drill was used to "shave" the bone and obtain a representative sample. For all bone samples, less than 2.5grams was digested because of the difficulty in shaving the bones. An aliquot of the homogenized liver sample and bone was digested according to EPA method 3050B. Since the laboratory was unable to obtain a similar clean matrix, the blank and the LCS were digested according to APPL's SOP PRE3050B. No other exception was encountered. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed according to EPA method 6010B using a Perkin Elmer Optima 5300DV ICP.

Calibrations:

Calibrations were performed according to the method for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard. In the CCV on 11/28/12 at 19:25 and 20:00, lead recovered above the 110% upper control limit at 112% and 114%, respectively. Lead was not detected in the bracketed samples. All other calibration acceptance criteria were met.

Blanks:

No target metal was detected above the reporting limit (RL) in the method blanks.

Spikes:

Laboratory Control Spikes (LCS), post-digestion spike (PDS), and dilution test were used for quality assurance. All LCS acceptance criteria were met.

For the 121128B analytical batch, sample GT12029L was selected as the QC sample. The dilution test was not applicable. The PDS met acceptance criteria.

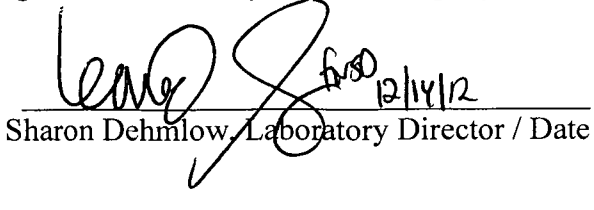
For the 121210A analytical batch, sample GT12032B (APPL SDG #69412) was selected as the QC sample. The dilution test was not applicable. The PDS recovered below the 75% lower control limit at 72.0%. All associated samples are flagged with a "J", in accordance with the CSSA QAPP guidelines.

Summary:

No other analytical exception is noted. The data generated are acceptable.

CERTIFICATION

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. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.



12/14/12

Sharon Dehmlow, Laboratory Director / Date

APPL Inc.
Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer.
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other – (See case narrative)
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel
U	Not detected
Y	Percent difference between primary and confirmation column > 40%

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 69340

Client: **Parsons**
Address: **8000 Centre Park Drive Ste 200**
Austin, TX 78754
Attn: **Tammy Chang**
Phone: **512-719-6092** Fax: **512-719-6099**
Job: **748350.02000 CSSA**
PO #: **748350.30002 (prime *G012)**
Chain of Custody (Y/N): **Y** # **111912APPFA**
RAD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **STD**

Received by: **WLA**
Date Received: **11/20/12** Time: **16:30**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-6**
Chest Temp(s): **3.0°C**
Color: **A_FREZ**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Diane Anderson**
QC Report Type: **DVP4/AFCEE/ERPIMS/TX**
Due Date: **12/11/12**

Comments:

pdf ARF to Tammy & Pam; send 1 DVP3 HC & send DVP3 & DVP4 on CD to Tammy.

Case Narrative. CSSA QAPP. Only report MS/MSD when requested.
Report results on APPL forms: U to the RL-no J values; report results in wet weight (without moisture
Wait to do moisture analysis after metals analysis.
EDD: ERPIMS 4 Lab PC4 checked TXF to Pamela.Ford@parsons.com

Sample Distribution:
Metals: 6-$6010BDODS(Pb)
Wetlab: 3-MOIST
Other: 6-_M3050

Charges:

Invoice To:
PARSONS GOV'T SERV.
8000 Centre Park Drive Ste 200
Austin, TX 78754-5140
Attn: Ellen Felfe

	Client ID	APPL ID	Sampled	Analyses Requested
1.	GT12027B	AY72095M	11/17/12 08:00	$6010BDODS(Pb)
2.	GT12027L	AY72096M	11/17/12 08:00	$6010BDODS(Pb), MOIST
3.	GT12028B	AY72098M	11/17/12 09:00	$6010BDODS(Pb)
4.	GT12028L	AY72099M	11/17/12 09:00	$6010BDODS(Pb), MOIST
5.	GT12029B	AY72101M	11/17/12 12:00	$6010BDODS(Pb)
6.	GT12029L	AY72102M	11/17/12 12:00	$6010BDODS(Pb), MOIST

APPL Sample Receipt Form

ARF# **69340**

Sample	Container Type	Count	pH
AY72095	35 Plastic Bag	1	NA
AY72096	35 Plastic Bag	1	NA
AY72098	35 Plastic Bag	1	NA
AY72099	35 Plastic Bag	1	NA
AY72101	35 Plastic Bag	1	NA
AY72102	35 Plastic Bag	1	NA

Sample	Container Type	Count	pH

3.0°C

69340

Camp Stanley Storage Activity Chain Of Custody

COC ID:	111912APPFA	Relinquish_Date:	11/19/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF
Job Number:	748350.02000	Relinquish_Time:	4:30 PM	Carrier:	FedEx
Creation Date:	11/19/2012	Collection Team:	SE	Airbill Carrier:	876436444101
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): Sam Elliott

LOCID:	GT12027B	LOGDATE:	11/17/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	8:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT12027B_111712_N0800					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12027L	LOGDATE:	11/17/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	8:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT12027L_111712_N0800					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12027M	LOGDATE:	11/17/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	8:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT12027M_111712_N0800					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12028B	LOGDATE:	11/17/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	9:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT12028B_111712_N0900					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12028L	LOGDATE:	11/17/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	9:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT12028L_111712_N0900					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12028M	LOGDATE:	11/17/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	9:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT12028M_111712_N0900					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12029B	LOGDATE:	11/17/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	12:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT12029B_111712_N1200					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12029L	LOGDATE:	11/17/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	12:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT12029L_111712_N1200					EBLOT:	Containers:	1
Remarks:										

Relinquished by: _____ Date 11/19/12 Time 1630
Recieved by: _____ Date 11/20/12 Time 1620

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date _____ Time _____

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date _____ Time _____

Camp Stanley Storage Activity Chain Of Custody

COC ID:	111912APPFA	Relinquish_Date:	11/19/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF
Job Number:	748350.02000	Relinquish_Time:	4:30 PM	Carrier:	FedEx
Creation Date:	11/19/2012	Collection Team:	SE	Airbill Carrier:	876436444101
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): Sam Elliott

S. Elliott

LOCID: **GT12029M** LOGDATE: **11/17/2012** MATRIX: **TA** TBLOT:

SBD: **0** LOGTIME: **12:00** SACODE: **N** SMCODE: **G** ABLOT:

SED: **0** FLDSAMPID **GT12029M_111712_N1200** EBLOT: Containers: 1

Remarks:

Analysis Required:

SW6010B LEAD

Relinquished by: S. Elliott Date 11/19/12 Time 1630

Recieved by: _____ Date _____ Time _____

Relinquished by: _____ Date _____ Time _____

Recieved by: _____ Date 11/20/12 Time 1620

Relinquished by: _____ Date _____ Time _____

Recieved by: _____ Date _____ Time _____

YL 11/20/12

COOLER RECEIPT FORM

1) Project: 748350.02000 ~~CST~~ CSSA Date Received: 11/20/12

2) Coolers: Number of Coolers: 1

3) YES NO Were coolers and samples screened for radioactivity?

4) YES NO Were custody seals on outside of cooler? How many? 1 Date on seal? 11/19/12

5) Name on seal? See Label

6) YES NO NA Were custody seals unbroken and intact at the time of arrival?

7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex

8) Shipping slip numbers: 1) 8764 3644 4101 2) _____ 3) _____

9) YES NO NA Was the shipping slip scanned into the database?

10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Ziploc in wet ice

12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?

13) YES NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: A39267 Correction factor: 0

15) Cooler temp(s): 1) 3.0°C 2) _____ 3) _____ 4) _____ 5) _____ 6) _____ 7) _____ 8) _____

Chain of custody:

16) YES NO Was a chain of custody received?

17) YES NO Were the custody papers signed in the appropriate places?

18) YES NO Was the project identifiable from custody papers?

19) YES NO Did the chain of custody include date and time of sampling?

20) YES NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) YES NO Were container labels in good condition?

22) YES NO Was the client ID on the label?

23) YES NO Was the date of sampling on the label?

24) YES NO Was the time of sampling on the label?

25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?

27) YES NO Did all containers arrive unbroken?

28) YES NO Was there any leakage from samples?

29) YES NO Were any of the lids cracked or broken?

30) YES NO Were correct containers used for the tests indicated?

31) YES NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea: _____

Smaller than a pea: _____

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO NA Unpreserved VOA Vials received? _____

38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF? _____

Lab notified if pH was not adequate: _____

Deficiencies: _____

Signature of personnel receiving samples: _____ Second reviewer: _____

Signature of project manager notified: _____ Date and Time of notification: _____

Name of client notified: _____ Date and Time of notification: _____

Information given to client: _____

_____ by whom (Initials): _____

CUSTODY SEAL

APPL, Inc.

(559) 275-2175

Initials _____

Date 11/19/12

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/10/12	12/11/12	#6010B-121210A-AY72368
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/28/12	11/28/12	#6010B-121128B-AY72102

Metals SC-Blank-REG MDLs
Printed: 12/13/12 3:04:27 PM

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	9.4	94.0	80-120	12/10/12	12/11/12	#6010B-121210A-AY72368

Comments: _____

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	11.1	111	80-120	11/28/12	11/28/12	#6010B-121128B-AY72102

Comments: _____

METALS
Sample Data

APPL, INC.

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12027B
Sample Collection Date: 11/17/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69340
APPL ID: AY72095

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U J	0.50	mg/kg	1	12/10/12	12/11/12

J = Estimated value.

Printed: 12/13/12 4:39:23 PM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 116
Sample ID: AY72095M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.02 g
Dilution:

Autosampler Location: 50
Date Collected: 12/11/12 7:28:14 PM
Data Type: Reprocessed on 12/12/12 9:41:28 AM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72095M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	634.6	4.979	ug/L	0.1921	0.246	mg/kg	0.0095	3.86%
Al 308.215	22.6	-51.12	ug/L	3.882	-2.531	mg/kg	0.1922	7.59%
As 188.979	79.0	15.10	ug/L	2.763	0.747	mg/kg	0.1368	18.30%
B	217.0	-18.42	ug/L	1.847	-0.912	mg/kg	0.0914	10.03%
Ba 233.527	130237.4	801.6	ug/L	1.56	39.68	mg/kg	0.077	0.19%
Be 313.107	-4980.2	-0.798	ug/L	0.0287	-0.039	mg/kg	0.0014	3.60%
Ca 315.887	33537125.5	2809000	ug/L	4060.9	139100	mg/kg	201.0	0.14%
Cd 214.440	0.7	-5.952	ug/L	0.0581	-0.295	mg/kg	0.0029	0.98%
Co 228.616	231.0	-5.792	ug/L	0.4136	-0.287	mg/kg	0.0205	7.14%
Cr 267.716	8732.5	55.10	ug/L	0.506	2.728	mg/kg	0.0250	0.92%
Cu 327.393	-2963.8	-32.50	ug/L	0.938	-1.609	mg/kg	0.0464	2.89%
Fe 273.955	3971.0	85.80	ug/L	0.565	4.248	mg/kg	0.0280	0.66%
K 766.490	14751.5	4704	ug/L	46.1	232.8	mg/kg	2.28	0.98%
Mg 285.213	1204509.1	61420	ug/L	682.1	3040	mg/kg	33.8	1.11%
Mn 257.610	640.9	-2.240	ug/L	0.0472	-0.111	mg/kg	0.0023	2.11%
Mo 202.031	-99.8	-16.50	ug/L	0.234	-0.817	mg/kg	0.0116	1.42%
Na 589.592	1178218.0	88890	ug/L	1003.4	4400	mg/kg	49.7	1.13%
Ni 231.604	710.9	10.47	ug/L	0.176	0.518	mg/kg	0.0087	1.68%
P 213.617	8250487.4	1188000	ug/L	10697.0	58800	mg/kg	529.6	0.90%
Pb 220.353	-70.1	-4.824	ug/L	0.3499	-0.239	mg/kg	0.0173	7.25%
Sb 206.836	3.6	0.581	ug/L	0.6783	0.029	mg/kg	0.0336	116.71%
Se 196.026	15.1	-39.56	ug/L	1.450	-1.959	mg/kg	0.0718	3.67%
Sn 189.927	56.3	7.935	ug/L	1.7650	0.393	mg/kg	0.0874	22.24%
Sr 421.552	706853.2	683.5	ug/L	8.43	33.83	mg/kg	0.417	1.23%
Ti 337.279	936.6	14.94	ug/L	0.101	0.740	mg/kg	0.0050	0.67%
Tl 190.801	-15.4	-2.315	ug/L	0.8989	-0.115	mg/kg	0.0445	38.83%
V 292.402	28.1	-1.408	ug/L	0.0341	-0.070	mg/kg	0.0017	2.42%
Zn 206.200	95961.2	1109	ug/L	4.4	54.92	mg/kg	0.217	0.40%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12027L
Sample Collection Date: 11/17/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69340
APPL ID: AY72096

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/28/12	11/28/12

Printed: 12/13/12 4:39:23 PM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 41
Sample ID: AY72096M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.52 g
Dilution:

Autosampler Location: 49
Date Collected: 11/28/12 7:18:02 PM
Data Type: Reprocessed on 11/29/12 2:04:42 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72096M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-128.6	-1.155	ug/L	0.1458	-0.046	mg/kg	0.0058	12.62%
Al 308.215	1.6	3.402	ug/L	8.7755	0.135	mg/kg	0.3482	257.94%
As 188.979	-0.8	-0.205	ug/L	0.7150	-0.008	mg/kg	0.0284	348.50%
B	-179.0	18.74	ug/L	1.342	0.744	mg/kg	0.0533	7.16%
Ba 233.527	3684.3	11.70	ug/L	0.131	0.464	mg/kg	0.0052	1.12%
Be 313.107	-245.4	-0.046	ug/L	0.0154	-0.002	mg/kg	0.0006	33.12%
Ca 315.887	12823.1	1264	ug/L	8.3	50.14	mg/kg	0.330	0.66%
Cd 214.440	603.3	0.503	ug/L	0.0613	0.020	mg/kg	0.0024	12.20%
Co 228.616	45.7	0.118	ug/L	0.3100	0.005	mg/kg	0.0123	262.76%
Cr 267.716	204.6	1.934	ug/L	0.1192	0.077	mg/kg	0.0047	6.16%
Cu 327.393	1438.4	16.00	ug/L	0.108	0.635	mg/kg	0.0043	0.67%
Fe 273.955	549348.0	23880	ug/L	165.4	947.5	mg/kg	6.56	0.69%
K 766.490	168972.2	93710	ug/L	635.4	3719	mg/kg	25.2	0.68%
Mg 285.213	49712.2	3186	ug/L	16.1	126.4	mg/kg	0.64	0.50%
Mn 257.610	90.2	3.138	ug/L	0.1325	0.125	mg/kg	0.0053	4.22%
Mo 202.031	9.7	2.385	ug/L	0.4586	0.095	mg/kg	0.0182	19.23%
Na 589.592	164499.9	15560	ug/L	151.7	617.3	mg/kg	6.02	0.97%
Ni 231.604	-51.1	-1.037	ug/L	0.0775	-0.041	mg/kg	0.0031	7.47%
P 213.617	239697.9	43410	ug/L	538.4	1723	mg/kg	21.4	1.24%
Pb 220.353	-40.3	-3.069	ug/L	0.1220	-0.122	mg/kg	0.0048	3.98%
Sb 206.836	7.5	1.435	ug/L	0.2447	0.057	mg/kg	0.0097	17.06%
Se 196.026	58.1	26.44	ug/L	0.847	1.049	mg/kg	0.0336	3.20%
Sn 189.927	-58.9	-8.831	ug/L	0.5188	-0.350	mg/kg	0.0206	5.87%
Sr 421.552	1216.4	1.567	ug/L	0.0171	0.062	mg/kg	0.0007	1.09%
Ti 337.279	52.2	0.976	ug/L	0.2418	0.039	mg/kg	0.0096	24.78%
Tl 190.801	-5.5	-0.940	ug/L	0.3702	-0.037	mg/kg	0.0147	39.40%
V 292.402	978.7	-1.121	ug/L	0.0868	-0.045	mg/kg	0.0034	7.74%
Zn 206.200	35227.3	465.6	ug/L	0.72	18.48	mg/kg	0.029	0.16%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12028B
Sample Collection Date: 11/17/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69340
APPL ID: AY72098

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U J	0.50	mg/kg	1	12/10/12	12/11/12

J = Estimated value.

Printed: 12/13/12 4:39:23 PM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 117
Sample ID: AY72098M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.04 g
Dilution:

Autosampler Location: 51
Date Collected: 12/11/12 7:33:52 PM
Data Type: Reprocessed on 12/12/12 9:41:29 AM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72098M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	723.5	5.676	ug/L	0.3024	0.278	mg/kg	0.0148	5.33%
Al 308.215	8457.0	4991	ug/L	16.9	244.7	mg/kg	0.83	0.34%
As 188.979	75.0	14.33	ug/L	1.662	0.703	mg/kg	0.0815	11.60%
B	196.0	-19.94	ug/L	0.971	-0.978	mg/kg	0.0476	4.87%
Ba 233.527	134661.0	827.8	ug/L	4.41	40.58	mg/kg	0.216	0.53%
Be 313.107	-4912.6	-0.787	ug/L	0.0252	-0.039	mg/kg	0.0012	3.21%
Ca 315.887	34472675.2	2887000	ug/L	22557.5	141500	mg/kg	1105.8	0.78%
Cd 214.440	34.6	-6.091	ug/L	0.1046	-0.299	mg/kg	0.0051	1.72%
Co 228.616	232.9	-6.044	ug/L	0.2889	-0.296	mg/kg	0.0142	4.78%
Cr 267.716	9217.6	58.45	ug/L	0.088	2.865	mg/kg	0.0043	0.15%
Cu 327.393	-2828.8	-31.02	ug/L	0.949	-1.520	mg/kg	0.0465	3.06%
Fe 273.955	47827.6	1788	ug/L	13.1	87.63	mg/kg	0.643	0.73%
K 766.490	12484.4	3786	ug/L	100.9	185.6	mg/kg	4.95	2.67%
Mg 285.213	1038924.9	52970	ug/L	579.4	2596	mg/kg	28.4	1.09%
Mn 257.610	1073.3	6.005	ug/L	0.1414	0.294	mg/kg	0.0069	2.36%
Mo 202.031	-100.6	-16.83	ug/L	0.111	-0.825	mg/kg	0.0054	0.66%
Na 589.592	1230811.2	92860	ug/L	1103.6	4552	mg/kg	54.1	1.19%
Ni 231.604	1405.7	21.45	ug/L	0.229	1.052	mg/kg	0.0112	1.07%
P 213.617	8389944.6	1208000	ug/L	15372.6	59200	mg/kg	753.6	1.27%
Pb 220.353	-97.6	-6.720	ug/L	0.5613	-0.329	mg/kg	0.0275	8.35%
Sb 206.836	15.9	2.542	ug/L	0.9682	0.125	mg/kg	0.0475	38.09%
Se 196.026	16.7	-39.32	ug/L	1.072	-1.927	mg/kg	0.0525	2.73%
Sn 189.927	989.4	139.5	ug/L	0.86	6.839	mg/kg	0.0421	0.62%
Sr 421.552	573725.4	550.5	ug/L	7.01	26.99	mg/kg	0.343	1.27%
Ti 337.279	876.7	13.53	ug/L	0.139	0.663	mg/kg	0.0068	1.02%
Tl 190.801	-22.2	-3.343	ug/L	0.4921	-0.164	mg/kg	0.0241	14.72%
V 292.402	331.5	-0.544	ug/L	0.2915	-0.027	mg/kg	0.0143	53.55%
Zn 206.200	75856.9	878.0	ug/L	5.28	43.04	mg/kg	0.259	0.60%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12028L
Sample Collection Date: 11/17/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69340
APPL ID: AY72099

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/28/12	11/28/12

Printed: 12/13/12 4:39:23 PM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 44
Sample ID: AY72099M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.53 g
Dilution:

Autosampler Location: 50
Date Collected: 11/28/12 7:36:50 PM
Data Type: Reprocessed on 11/29/12 2:04:45 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72099M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-212.3	-1.907	ug/L	0.3481	-0.075	mg/kg	0.0138	18.25%
Al 308.215	15.0	10.88	ug/L	5.918	0.430	mg/kg	0.2339	54.37%
As 188.979	19.4	4.721	ug/L	1.5643	0.187	mg/kg	0.0618	33.13%
B	41.5	21.67	ug/L	4.443	0.857	mg/kg	0.1756	20.50%
Ba 233.527	447.5	1.745	ug/L	0.1426	0.069	mg/kg	0.0056	8.17%
Be 313.107	-252.3	-0.048	ug/L	0.0103	-0.002	mg/kg	0.0004	21.54%
Ca 315.887	18637.1	1844	ug/L	28.6	72.87	mg/kg	1.129	1.55%
Cd 214.440	569.4	1.746	ug/L	0.0649	0.069	mg/kg	0.0026	3.72%
Co 228.616	76.4	1.196	ug/L	0.1049	0.047	mg/kg	0.0041	8.77%
Cr 267.716	477.9	3.750	ug/L	0.3278	0.148	mg/kg	0.0130	8.74%
Cu 327.393	90441.6	1006	ug/L	9.2	39.77	mg/kg	0.364	0.91%
Fe 273.955	51243.9	2225	ug/L	18.6	87.96	mg/kg	0.735	0.84%
K 766.490	112282.2	62280	ug/L	1066.1	2462	mg/kg	42.1	1.71%
Mg 285.213	68758.0	4372	ug/L	75.3	172.8	mg/kg	2.98	1.72%
Mn 257.610	1639.4	37.48	ug/L	0.238	1.481	mg/kg	0.0094	0.63%
Mo 202.031	106.0	3.025	ug/L	0.3271	0.120	mg/kg	0.0129	10.81%
Na 589.592	214411.2	20300	ug/L	269.3	802.4	mg/kg	10.64	1.33%
Ni 231.604	-24.5	-0.515	ug/L	0.2650	-0.020	mg/kg	0.0105	51.42%
P 213.617	493126.2	89310	ug/L	1007.3	3530	mg/kg	39.8	1.13%
Pb 220.353	-25.1	-1.913	ug/L	0.6681	-0.076	mg/kg	0.0264	34.92%
Sb 206.836	8.1	1.562	ug/L	0.7085	0.062	mg/kg	0.0280	45.36%
Se 196.026	119.3	28.11	ug/L	2.148	1.111	mg/kg	0.0849	7.64%
Sn 189.927	-29.3	-4.390	ug/L	1.2113	-0.174	mg/kg	0.0479	27.59%
Sr 421.552	673.7	0.935	ug/L	0.1065	0.037	mg/kg	0.0042	11.39%
Ti 337.279	42.4	0.859	ug/L	0.1498	0.034	mg/kg	0.0059	17.45%
Tl 190.801	-6.1	-1.055	ug/L	0.6394	-0.042	mg/kg	0.0253	60.62%
V 292.402	56.2	-0.247	ug/L	0.2756	-0.010	mg/kg	0.0109	111.64%
Zn 206.200	36288.4	481.4	ug/L	4.63	19.03	mg/kg	0.183	0.96%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12029B
Sample Collection Date: 11/17/12

APPL.Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69340
APPL ID: AY72101

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	1.2 J	0.50	mg/kg	1	12/10/12	12/11/12

J = Estimated value.

Printed: 12/13/12 4:39:23 PM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 118
Sample ID: AY72101M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.13 g
Dilution:

Autosampler Location: 52
Date Collected: 12/11/12 7:39:30 PM
Data Type: Reprocessed on 12/12/12 9:41:30 AM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72101M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	514.3	4.035	ug/L	0.4252	0.189	mg/kg	0.0200	10.54%
Al 308.215	87.2	-2.748	ug/L	4.8182	-0.129	mg/kg	0.2262	175.31%
As 188.979	72.8	13.91	ug/L	2.621	0.653	mg/kg	0.1231	18.85%
B	157.4	-21.55	ug/L	0.555	-1.012	mg/kg	0.0260	2.57%
Ba 233.527	185126.0	1141	ug/L	9.8	53.58	mg/kg	0.462	0.86%
Be 313.107	-4587.8	-0.735	ug/L	0.0157	-0.035	mg/kg	0.0007	2.13%
Ca 315.887	28341341.4	2374000	ug/L	18077.9	111400	mg/kg	848.7	0.76%
Cd 214.440	39.8	-4.950	ug/L	0.0653	-0.232	mg/kg	0.0031	1.32%
Co 228.616	187.4	-5.081	ug/L	0.1203	-0.239	mg/kg	0.0056	2.37%
Cr 267.716	7102.8	44.62	ug/L	0.055	2.095	mg/kg	0.0026	0.12%
Cu 327.393	-1093.0	-11.98	ug/L	0.873	-0.563	mg/kg	0.0410	7.28%
Fe 273.955	3753.4	88.31	ug/L	1.020	4.146	mg/kg	0.0479	1.16%
K 766.490	9237.1	2709	ug/L	83.1	127.2	mg/kg	3.90	3.07%
Mg 285.213	925101.0	47170	ug/L	865.1	2214	mg/kg	40.6	1.83%
Mn 257.610	455.8	-3.300	ug/L	0.3374	-0.155	mg/kg	0.0158	10.22%
Mo 202.031	-64.9	-13.53	ug/L	0.170	-0.635	mg/kg	0.0080	1.26%
Na 589.592	968790.6	73080	ug/L	1480.0	3431	mg/kg	69.5	2.03%
Ni 231.604	6858.1	107.9	ug/L	0.40	5.067	mg/kg	0.0189	0.37%
P 213.617	7143347.5	1028000	ug/L	10675.8	48280	mg/kg	501.2	1.04%
Pb 220.353	385.3	26.52	ug/L	0.938	1.245	mg/kg	0.0441	3.54%
Sb 206.836	1.4	0.228	ug/L	0.5653	0.011	mg/kg	0.0265	248.12%
Se 196.026	25.9	-30.82	ug/L	2.242	-1.447	mg/kg	0.1053	7.28%
Sn 189.927	81.1	11.44	ug/L	1.649	0.537	mg/kg	0.0774	14.42%
Sr 421.552	764001.5	743.2	ug/L	13.93	34.89	mg/kg	0.654	1.87%
Ti 337.279	1937.0	38.90	ug/L	0.295	1.826	mg/kg	0.0138	0.76%
Tl 190.801	-17.3	-2.603	ug/L	0.4519	-0.122	mg/kg	0.0212	17.36%
V 292.402	105.8	-0.862	ug/L	0.1688	-0.040	mg/kg	0.0079	19.58%
Zn 206.200	59288.5	686.4	ug/L	6.44	32.22	mg/kg	0.303	0.94%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12029L
Sample Collection Date: 11/17/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69340
APPL ID: AY72102

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/28/12	11/28/12

Printed: 12/13/12 4:39:23 PM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 45
Sample ID: AY72102M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.46 g
Dilution:

Autosampler Location: 51
Date Collected: 11/28/12 7:42:12 PM
Data Type: Reprocessed on 11/29/12 2:04:46 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72102M01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-200.9	-1.804	ug/L	0.5646	-0.073	mg/kg	0.0230	31.29%
Al 308.215	13.2	9.389	ug/L	2.2579	0.382	mg/kg	0.0918	24.05%
As 188.979	9.5	2.312	ug/L	1.3880	0.094	mg/kg	0.0564	60.03%
B	21.9	13.83	ug/L	0.968	0.562	mg/kg	0.0393	7.00%
Ba 233.527	319.2	1.055	ug/L	0.1264	0.043	mg/kg	0.0051	11.98%
Be 313.107	-342.3	-0.065	ug/L	0.0142	-0.003	mg/kg	0.0006	22.00%
Ca 315.887	12789.2	1263	ug/L	10.5	51.35	mg/kg	0.429	0.84%
Cd 214.440	858.8	2.703	ug/L	0.0622	0.110	mg/kg	0.0025	2.30%
Co 228.616	113.1	1.834	ug/L	0.3452	0.075	mg/kg	0.0140	18.82%
Cr 267.716	624.5	4.908	ug/L	0.0708	0.200	mg/kg	0.0029	1.44%
Cu 327.393	92363.2	1028	ug/L	15.2	41.78	mg/kg	0.619	1.48%
Fe 273.955	42871.1	1861	ug/L	19.4	75.65	mg/kg	0.790	1.04%
K 766.490	130937.5	72620	ug/L	410.4	2952	mg/kg	16.7	0.57%
Mg 285.213	72554.2	4613	ug/L	17.5	187.5	mg/kg	0.71	0.38%
Mn 257.610	1899.3	43.41	ug/L	0.177	1.764	mg/kg	0.0072	0.41%
Mo 202.031	145.7	4.035	ug/L	0.2287	0.164	mg/kg	0.0093	5.67%
Na 589.592	152877.6	14460	ug/L	107.2	588.0	mg/kg	4.36	0.74%
Ni 231.604	-29.8	-0.615	ug/L	0.3772	-0.025	mg/kg	0.0153	61.33%
P 213.617	512123.4	92750	ug/L	1127.2	3770	mg/kg	45.8	1.22%
Pb 220.353	-15.7	-1.200	ug/L	0.7652	-0.049	mg/kg	0.0311	63.75%
Sb 206.836	9.4	1.802	ug/L	0.2745	0.073	mg/kg	0.0112	15.23%
Se 196.026	188.4	44.33	ug/L	2.005	1.802	mg/kg	0.0815	4.52%
Sn 189.927	-70.0	-10.49	ug/L	0.961	-0.426	mg/kg	0.0391	9.17%
Sr 421.552	1216.5	1.627	ug/L	0.0611	0.066	mg/kg	0.0025	3.75%
Ti 337.279	52.0	1.087	ug/L	0.2310	0.044	mg/kg	0.0094	21.25%
Tl 190.801	-9.1	-1.569	ug/L	0.1768	-0.064	mg/kg	0.0072	11.27%
V 292.402	4.0	-0.381	ug/L	0.3579	-0.015	mg/kg	0.0145	93.88%
Zn 206.200	49777.4	660.2	ug/L	8.13	26.84	mg/kg	0.330	1.23%

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69340 SDG: 69340
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/28/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 15:38	%R(1)	True CCV1	Found 16:18	%R(1)	True CCV1	Found 18:18	%R(1)	
Lead (Pb)	1000	1012	101	1000	1022	102	1000	1063	106	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69340 SDG: 69340
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/28/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 15:38	%R(1)	True CCV2	Found 19:25	%R(1)	True CCV1	Found 20:00	%R(1)	
Lead (Pb)	1000	1012	101	750	840.3	112	1000	1140	114	*

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69340 SDG: 69340

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 11/28/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C			
	15:42		16:22		18:26		19:32		18:41				
Lead (Pb)	5.00	U	2.11	J	5.00	U	5.00	U	.50	U	P		

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69340 SDG: 69340

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 11/28/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	15:42		20:08						18:41		
Lead (Pb)	5.00	U	5.00	U					.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69340 SDG: 69340

ICP ID Number: Phoebe ICS Source: Environmental Express

Analysis Date: 11/28/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 15:51	Sol AB 15:56	%R(1)
Aluminum (Al)	200000	200000	196300	207000	104
Calcium (Ca)	200000	200000	202700	215800	108
Iron (Fe)	200000	200000	181800	191200	95.6
Magnesium (Mg)	200000	200000	194900	205700	103
Lead (Pb)		1000	0.538	1028	103

(1) Control Limits: Metals 80-120

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69340 SDG: 69340
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 12/11/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 10:26	%R(1)	True CCV1	Found 10:48	%R(1)	True CCV1	Found 19:11	%R(1)	
Lead (Pb)	1000	1045	105	1000	1049	105	1000	969.1	96.9	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69340 SDG: 69340
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 12/11/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 10:26	%R(1)	True CCV2	Found 20:12	%R(1)	True	Found	%R(1)	
Lead (Pb)	1000	1045	105	750	774.6	103				P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69340 SDG: 69340

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 12/11/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C			
	10:30		10:53		19:15		20:19		19:19				
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U	P		

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No.: 69340 SDG: 69340
ICP ID Number: Phoebe ICS Source: Environmental Express

Analysis Date: 12/11/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 10:39	Sol AB 10:44	%R(1)
Aluminum (Al)	200000	200000	189000	189000	94.5
Calcium (Ca)	200000	200000	190700	190900	95.5
Iron (Fe)	200000	200000	176000	174700	87.3
Magnesium (Mg)	200000	200000	186800	186600	93.3
Lead (Pb)		1000	0.314	921.9	92.2

(1) Control Limits: Metals 80-120

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

GT12029L

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69340 SDG: 69340

Analysis Date: 11/28/12 Concentration Units: mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	20.8		ND		20.325	102		

Comments:

11/28/12 19:42 AY72102M01

11/28/12 19:47 AY72102M01-A

Sequence No.: 46
Sample ID: AY72102M01-A
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.46 g
Dilution:

Autosampler Location: 52
Date Collected: 11/28/12 7:47:34 PM
Data Type: Reprocessed on 11/29/12 2:04:47 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72102M01-A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	20926.5	188.0	ug/L	2.39	7.640	mg/kg	0.0972	1.27%
Al 308.215	5446.5	3787	ug/L	15.9	154.0	mg/kg	0.65	0.42%
As 188.979	1984.5	482.6	ug/L	3.20	19.62	mg/kg	0.130	0.66%
B	1463.2	506.7	ug/L	5.41	20.60	mg/kg	0.220	1.07%
Ba 233.527	71658.1	495.0	ug/L	5.00	20.12	mg/kg	0.203	1.01%
Be 313.107	525044.7	99.17	ug/L	1.132	4.031	mg/kg	0.0460	1.14%
Ca 315.887	525358.4	52100	ug/L	416.0	2118	mg/kg	16.9	0.80%
Cd 214.440	31343.8	101.6	ug/L	0.99	4.131	mg/kg	0.0403	0.98%
Co 228.616	32174.6	549.0	ug/L	1.83	22.32	mg/kg	0.074	0.33%
Cr 267.716	64778.0	512.6	ug/L	5.50	20.84	mg/kg	0.223	1.07%
Cu 327.393	137861.6	1534	ug/L	17.3	62.35	mg/kg	0.702	1.13%
Fe 273.955	86810.2	3726	ug/L	33.6	151.5	mg/kg	1.37	0.90%
K 766.490	147121.3	81600	ug/L	904.6	3317	mg/kg	36.8	1.11%
Mg 285.213	846832.8	53840	ug/L	447.7	2188	mg/kg	18.2	0.83%
Mn 257.610	24964.2	570.5	ug/L	3.53	23.19	mg/kg	0.144	0.62%
Mo 202.031	20246.0	521.7	ug/L	1.59	21.21	mg/kg	0.065	0.30%
Na 589.592	679386.2	64370	ug/L	536.8	2617	mg/kg	21.8	0.83%
Ni 231.604	30148.3	544.3	ug/L	0.68	22.13	mg/kg	0.028	0.13%
P 213.617	539850.4	97770	ug/L	1070.3	3974	mg/kg	43.5	1.09%
Pb 220.353	6712.2	511.7	ug/L	1.72	20.80	mg/kg	0.070	0.34%
Sb 206.836	2455.6	471.7	ug/L	0.38	19.17	mg/kg	0.016	0.08%
Se 196.026	2222.4	533.3	ug/L	4.66	21.68	mg/kg	0.190	0.87%
Sn 189.927	3683.2	552.0	ug/L	2.49	22.44	mg/kg	0.101	0.45%
Sr 421.552	423091.9	503.8	ug/L	4.58	20.48	mg/kg	0.186	0.91%
Ti 337.279	18248.3	512.8	ug/L	4.31	20.84	mg/kg	0.175	0.84%
Tl 190.801	2812.3	484.6	ug/L	0.43	19.70	mg/kg	0.017	0.09%
V 292.402	108866.7	524.6	ug/L	4.23	21.32	mg/kg	0.172	0.81%
Zn 206.200	125337.0	1667	ug/L	18.4	67.76	mg/kg	0.749	1.11%

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

GT12032B

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69412 SDG: 69412

Analysis Date: 12/11/12 Concentration Units: mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	18.35		0.363		25.000	72.0		M

Comments:

12/11/12 19:56 AY72368M01

12/11/12 20:02 AY72368M01-A

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 121128A6010XF
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1 Autosampler Location: 1
Sample ID: CalBlk 121128EA I:PB O:EA Date Collected: 11/28/12 3:17:13 PM
Analyst: Data Type: Reprocessed on 11/29/12 2:03:59 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CalBlk 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	57.7	120.04	208.09%	[0.00]	ug/L
Al 308.215	118.6	11.56	9.74%	[0.00]	ug/L
As 188.979	0.4	10.72	>999.9%	[0.00]	ug/L
B	5.8	2.79	48.01%	[0.00]	ug/L
Ba 233.527	136.5	14.07	10.31%	[0.00]	ug/L
Be 313.107	1817.9	7.31	0.40%	[0.00]	ug/L
Ca 315.887	-308.5	15.09	4.89%	[0.00]	ug/L
Cd 214.440	413.7	1.70	0.41%	[0.00]	ug/L
Co 228.616	57.6	19.31	33.53%	[0.00]	ug/L
Cr 267.716	657.2	6.38	0.97%	[0.00]	ug/L
Cu 327.393	-37.5	16.54	44.05%	[0.00]	ug/L
Fe 273.955	213.1	59.06	27.72%	[0.00]	ug/L
K 766.490	-455.9	40.12	8.80%	[0.00]	ug/L
Mg 285.213	-99.9	4.14	4.14%	[0.00]	ug/L
Mn 257.610	-59.7	5.18	8.68%	[0.00]	ug/L
Mo 202.031	159.3	7.97	5.00%	[0.00]	ug/L
Na 589.592	-188.1	68.21	36.27%	[0.00]	ug/L
Ni 231.604	-189.4	8.63	4.55%	[0.00]	ug/L
P 213.617	45.4	1.95	4.30%	[0.00]	ug/L
Pb 220.353	-29.5	13.89	47.01%	[0.00]	ug/L
Sb 206.836	1.1	8.00	759.30%	[0.00]	ug/L
Se 196.026	-14.2	3.03	21.36%	[0.00]	ug/L
Sn 189.927	-4.9	9.96	205.26%	[0.00]	ug/L
Sr 421.552	854.9	54.22	6.34%	[0.00]	ug/L
Ti 337.279	-391.0	7.59	1.94%	[0.00]	ug/L
Tl 190.801	-8.9	2.13	23.96%	[0.00]	ug/L
V 292.402	-611.4	20.48	3.35%	[0.00]	ug/L
Zn 206.200	-454.6	6.23	1.37%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/28/12 3:21:33 PM
Data Type: Reprocessed on 11/29/12 2:04:00 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	183.8	110.81	60.31%	[1.00]	ug/L
Al 308.215	163.6	9.65	5.90%	[100.00]	ug/L
As 188.979	16.1	1.09	6.79%	[3.50]	ug/L
B	173.6	2.25	1.30%	[50.00]	ug/L
Ba 233.527	865.1	16.96	1.96%	[5.00]	ug/L
Be 313.107	12860.5	252.18	1.96%	[2.00]	ug/L
Ca 315.887	1328.8	13.30	1.00%	[100.00]	ug/L
Cd 214.440	1927.0	3.97	0.21%	[5.00]	ug/L
Co 228.616	374.8	15.30	4.08%	[5.00]	ug/L
Cr 267.716	801.2	28.50	3.56%	[5.00]	ug/L
Cu 327.393	513.6	41.93	8.16%	[5.00]	ug/L
Fe 273.955	1422.8	26.83	1.89%	[50.00]	ug/L
K 766.490	1740.2	25.87	1.49%	[1000.00]	ug/L
Mg 285.213	955.3	22.75	2.38%	[50]	ug/L
Mn 257.610	258.6	6.30	2.44%	[5.00]	ug/L
Mo 202.031	224.6	4.23	1.89%	[5.00]	ug/L
Na 589.592	12062.4	205.86	1.71%	[1000.00]	ug/L
Ni 231.604	396.6	27.38	6.90%	[5.00]	ug/L
P 213.617	162.8	6.79	4.17%	[25.00]	ug/L
Pb 220.353	51.4	1.19	2.31%	[3.00]	ug/L
Sb 206.836	33.2	1.33	4.01%	[5.00]	ug/L
Se 196.026	19.8	8.82	44.46%	[5.00]	ug/L
Sn 189.927	38.8	3.89	10.05%	[5.00]	ug/L
Sr 421.552	4979.3	104.98	2.11%	[5.00]	ug/L
Ti 337.279	201.4	2.79	1.38%	[5.00]	ug/L
Tl 190.801	33.9	2.35	6.93%	[5.00]	ug/L
V 292.402	1188.6	179.37	15.09%	[5.00]	ug/L
Zn 206.200	2035.5	9.80	0.48%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/28/12 3:25:57 PM
Data Type: Reprocessed on 11/29/12 2:04:01 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	57223.4	420.02	0.73%	[500.0]	ug/L
Al 308.215	30433.0	214.70	0.71%	[20000.00]	ug/L
As 188.979	4355.2	6.10	0.14%	[1000.00]	ug/L
B	3115.8	14.65	0.47%	[1000.00]	ug/L
Ba 233.527	150389.2	1612.74	1.07%	[1000.00]	ug/L
Be 313.107	5694094.7	62060.69	1.09%	[1000.00]	ug/L
Ca 315.887	543188.8	8287.30	1.53%	[50000]	ug/L
Cd 214.440	327625.9	3706.38	1.13%	[1000.00]	ug/L
Co 228.616	61454.7	578.00	0.94%	[1000.00]	ug/L
Cr 267.716	132573.3	1378.71	1.04%	[1000.00]	ug/L
Cu 327.393	92180.8	560.78	0.61%	[1000.00]	ug/L
Fe 273.955	482707.5	5163.58	1.07%	[20000]	ug/L
K 766.490	37578.3	328.66	0.87%	[20000]	ug/L
Mg 285.213	843954.0	12383.67	1.47%	[50000]	ug/L
Mn 257.610	46574.8	206.28	0.44%	[1000.00]	ug/L
Mo 202.031	40606.2	315.30	0.78%	[1000.00]	ug/L
Na 589.592	280460.2	4299.57	1.53%	[25000]	ug/L
Ni 231.604	58466.5	569.27	0.97%	[1000.00]	ug/L
P 213.617	28836.9	317.10	1.10%	[5000]	ug/L
Pb 220.353	13980.8	61.42	0.44%	[1000.00]	ug/L
Sb 206.836	5457.6	8.86	0.16%	[1000.00]	ug/L
Se 196.026	4422.2	16.78	0.38%	[1000.00]	ug/L
Sn 189.927	7165.5	40.43	0.56%	[1000.00]	ug/L
Sr 421.552	894684.5	13548.45	1.51%	[1000.00]	ug/L
Ti 337.279	37471.6	313.63	0.84%	[1000.00]	ug/L
Tl 190.801	6162.6	30.14	0.49%	[1000.00]	ug/L
V 292.402	220475.7	2127.57	0.96%	[1000.00]	ug/L
Zn 206.200	80423.3	1074.30	1.34%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 11/28/12 3:29:32 PM
Data Type: Reprocessed on 11/29/12 2:04:02 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	110562.9	2122.21	1.92%	[1000.00]	ug/L
Al 308.215	56795.9	765.00	1.35%	[40000.00]	ug/L
As 188.979	8103.9	187.03	2.31%	[2000.00]	ug/L
B	5798.8	107.75	1.86%	[2000.00]	ug/L
Ba 233.527	285260.5	5243.57	1.84%	[2000.00]	ug/L
Be 313.107	10388989.5	29266.24	0.28%	[2000.00]	ug/L
Ca 315.887	988645.0	7050.07	0.71%	[100000.0]	ug/L
Cd 214.440	608232.3	13313.60	2.19%	[2000.00]	ug/L
Co 228.616	115651.3	2290.64	1.98%	[2000.00]	ug/L
Cr 267.716	249645.7	4384.12	1.76%	[2000.00]	ug/L
Cu 327.393	178599.1	3344.85	1.87%	[2000.00]	ug/L
Fe 273.955	908855.2	16885.84	1.86%	[40000]	ug/L
K 766.490	71361.7	253.34	0.36%	[40000]	ug/L
Mg 285.213	1544299.0	9686.42	0.63%	[100000]	ug/L
Mn 257.610	85667.6	1412.31	1.65%	[2000.00]	ug/L
Mo 202.031	76845.3	1465.21	1.91%	[2000.00]	ug/L
Na 589.592	518981.0	2566.64	0.49%	[50000]	ug/L
Ni 231.604	108917.3	2056.54	1.89%	[2000.00]	ug/L
P 213.617	54603.4	1354.33	2.48%	[10000]	ug/L
Pb 220.353	25804.3	697.64	2.70%	[2000.00]	ug/L
Sb 206.836	10285.6	304.49	2.96%	[2000.00]	ug/L
Se 196.026	8157.0	246.77	3.03%	[2000.00]	ug/L
Sn 189.927	13098.2	262.48	2.00%	[2000.00]	ug/L
Sr 421.552	1651339.5	8488.39	0.51%	[2000.00]	ug/L
Ti 337.279	70039.3	1097.85	1.57%	[2000.00]	ug/L
Tl 190.801	11428.2	349.97	3.06%	[2000.00]	ug/L
V 292.402	419360.2	7657.02	1.83%	[2000.00]	ug/L
Zn 206.200	148542.4	3385.10	2.28%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	111.3	0.00000	0.999902	
Al 308.215	3	Lin Thru 0	0.0	1.440	0.00000	0.999601	
As 188.979	3	Lin Thru 0	0.0	4.113	0.00000	0.999565	
B	3	Lin Thru 0	0.0	2.943	0.00000	0.999560	
Ba 233.527	3	Lin Thru 0	0.0	144.2	0.00000	0.999768	
Be 313.107	3	Lin Thru 0	0.0	5294	0.00000	0.999288	
Ca 315.887	3	Lin Thru 0	0.0	10.08	0.00000	0.999249	
Cd 214.440	3	Lin Thru 0	0.0	308.8	0.00000	0.999537	
Co 228.616	3	Lin Thru 0	0.0	58.55	0.00000	0.999693	
Cr 267.716	3	Lin Thru 0	0.0	126.4	0.00000	0.999699	
Cu 327.393	3	Lin Thru 0	0.0	89.88	0.00000	0.999918	
Fe 273.955	3	Lin Thru 0	0.0	23.00	0.00000	0.999698	
K 766.490	3	Lin Thru 0	0.0	1.803	0.00000	0.999778	
Mg 285.213	3	Lin Thru 0	0.0	15.73	0.00000	0.999334	
Mn 257.610	3	Lin Thru 0	0.0	43.58	0.00000	0.999411	
Mo 202.031	3	Lin Thru 0	0.0	38.86	0.00000	0.999747	
Na 589.592	3	Lin Thru 0	0.0	10.55	0.00000	0.999491	
Ni 231.604	3	Lin Thru 0	0.0	55.26	0.00000	0.999579	
P 213.617	3	Lin Thru 0	0.0	5.522	0.00000	0.999753	
Pb 220.353	3	Lin Thru 0	0.0	13.12	0.00000	0.999459	
Sb 206.836	3	Lin Thru 0	0.0	5.206	0.00000	0.999707	
Se 196.026	3	Lin Thru 0	0.0	4.147	0.00000	0.999451	
Sn 189.927	3	Lin Thru 0	0.0	6.672	0.00000	0.999318	
Sr 421.552	3	Lin Thru 0	0.0	839.5	0.00000	0.999460	
Ti 337.279	3	Lin Thru 0	0.0	35.51	0.00000	0.999619	
Tl 190.801	3	Lin Thru 0	0.0	5.804	0.00000	0.999523	

V 292.402	3	Lin Thru 0	0.0	211.8	0.00000	0.999792
Zn 206.200	3	Lin Thru 0	0.0	75.50	0.00000	0.999465

Sequence No.: 5
Sample ID: ICV 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 11/28/12 3:38:21 PM
Data Type: Reprocessed on 11/29/12 2:04:04 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	53891.1	484.0	ug/L	8.11	484.0	ug/L	8.11	1.68%
QC value within limits for Ag 338.289 Recovery = 96.80%								
Al 308.215	33951.6	23580	ug/L	286.9	23580	ug/L	286.9	1.22%
QC value within limits for Al 308.215 Recovery = 94.34%								
As 188.979	4019.0	977.2	ug/L	5.42	977.2	ug/L	5.42	0.55%
QC value within limits for As 188.979 Recovery = 97.72%								
B	2849.2	1043	ug/L	18.4	1043	ug/L	18.4	1.76%
QC value within limits for B Recovery = 104.32%								
Ba 233.527	139599.5	955.0	ug/L	18.40	955.0	ug/L	18.40	1.93%
QC value within limits for Ba 233.527 Recovery = 95.50%								
Be 313.107	5284222.5	998.1	ug/L	13.10	998.1	ug/L	13.10	1.31%
QC value within limits for Be 313.107 Recovery = 99.81%								
Ca 315.887	241255.9	23920	ug/L	98.3	23920	ug/L	98.3	0.41%
QC value within limits for Ca 315.887 Recovery = 95.68%								
Cd 214.440	310196.9	1004	ug/L	17.8	1004	ug/L	17.8	1.77%
QC value within limits for Cd 214.440 Recovery = 100.39%								
Co 228.616	58384.0	996.0	ug/L	18.94	996.0	ug/L	18.94	1.90%
QC value within limits for Co 228.616 Recovery = 99.60%								
Cr 267.716	126179.1	999.6	ug/L	15.94	999.6	ug/L	15.94	1.60%
QC value within limits for Cr 267.716 Recovery = 99.96%								
Cu 327.393	86277.6	960.0	ug/L	15.28	960.0	ug/L	15.28	1.59%
QC value within limits for Cu 327.393 Recovery = 96.00%								
Fe 273.955	554184.7	24010	ug/L	441.1	24010	ug/L	441.1	1.84%
QC value within limits for Fe 273.955 Recovery = 96.04%								
K 766.490	42979.0	23830	ug/L	122.3	23830	ug/L	122.3	0.51%
QC value within limits for K 766.490 Recovery = 95.31%								
Mg 285.213	378907.6	24110	ug/L	128.4	24110	ug/L	128.4	0.53%
QC value within limits for Mg 285.213 Recovery = 96.46%								
Mn 257.610	43504.6	998.5	ug/L	11.54	998.5	ug/L	11.54	1.16%
QC value within limits for Mn 257.610 Recovery = 99.85%								
Mo 202.031	37230.6	960.6	ug/L	16.49	960.6	ug/L	16.49	1.72%
QC value within limits for Mo 202.031 Recovery = 96.06%								
Na 589.592	255645.3	24220	ug/L	101.4	24220	ug/L	101.4	0.42%
QC value within limits for Na 589.592 Recovery = 96.87%								
Ni 231.604	56705.7	1024	ug/L	20.3	1024	ug/L	20.3	1.98%
QC value within limits for Ni 231.604 Recovery = 102.40%								
P 213.617	26437.4	4788	ug/L	75.5	4788	ug/L	75.5	1.58%
QC value within limits for P 213.617 Recovery = 95.76%								
Pb 220.353	13277.2	1012	ug/L	4.8	1012	ug/L	4.8	0.47%
QC value within limits for Pb 220.353 Recovery = 101.21%								
Sb 206.836	5190.5	997.1	ug/L	6.36	997.1	ug/L	6.36	0.64%
QC value within limits for Sb 206.836 Recovery = 99.71%								
Se 196.026	4144.9	1012	ug/L	4.2	1012	ug/L	4.2	0.42%
QC value within limits for Se 196.026 Recovery = 101.24%								
Sn 189.927	4090.6	613.1	ug/L	1.57	613.1	ug/L	1.57	0.26%
QC value greater than the upper limit for Sn 189.927 Recovery = 122.61%								
Sr 421.552	810050.5	964.7	ug/L	2.49	964.7	ug/L	2.49	0.26%
QC value within limits for Sr 421.552 Recovery = 96.47%								
Ti 337.279	35713.0	1005	ug/L	12.5	1005	ug/L	12.5	1.25%
QC value within limits for Ti 337.279 Recovery = 100.53%								
Tl 190.801	5674.5	977.7	ug/L	6.24	977.7	ug/L	6.24	0.64%
QC value within limits for Tl 190.801 Recovery = 97.77%								
V 292.402	208162.3	999.0	ug/L	17.98	999.0	ug/L	17.98	1.80%
QC value within limits for V 292.402 Recovery = 99.90%								
Zn 206.200	77955.2	1042	ug/L	18.9	1042	ug/L	18.9	1.82%
QC value within limits for Zn 206.200 Recovery = 104.17%								

QC Failed. Continue with analysis.

Sequence No.: 6
Sample ID: ICB 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/28/12 3:42:56 PM
Data Type: Reprocessed on 11/29/12 2:04:05 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	1.4	0.013	ug/L	0.1983	0.013	ug/L	0.1983	>999.9%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-13.6	-9.447	ug/L	8.1751	-9.447	ug/L	8.1751	86.54%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	0.6	0.143	ug/L	0.7525	0.143	ug/L	0.7525	525.90%
QC value within limits for As 188.979 Recovery = Not calculated								
B	41.0	13.94	ug/L	0.427	13.94	ug/L	0.427	3.07%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	4.6	0.032	ug/L	0.0323	0.032	ug/L	0.0323	101.76%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-2.3	0.000	ug/L	0.0178	0.000	ug/L	0.0178	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	32.0	3.172	ug/L	1.2866	3.172	ug/L	1.2866	40.56%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	22.9	0.074	ug/L	0.0164	0.074	ug/L	0.0164	22.15%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	13.5	0.232	ug/L	0.3214	0.232	ug/L	0.3214	138.33%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	12.5	0.099	ug/L	0.3242	0.099	ug/L	0.3242	328.79%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	34.1	0.379	ug/L	0.4747	0.379	ug/L	0.4747	125.18%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	-9.4	-0.415	ug/L	1.0033	-0.415	ug/L	1.0033	241.53%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-2.1	-1.172	ug/L	131.1621	-1.172	ug/L	131.1621	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	28.2	1.791	ug/L	0.3123	1.791	ug/L	0.3123	17.44%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	4.4	0.101	ug/L	0.1338	0.101	ug/L	0.1338	132.14%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	19.5	0.502	ug/L	0.2220	0.502	ug/L	0.2220	44.21%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	120.6	11.43	ug/L	14.448	11.43	ug/L	14.448	126.42%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	3.7	0.066	ug/L	0.2659	0.066	ug/L	0.2659	405.17%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	7.0	1.267	ug/L	0.2815	1.267	ug/L	0.2815	22.21%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	16.8	1.282	ug/L	0.5787	1.282	ug/L	0.5787	45.13%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	10.2	1.958	ug/L	0.8415	1.958	ug/L	0.8415	42.97%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	3.1	0.744	ug/L	0.4407	0.744	ug/L	0.4407	59.27%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	10.0	1.495	ug/L	0.4139	1.495	ug/L	0.4139	27.69%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	163.6	0.195	ug/L	0.1889	0.195	ug/L	0.1889	96.93%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-5.7	-0.161	ug/L	0.2392	-0.161	ug/L	0.2392	148.40%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.7	1.492	ug/L	0.9900	1.492	ug/L	0.9900	66.34%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	11.2	0.061	ug/L	0.2313	0.061	ug/L	0.2313	378.35%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	4.1	0.056	ug/L	0.1037	0.056	ug/L	0.1037	186.73%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 11/28/12 3:51:42 PM
Data Type: Reprocessed on 11/29/12 2:04:07 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	16.2	0.146	ug/L	0.1279	0.146	ug/L	0.1279	87.82%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	282715.9	196300	ug/L	838.1	196300	ug/L	838.1	0.43%
QC value within limits for Al 308.215 Recovery = 98.16%								
As 188.979	-4.8	-1.167	ug/L	0.8357	-1.167	ug/L	0.8357	71.63%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-1749.1	-19.53	ug/L	6.556	-19.53	ug/L	6.556	33.56%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	15672.9	3.332	ug/L	2.4092	3.332	ug/L	2.4092	72.30%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-584.0	-0.110	ug/L	0.0126	-0.110	ug/L	0.0126	11.44%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2043760.6	202700	ug/L	718.2	202700	ug/L	718.2	0.35%
QC value within limits for Ca 315.887 Recovery = 101.34%								
Cd 214.440	2921.2	0.128	ug/L	0.1238	0.128	ug/L	0.1238	97.09%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	271.1	-0.917	ug/L	0.3553	-0.917	ug/L	0.3553	38.75%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	36.3	0.815	ug/L	0.0828	0.815	ug/L	0.0828	10.15%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	12.3	0.137	ug/L	0.0389	0.137	ug/L	0.0389	28.44%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4183629.8	181800	ug/L	961.3	181800	ug/L	961.3	0.53%
QC value within limits for Fe 273.955 Recovery = 90.92%								
K 766.490	156.4	-30.74	ug/L	102.702	-30.74	ug/L	102.702	334.08%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3062981.2	194900	ug/L	606.4	194900	ug/L	606.4	0.31%
QC value within limits for Mg 285.213 Recovery = 97.46%								
Mn 257.610	-65.6	-0.691	ug/L	0.6549	-0.691	ug/L	0.6549	94.82%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-549.8	-0.409	ug/L	0.0967	-0.409	ug/L	0.0967	23.62%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	385.8	-9.786	ug/L	10.9129	-9.786	ug/L	10.9129	111.52%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	62.0	-0.570	ug/L	0.6714	-0.570	ug/L	0.6714	117.84%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-17.4	-3.157	ug/L	1.2718	-3.157	ug/L	1.2718	40.29%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	7.1	0.538	ug/L	0.9028	0.538	ug/L	0.9028	167.93%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	2.9	0.559	ug/L	1.0485	0.559	ug/L	1.0485	187.60%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-437.0	0.118	ug/L	3.0742	0.118	ug/L	3.0742	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-4.4	-0.653	ug/L	1.5109	-0.653	ug/L	1.5109	231.23%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	1790.6	-0.105	ug/L	0.0324	-0.105	ug/L	0.0324	30.76%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	107.2	-0.470	ug/L	2.2646	-0.470	ug/L	2.2646	481.79%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-6.5	-1.112	ug/L	1.2518	-1.112	ug/L	1.2518	112.59%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	9544.6	1.353	ug/L	0.3121	1.353	ug/L	0.3121	23.06%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	702.0	0.199	ug/L	0.4911	0.199	ug/L	0.4911	247.36%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 11/28/12 3:56:22 PM
Data Type: Reprocessed on 11/29/12 2:04:08 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	118785.0	1067	ug/L	6.8	1067	ug/L	6.8	0.63%
QC value within limits for Ag 338.289 Recovery = 106.69%								
Al 308.215	298141.2	207000	ug/L	467.7	207000	ug/L	467.7	0.23%
QC value within limits for Al 308.215 Recovery = 103.52%								
As 188.979	2144.7	521.5	ug/L	0.67	521.5	ug/L	0.67	0.13%
QC value within limits for As 188.979 Recovery = 104.30%								
B	-1900.1	-41.92	ug/L	10.355	-41.92	ug/L	10.355	24.70%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	90390.2	516.5	ug/L	2.48	516.5	ug/L	2.48	0.48%
QC value within limits for Ba 233.527 Recovery = 103.30%								
Be 313.107	2751027.8	519.6	ug/L	0.91	519.6	ug/L	0.91	0.17%
QC value within limits for Be 313.107 Recovery = 103.92%								
Ca 315.887	2176189.4	215800	ug/L	650.7	215800	ug/L	650.7	0.30%
QC value within limits for Ca 315.887 Recovery = 107.90%								
Cd 214.440	315844.8	1013	ug/L	5.6	1013	ug/L	5.6	0.55%
QC value within limits for Cd 214.440 Recovery = 101.32%								
Co 228.616	29789.0	503.9	ug/L	3.67	503.9	ug/L	3.67	0.73%
QC value within limits for Co 228.616 Recovery = 100.78%								
Cr 267.716	65030.6	515.7	ug/L	3.43	515.7	ug/L	3.43	0.66%
QC value within limits for Cr 267.716 Recovery = 103.14%								
Cu 327.393	47251.1	525.7	ug/L	2.62	525.7	ug/L	2.62	0.50%
QC value within limits for Cu 327.393 Recovery = 105.15%								
Fe 273.955	4399534.3	191200	ug/L	605.1	191200	ug/L	605.1	0.32%
QC value within limits for Fe 273.955 Recovery = 95.59%								
K 766.490	-23.1	-138.7	ug/L	102.28	-138.7	ug/L	102.28	73.76%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3232851.9	205700	ug/L	711.7	205700	ug/L	711.7	0.35%
QC value within limits for Mg 285.213 Recovery = 102.87%								
Mn 257.610	23014.6	529.0	ug/L	6.47	529.0	ug/L	6.47	1.22%
QC value within limits for Mn 257.610 Recovery = 105.80%								
Mo 202.031	19565.9	518.3	ug/L	2.33	518.3	ug/L	2.33	0.45%
QC value within limits for Mo 202.031 Recovery = 103.67%								
Na 589.592	313.2	-21.26	ug/L	4.378	-21.26	ug/L	4.378	20.59%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	56477.2	1019	ug/L	7.1	1019	ug/L	7.1	0.70%
QC value within limits for Ni 231.604 Recovery = 101.93%								
P 213.617	-5.0	-0.911	ug/L	1.7464	-0.911	ug/L	1.7464	191.71%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	13481.6	1028	ug/L	3.4	1028	ug/L	3.4	0.33%
QC value within limits for Pb 220.353 Recovery = 102.77%								
Sb 206.836	2689.3	516.6	ug/L	2.71	516.6	ug/L	2.71	0.52%
QC value within limits for Sb 206.836 Recovery = 103.32%								
Se 196.026	1712.1	523.6	ug/L	1.65	523.6	ug/L	1.65	0.32%
QC value within limits for Se 196.026 Recovery = 104.71%								
Sn 189.927	-18.5	-2.771	ug/L	1.3352	-2.771	ug/L	1.3352	48.19%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2230.7	0.287	ug/L	0.1460	0.287	ug/L	0.1460	50.88%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	117.3	-0.331	ug/L	3.0666	-0.331	ug/L	3.0666	927.76%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2896.6	499.1	ug/L	3.53	499.1	ug/L	3.53	0.71%
QC value within limits for Tl 190.801 Recovery = 99.82%								
V 292.402	121021.7	537.5	ug/L	3.29	537.5	ug/L	3.29	0.61%
QC value within limits for V 292.402 Recovery = 107.50%								
Zn 206.200	77767.9	1026	ug/L	8.0	1026	ug/L	8.0	0.78%
QC value within limits for Zn 206.200 Recovery = 102.56%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/28/12 4:18:01 PM
Data Type: Reprocessed on 11/29/12 2:04:09 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	53169.0	477.5	ug/L	20.88	477.5	ug/L	20.88	4.37%
QC value within limits for Ag 338.289 Recovery = 95.51%								
Al 308.215	28768.7	19980	ug/L	222.4	19980	ug/L	222.4	1.11%
QC value within limits for Al 308.215 Recovery = 99.92%								
As 188.979	4166.1	1013	ug/L	2.6	1013	ug/L	2.6	0.26%
QC value within limits for As 188.979 Recovery = 101.30%								
B	2982.1	1073	ug/L	11.6	1073	ug/L	11.6	1.08%
QC value within limits for B Recovery = 107.28%								
Ba 233.527	140620.7	964.6	ug/L	54.03	964.6	ug/L	54.03	5.60%
QC value within limits for Ba 233.527 Recovery = 96.46%								
Be 313.107	5366046.8	1014	ug/L	23.5	1014	ug/L	23.5	2.31%
QC value within limits for Be 313.107 Recovery = 101.35%								
Ca 315.887	515595.5	51130	ug/L	537.3	51130	ug/L	537.3	1.05%
QC value within limits for Ca 315.887 Recovery = 102.26%								
Cd 214.440	308919.6	1000.0	ug/L	60.45	1000.0	ug/L	60.45	6.05%
QC value within limits for Cd 214.440 Recovery = 100.00%								
Co 228.616	57599.2	982.7	ug/L	56.43	982.7	ug/L	56.43	5.74%
QC value within limits for Co 228.616 Recovery = 98.27%								
Cr 267.716	123980.6	981.8	ug/L	55.51	981.8	ug/L	55.51	5.65%
QC value within limits for Cr 267.716 Recovery = 98.18%								
Cu 327.393	86132.0	958.3	ug/L	34.82	958.3	ug/L	34.82	3.63%
QC value within limits for Cu 327.393 Recovery = 95.83%								
Fe 273.955	452519.1	19590	ug/L	1101.3	19590	ug/L	1101.3	5.62%
QC value within limits for Fe 273.955 Recovery = 97.95%								
K 766.490	35686.9	19780	ug/L	39.7	19780	ug/L	39.7	0.20%
QC value within limits for K 766.490 Recovery = 98.88%								
Mg 285.213	798634.7	50790	ug/L	435.9	50790	ug/L	435.9	0.86%
QC value within limits for Mg 285.213 Recovery = 101.58%								
Mn 257.610	44214.7	1013	ug/L	8.9	1013	ug/L	8.9	0.88%
QC value within limits for Mn 257.610 Recovery = 101.34%								
Mo 202.031	37913.4	977.7	ug/L	49.53	977.7	ug/L	49.53	5.07%
QC value within limits for Mo 202.031 Recovery = 97.77%								
Na 589.592	263349.8	24950	ug/L	208.8	24950	ug/L	208.8	0.84%
QC value within limits for Na 589.592 Recovery = 99.78%								
Ni 231.604	54948.7	992.2	ug/L	53.23	992.2	ug/L	53.23	5.36%
QC value within limits for Ni 231.604 Recovery = 99.22%								
P 213.617	27197.2	4925	ug/L	249.4	4925	ug/L	249.4	5.06%
QC value within limits for P 213.617 Recovery = 98.51%								
Pb 220.353	13408.0	1022	ug/L	2.1	1022	ug/L	2.1	0.21%
QC value within limits for Pb 220.353 Recovery = 102.21%								
Sb 206.836	5257.2	1010	ug/L	5.5	1010	ug/L	5.5	0.55%
QC value within limits for Sb 206.836 Recovery = 100.99%								
Se 196.026	4236.9	1031	ug/L	3.4	1031	ug/L	3.4	0.33%
QC value within limits for Se 196.026 Recovery = 103.10%								
Sn 189.927	6881.6	1031	ug/L	4.4	1031	ug/L	4.4	0.42%
QC value within limits for Sn 189.927 Recovery = 103.14%								
Sr 421.552	838783.1	998.8	ug/L	8.84	998.8	ug/L	8.84	0.88%
QC value within limits for Sr 421.552 Recovery = 99.88%								
Ti 337.279	35474.9	998.2	ug/L	9.75	998.2	ug/L	9.75	0.98%
QC value within limits for Ti 337.279 Recovery = 99.82%								
Tl 190.801	5886.5	1014	ug/L	0.9	1014	ug/L	0.9	0.09%
QC value within limits for Tl 190.801 Recovery = 101.43%								
V 292.402	205745.5	988.7	ug/L	52.35	988.7	ug/L	52.35	5.30%
QC value within limits for V 292.402 Recovery = 98.87%								
Zn 206.200	75892.6	1015	ug/L	63.7	1015	ug/L	63.7	6.28%
QC value within limits for Zn 206.200 Recovery = 101.46%								

All analyte(s) passed QC.

Sequence No.: 11 Autosampler Location: 1
Sample ID: CCB 121128EA I:PB O:EA Date Collected: 11/28/12 4:22:38 PM
Analyst: Data Type: Reprocessed on 11/29/12 2:04:10 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-42.9	-0.385	ug/L	0.8842	-0.385	ug/L	0.8842	229.74%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	13.1	9.034	ug/L	15.3699	9.034	ug/L	15.3699	170.14%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.7	1.876	ug/L	1.5506	1.876	ug/L	1.5506	82.65%
QC value within limits for As 188.979 Recovery = Not calculated								
B	53.7	18.24	ug/L	2.334	18.24	ug/L	2.334	12.80%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	9.4	0.064	ug/L	0.0917	0.064	ug/L	0.0917	143.88%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	127.0	0.024	ug/L	0.0156	0.024	ug/L	0.0156	65.11%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	32.4	3.209	ug/L	1.3114	3.209	ug/L	1.3114	40.86%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	32.6	0.106	ug/L	0.0339	0.106	ug/L	0.0339	31.93%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	5.4	0.094	ug/L	0.2829	0.094	ug/L	0.2829	300.68%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	22.5	0.178	ug/L	0.1159	0.178	ug/L	0.1159	65.22%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	58.0	0.646	ug/L	0.0593	0.646	ug/L	0.0593	9.19%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	18.9	0.841	ug/L	0.5380	0.841	ug/L	0.5380	63.97%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	15.5	8.620	ug/L	34.1907	8.620	ug/L	34.1907	396.65%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	33.9	2.158	ug/L	0.3704	2.158	ug/L	0.3704	17.16%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	3.7	0.086	ug/L	0.1584	0.086	ug/L	0.1584	184.25%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	34.3	0.882	ug/L	0.6141	0.882	ug/L	0.6141	69.60%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	343.1	32.52	ug/L	16.154	32.52	ug/L	16.154	49.68%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-6.1	-0.111	ug/L	0.1399	-0.111	ug/L	0.1399	126.49%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	2.7	0.485	ug/L	0.3301	0.485	ug/L	0.3301	68.11%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	27.7	2.113	ug/L	0.6396	2.113	ug/L	0.6396	30.27%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	18.7	3.587	ug/L	1.0531	3.587	ug/L	1.0531	29.35%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	7.7	1.849	ug/L	1.4552	1.849	ug/L	1.4552	78.71%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	42.5	6.374	ug/L	0.5413	6.374	ug/L	0.5413	8.49%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	163.5	0.195	ug/L	0.1779	0.195	ug/L	0.1779	91.38%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	3.8	0.106	ug/L	0.4046	0.106	ug/L	0.4046	382.40%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2.2	0.383	ug/L	0.2898	0.383	ug/L	0.2898	75.75%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-52.9	-0.236	ug/L	0.4887	-0.236	ug/L	0.4887	206.95%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	5.6	0.077	ug/L	0.0550	0.077	ug/L	0.0550	71.90%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 30
Sample ID: CCV1 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/28/12 6:18:27 PM
Data Type: Reprocessed on 11/29/12 2:04:30 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	56538.8	507.8	ug/L	4.97	507.8	ug/L	4.97	0.98%
QC value within limits for Ag 338.289 Recovery = 101.56%								
Al 308.215	29844.0	20730	ug/L	60.4	20730	ug/L	60.4	0.29%
QC value within limits for Al 308.215 Recovery = 103.66%								
As 188.979	4324.9	1052	ug/L	5.7	1052	ug/L	5.7	0.54%
QC value within limits for As 188.979 Recovery = 105.16%								
B	3133.0	1128	ug/L	14.2	1128	ug/L	14.2	1.26%
QC value greater than the upper limit for B Recovery = 112.84%								
Ba 233.527	150444.1	1032	ug/L	10.0	1032	ug/L	10.0	0.97%
QC value within limits for Ba 233.527 Recovery = 103.20%								
Be 313.107	5674093.6	1072	ug/L	15.9	1072	ug/L	15.9	1.48%
QC value within limits for Be 313.107 Recovery = 107.17%								
Ca 315.887	540541.1	53600	ug/L	620.2	53600	ug/L	620.2	1.16%
QC value within limits for Ca 315.887 Recovery = 107.21%								
Cd 214.440	330780.8	1071	ug/L	8.6	1071	ug/L	8.6	0.80%
QC value within limits for Cd 214.440 Recovery = 107.07%								
Co 228.616	61656.6	1052	ug/L	10.0	1052	ug/L	10.0	0.96%
QC value within limits for Co 228.616 Recovery = 105.20%								
Cr 267.716	132478.8	1049	ug/L	8.9	1049	ug/L	8.9	0.85%
QC value within limits for Cr 267.716 Recovery = 104.91%								
Cu 327.393	91824.4	1022	ug/L	11.7	1022	ug/L	11.7	1.15%
QC value within limits for Cu 327.393 Recovery = 102.17%								
Fe 273.955	483849.6	20950	ug/L	183.7	20950	ug/L	183.7	0.88%
QC value within limits for Fe 273.955 Recovery = 104.73%								
K 766.490	37595.3	20830	ug/L	294.3	20830	ug/L	294.3	1.41%
QC value within limits for K 766.490 Recovery = 104.16%								
Mg 285.213	836599.5	53210	ug/L	530.4	53210	ug/L	530.4	1.00%
QC value within limits for Mg 285.213 Recovery = 106.41%								
Mn 257.610	45969.6	1054	ug/L	2.5	1054	ug/L	2.5	0.24%
QC value within limits for Mn 257.610 Recovery = 105.36%								
Mo 202.031	40688.9	1049	ug/L	12.0	1049	ug/L	12.0	1.14%
QC value within limits for Mo 202.031 Recovery = 104.93%								
Na 589.592	276190.4	26160	ug/L	300.7	26160	ug/L	300.7	1.15%
QC value within limits for Na 589.592 Recovery = 104.65%								
Ni 231.604	58870.5	1063	ug/L	7.8	1063	ug/L	7.8	0.74%
QC value within limits for Ni 231.604 Recovery = 106.30%								
P 213.617	29177.9	5284	ug/L	47.0	5284	ug/L	47.0	0.89%
QC value within limits for P 213.617 Recovery = 105.68%								
Pb 220.353	13940.1	1063	ug/L	8.2	1063	ug/L	8.2	0.77%
QC value within limits for Pb 220.353 Recovery = 106.27%								
Sb 206.836	5459.9	1049	ug/L	6.5	1049	ug/L	6.5	0.62%
QC value within limits for Sb 206.836 Recovery = 104.88%								
Se 196.026	4409.7	1073	ug/L	10.4	1073	ug/L	10.4	0.97%
QC value within limits for Se 196.026 Recovery = 107.34%								
Sn 189.927	7290.6	1093	ug/L	15.2	1093	ug/L	15.2	1.39%
QC value within limits for Sn 189.927 Recovery = 109.27%								
Sr 421.552	877275.9	1045	ug/L	12.7	1045	ug/L	12.7	1.21%
QC value within limits for Sr 421.552 Recovery = 104.46%								
Ti 337.279	36849.2	1037	ug/L	5.5	1037	ug/L	5.5	0.53%
QC value within limits for Ti 337.279 Recovery = 103.69%								
Tl 190.801	6082.9	1048	ug/L	6.7	1048	ug/L	6.7	0.64%
QC value within limits for Tl 190.801 Recovery = 104.81%								
V 292.402	219758.8	1056	ug/L	9.8	1056	ug/L	9.8	0.92%
QC value within limits for V 292.402 Recovery = 105.61%								
Zn 206.200	81298.8	1087	ug/L	8.1	1087	ug/L	8.1	0.74%
QC value within limits for Zn 206.200 Recovery = 108.69%								

QC Failed. Continue with analysis.

Sequence No.: 31
Sample ID: CCB 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/28/12 6:26:10 PM
Data Type: Reprocessed on 11/29/12 2:04:31 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-148.8	-1.336	ug/L	0.8826	-1.336	ug/L	0.8826	66.05%
QC value less than the lower limit for Ag 338.289 Recovery = Not calculated								
Al 308.215	-1.4	-0.999	ug/L	3.8651	-0.999	ug/L	3.8651	387.02%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.8	1.178	ug/L	0.7857	1.178	ug/L	0.7857	66.72%
QC value within limits for As 188.979 Recovery = Not calculated								
B	33.6	11.41	ug/L	0.264	11.41	ug/L	0.264	2.31%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	3.3	0.022	ug/L	0.0352	0.022	ug/L	0.0352	157.38%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-267.1	-0.050	ug/L	0.0114	-0.050	ug/L	0.0114	22.53%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	56.7	5.624	ug/L	1.4027	5.624	ug/L	1.4027	24.94%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	13.0	0.042	ug/L	0.0846	0.042	ug/L	0.0846	199.97%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	21.0	0.360	ug/L	0.1670	0.360	ug/L	0.1670	46.42%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	14.9	0.117	ug/L	0.0808	0.117	ug/L	0.0808	68.97%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	35.3	0.393	ug/L	0.2556	0.393	ug/L	0.2556	65.08%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	16.0	0.716	ug/L	0.5349	0.716	ug/L	0.5349	74.71%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-121.8	-67.57	ug/L	58.027	-67.57	ug/L	58.027	85.88%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	17.9	1.142	ug/L	0.5461	1.142	ug/L	0.5461	47.82%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	22.6	0.519	ug/L	0.0403	0.519	ug/L	0.0403	7.77%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	8.9	0.229	ug/L	0.2730	0.229	ug/L	0.2730	119.38%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	511.6	48.53	ug/L	10.838	48.53	ug/L	10.838	22.33%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	2.7	0.048	ug/L	0.3793	0.048	ug/L	0.3793	789.70%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-3.3	-0.595	ug/L	1.0290	-0.595	ug/L	1.0290	173.02%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	6.1	0.461	ug/L	0.0415	0.461	ug/L	0.0415	9.00%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.7	0.709	ug/L	1.7972	0.709	ug/L	1.7972	253.51%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-10.1	-2.436	ug/L	2.4852	-2.436	ug/L	2.4852	102.03%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	4.7	0.699	ug/L	0.9304	0.699	ug/L	0.9304	133.19%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	252.1	0.300	ug/L	0.0361	0.300	ug/L	0.0361	12.02%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-10.8	-0.303	ug/L	0.1797	-0.303	ug/L	0.1797	59.30%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	1.7	0.291	ug/L	0.8209	0.291	ug/L	0.8209	282.52%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-53.2	-0.246	ug/L	0.6976	-0.246	ug/L	0.6976	283.03%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-36.3	-0.480	ug/L	0.0389	-0.480	ug/L	0.0389	8.10%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 42
Sample ID: CCV2 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 11/28/12 7:25:53 PM
Data Type: Reprocessed on 11/29/12 2:04:43 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	44555.1	400.2	ug/L	3.39	400.2	ug/L	3.39	0.85%
QC value within limits for Ag 338.289 Recovery = 106.71%								
Al 308.215	23588.9	16390	ug/L	115.5	16390	ug/L	115.5	0.70%
QC value within limits for Al 308.215 Recovery = 109.24%								
As 188.979	3426.6	833.2	ug/L	1.45	833.2	ug/L	1.45	0.17%
QC value greater than the upper limit for As 188.979 Recovery = 111.09%								
B	2400.0	865.4	ug/L	15.47	865.4	ug/L	15.47	1.79%
QC value greater than the upper limit for B Recovery = 115.39%								
Ba 233.527	118513.6	813.0	ug/L	8.01	813.0	ug/L	8.01	0.99%
QC value within limits for Ba 233.527 Recovery = 108.40%								
Be 313.107	4439265.2	838.5	ug/L	11.40	838.5	ug/L	11.40	1.36%
QC value greater than the upper limit for Be 313.107 Recovery = 111.80%								
Ca 315.887	424717.8	42120	ug/L	831.4	42120	ug/L	831.4	1.97%
QC value greater than the upper limit for Ca 315.887 Recovery = 112.32%								
Cd 214.440	259208.5	839.1	ug/L	8.26	839.1	ug/L	8.26	0.98%
QC value greater than the upper limit for Cd 214.440 Recovery = 111.87%								
Co 228.616	48679.3	830.5	ug/L	8.33	830.5	ug/L	8.33	1.00%
QC value greater than the upper limit for Co 228.616 Recovery = 110.74%								
Cr 267.716	103795.8	822.0	ug/L	6.54	822.0	ug/L	6.54	0.80%
QC value within limits for Cr 267.716 Recovery = 109.60%								
Cu 327.393	72641.7	808.2	ug/L	10.13	808.2	ug/L	10.13	1.25%
QC value within limits for Cu 327.393 Recovery = 107.77%								
Fe 273.955	378818.8	16400	ug/L	163.0	16400	ug/L	163.0	0.99%
QC value within limits for Fe 273.955 Recovery = 109.33%								
K 766.490	29737.4	16480	ug/L	288.1	16480	ug/L	288.1	1.75%
QC value within limits for K 766.490 Recovery = 109.86%								
Mg 285.213	653277.2	41550	ug/L	717.2	41550	ug/L	717.2	1.73%
QC value greater than the upper limit for Mg 285.213 Recovery = 110.79%								
Mn 257.610	36399.1	834.3	ug/L	8.31	834.3	ug/L	8.31	1.00%
QC value greater than the upper limit for Mn 257.610 Recovery = 111.23%								
Mo 202.031	31929.9	823.4	ug/L	7.26	823.4	ug/L	7.26	0.88%
QC value within limits for Mo 202.031 Recovery = 109.78%								
Na 589.592	219788.6	20820	ug/L	379.3	20820	ug/L	379.3	1.82%
QC value greater than the upper limit for Na 589.592 Recovery = 111.04%								
Ni 231.604	46368.2	837.3	ug/L	7.43	837.3	ug/L	7.43	0.89%
QC value greater than the upper limit for Ni 231.604 Recovery = 111.63%								
P 213.617	22968.0	4160	ug/L	51.1	4160	ug/L	51.1	1.23%
QC value greater than the upper limit for P 213.617 Recovery = 110.92%								
Pb 220.353	11023.3	840.3	ug/L	1.40	840.3	ug/L	1.40	0.17%
QC value greater than the upper limit for Pb 220.353 Recovery = 112.04%								
Sb 206.836	4349.0	835.4	ug/L	1.57	835.4	ug/L	1.57	0.19%
QC value greater than the upper limit for Sb 206.836 Recovery = 111.39%								
Se 196.026	3489.0	849.2	ug/L	6.26	849.2	ug/L	6.26	0.74%
QC value greater than the upper limit for Se 196.026 Recovery = 113.22%								
Sn 189.927	5759.9	863.2	ug/L	6.08	863.2	ug/L	6.08	0.70%
QC value greater than the upper limit for Sn 189.927 Recovery = 115.10%								
Sr 421.552	692542.6	824.7	ug/L	15.98	824.7	ug/L	15.98	1.94%
QC value within limits for Sr 421.552 Recovery = 109.96%								
Ti 337.279	29432.4	828.2	ug/L	10.73	828.2	ug/L	10.73	1.30%
QC value greater than the upper limit for Ti 337.279 Recovery = 110.42%								
Tl 190.801	4838.6	833.7	ug/L	5.89	833.7	ug/L	5.89	0.71%
QC value greater than the upper limit for Tl 190.801 Recovery = 111.16%								
V 292.402	172276.5	827.9	ug/L	9.89	827.9	ug/L	9.89	1.19%
QC value within limits for V 292.402 Recovery = 110.39%								
Zn 206.200	63522.7	849.2	ug/L	7.19	849.2	ug/L	7.19	0.85%
QC value greater than the upper limit for Zn 206.200 Recovery = 113.23%								

QC Failed. Continue with analysis.

Sequence No.: 43
Sample ID: CCB 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/28/12 7:32:36 PM
Data Type: Reprocessed on 11/29/12 2:04:44 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-108.3	-0.972	ug/L	0.4725	-0.972	ug/L	0.4725	48.60%
QC value less than the lower limit for Ag 338.289 Recovery = Not calculated								
Al 308.215	9.2	6.375	ug/L	4.8569	6.375	ug/L	4.8569	76.19%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	2.4	0.582	ug/L	0.8465	0.582	ug/L	0.8465	145.37%
QC value within limits for As 188.979 Recovery = Not calculated								
B	28.0	9.519	ug/L	0.5586	9.519	ug/L	0.5586	5.87%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	2.2	0.014	ug/L	0.0479	0.014	ug/L	0.0479	342.96%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-103.7	-0.020	ug/L	0.0276	-0.020	ug/L	0.0276	141.16%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	88.3	8.748	ug/L	1.0928	8.748	ug/L	1.0928	12.49%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	14.0	0.046	ug/L	0.0774	0.046	ug/L	0.0774	169.82%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	24.1	0.413	ug/L	0.3134	0.413	ug/L	0.3134	75.91%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	12.3	0.097	ug/L	0.0574	0.097	ug/L	0.0574	58.88%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-29.5	-0.328	ug/L	0.2817	-0.328	ug/L	0.2817	85.78%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	28.0	1.215	ug/L	0.1496	1.215	ug/L	0.1496	12.31%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	112.6	62.48	ug/L	22.846	62.48	ug/L	22.846	36.56%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	30.8	1.958	ug/L	0.3481	1.958	ug/L	0.3481	17.78%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	5.7	0.131	ug/L	0.1504	0.131	ug/L	0.1504	114.75%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	26.6	0.684	ug/L	0.2071	0.684	ug/L	0.2071	30.29%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	1559.7	147.8	ug/L	5.13	147.8	ug/L	5.13	3.47%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-7.8	-0.142	ug/L	0.0549	-0.142	ug/L	0.0549	38.69%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	0.5	0.094	ug/L	0.3448	0.094	ug/L	0.3448	367.56%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-4.8	-0.363	ug/L	0.6951	-0.363	ug/L	0.6951	191.43%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.0	0.583	ug/L	1.0403	0.583	ug/L	1.0403	178.31%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	0.1	0.010	ug/L	2.0899	0.010	ug/L	2.0899	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	0.7	0.110	ug/L	0.1881	0.110	ug/L	0.1881	170.41%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	138.3	0.165	ug/L	0.1835	0.165	ug/L	0.1835	111.48%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	5.3	0.148	ug/L	0.6950	0.148	ug/L	0.6950	469.39%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-0.2	-0.028	ug/L	0.4310	-0.028	ug/L	0.4310	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-4.5	-0.011	ug/L	0.5268	-0.011	ug/L	0.5268	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-56.4	-0.743	ug/L	0.0547	-0.743	ug/L	0.0547	7.37%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 48
Sample ID: CCV1 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/28/12 8:00:52 PM
Data Type: Reprocessed on 11/29/12 2:04:48 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	59800.3	537.1	ug/L	10.29	537.1	ug/L	10.29	1.92%
QC value within limits for Ag 338.289 Recovery = 107.42%								
Al 308.215	32207.5	22370	ug/L	292.2	22370	ug/L	292.2	1.31%
QC value greater than the upper limit for Al 308.215 Recovery = 111.87%								
As 188.979	4663.2	1134	ug/L	5.4	1134	ug/L	5.4	0.47%
QC value greater than the upper limit for As 188.979 Recovery = 113.39%								
B	3234.8	1166	ug/L	15.4	1166	ug/L	15.4	1.32%
QC value greater than the upper limit for B Recovery = 116.60%								
Ba 233.527	158945.7	1090	ug/L	15.9	1090	ug/L	15.9	1.46%
QC value within limits for Ba 233.527 Recovery = 109.04%								
Be 313.107	5993106.9	1132	ug/L	11.7	1132	ug/L	11.7	1.03%
QC value greater than the upper limit for Be 313.107 Recovery = 113.20%								
Ca 315.887	581284.2	57640	ug/L	713.0	57640	ug/L	713.0	1.24%
QC value greater than the upper limit for Ca 315.887 Recovery = 115.29%								
Cd 214.440	346504.5	1122	ug/L	15.6	1122	ug/L	15.6	1.39%
QC value greater than the upper limit for Cd 214.440 Recovery = 112.16%								
Co 228.616	65133.9	1111	ug/L	17.7	1111	ug/L	17.7	1.59%
QC value greater than the upper limit for Co 228.616 Recovery = 111.12%								
Cr 267.716	139771.8	1107	ug/L	15.3	1107	ug/L	15.3	1.38%
QC value greater than the upper limit for Cr 267.716 Recovery = 110.69%								
Cu 327.393	98261.3	1093	ug/L	19.1	1093	ug/L	19.1	1.75%
QC value within limits for Cu 327.393 Recovery = 109.33%								
Fe 273.955	507714.7	21980	ug/L	321.5	21980	ug/L	321.5	1.46%
QC value within limits for Fe 273.955 Recovery = 109.89%								
K 766.490	40906.5	22670	ug/L	274.5	22670	ug/L	274.5	1.21%
QC value greater than the upper limit for K 766.490 Recovery = 113.34%								
Mg 285.213	889521.0	56570	ug/L	681.3	56570	ug/L	681.3	1.20%
QC value greater than the upper limit for Mg 285.213 Recovery = 113.15%								
Mn 257.610	49344.3	1131	ug/L	16.7	1131	ug/L	16.7	1.48%
QC value greater than the upper limit for Mn 257.610 Recovery = 113.09%								
Mo 202.031	42868.6	1105	ug/L	16.3	1105	ug/L	16.3	1.48%
QC value greater than the upper limit for Mo 202.031 Recovery = 110.55%								
Na 589.592	298788.8	28300	ug/L	373.2	28300	ug/L	373.2	1.32%
QC value greater than the upper limit for Na 589.592 Recovery = 113.21%								
Ni 231.604	61826.9	1116	ug/L	16.8	1116	ug/L	16.8	1.51%
QC value greater than the upper limit for Ni 231.604 Recovery = 111.64%								
P 213.617	30988.0	5612	ug/L	90.8	5612	ug/L	90.8	1.62%
QC value greater than the upper limit for P 213.617 Recovery = 112.24%								
Pb 220.353	14958.6	1140	ug/L	3.3	1140	ug/L	3.3	0.29%
QC value greater than the upper limit for Pb 220.353 Recovery = 114.03%								
Sb 206.836	5899.6	1133	ug/L	4.6	1133	ug/L	4.6	0.40%
QC value greater than the upper limit for Sb 206.836 Recovery = 113.33%								
Se 196.026	4754.8	1157	ug/L	5.1	1157	ug/L	5.1	0.44%
QC value greater than the upper limit for Se 196.026 Recovery = 115.70%								
Sn 189.927	7977.7	1196	ug/L	14.6	1196	ug/L	14.6	1.22%
QC value greater than the upper limit for Sn 189.927 Recovery = 119.56%								
Sr 421.552	948327.2	1129	ug/L	14.7	1129	ug/L	14.7	1.30%
QC value greater than the upper limit for Sr 421.552 Recovery = 112.93%								
Ti 337.279	39904.2	1123	ug/L	16.0	1123	ug/L	16.0	1.42%
QC value greater than the upper limit for Ti 337.279 Recovery = 112.28%								
Tl 190.801	6524.7	1124	ug/L	1.6	1124	ug/L	1.6	0.15%
QC value greater than the upper limit for Tl 190.801 Recovery = 112.42%								
V 292.402	232695.2	1118	ug/L	16.2	1118	ug/L	16.2	1.45%
QC value greater than the upper limit for V 292.402 Recovery = 111.82%								
Zn 206.200	85143.0	1138	ug/L	15.5	1138	ug/L	15.5	1.36%
QC value greater than the upper limit for Zn 206.200 Recovery = 113.84%								

QC Failed. Continue with analysis.

Sequence No.: 49
Sample ID: CCB 121128EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/28/12 8:08:38 PM
Data Type: Reprocessed on 11/29/12 2:04:49 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121128EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-208.4	-1.872	ug/L	0.7503	-1.872	ug/L	0.7503	40.08%
QC value less than the lower limit for Ag 338.289 Recovery = Not calculated								
Al 308.215	9.6	6.607	ug/L	2.9776	6.607	ug/L	2.9776	45.07%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	-0.2	-0.045	ug/L	0.7340	-0.045	ug/L	0.7340	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B	36.5	12.40	ug/L	1.246	12.40	ug/L	1.246	10.05%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	22.7	0.156	ug/L	0.0603	0.156	ug/L	0.0603	38.56%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-322.3	-0.061	ug/L	0.0113	-0.061	ug/L	0.0113	18.55%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	93.5	9.262	ug/L	1.2504	9.262	ug/L	1.2504	13.50%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	12.9	0.042	ug/L	0.0823	0.042	ug/L	0.0823	195.88%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	0.9	0.017	ug/L	0.3556	0.017	ug/L	0.3556	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	15.1	0.119	ug/L	0.1451	0.119	ug/L	0.1451	121.70%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-48.3	-0.537	ug/L	0.5781	-0.537	ug/L	0.5781	107.59%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	15.9	0.712	ug/L	1.3699	0.712	ug/L	1.3699	192.43%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	96.7	53.68	ug/L	56.604	53.68	ug/L	56.604	105.45%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	18.8	1.194	ug/L	0.7713	1.194	ug/L	0.7713	64.61%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-0.5	-0.012	ug/L	0.1071	-0.012	ug/L	0.1071	870.02%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	30.1	0.774	ug/L	0.2033	0.774	ug/L	0.2033	26.27%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	1339.3	127.0	ug/L	8.73	127.0	ug/L	8.73	6.88%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-14.8	-0.267	ug/L	0.0767	-0.267	ug/L	0.0767	28.66%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	4.2	0.754	ug/L	0.9948	0.754	ug/L	0.9948	131.87%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-1.5	-0.117	ug/L	0.1770	-0.117	ug/L	0.1770	151.21%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	8.5	1.639	ug/L	1.1986	1.639	ug/L	1.1986	73.13%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	2.6	0.630	ug/L	1.0875	0.630	ug/L	1.0875	172.62%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-2.2	-0.335	ug/L	0.5994	-0.335	ug/L	0.5994	178.97%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	13.6	0.016	ug/L	0.2396	0.016	ug/L	0.2396	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-0.4	-0.011	ug/L	0.1986	-0.011	ug/L	0.1986	>999.9%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	1.4	0.239	ug/L	0.6565	0.239	ug/L	0.6565	274.81%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-63.8	-0.290	ug/L	0.4530	-0.290	ug/L	0.4530	156.34%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-40.7	-0.536	ug/L	0.2002	-0.536	ug/L	0.2002	37.37%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 121211A6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1 Autosampler Location: 1
Sample ID: CalBlk 121211EA I:PB O:EA Date Collected: 12/11/12 10:06:13 AM
Analyst: Data Type: Reprocessed on 12/12/12 9:39:28 AM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CalBlk 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-195.6	148.70	76.00%	[0.00]	ug/L
Al 308.215	131.1	3.98	3.04%	[0.00]	ug/L
As 188.979	-7.2	3.21	44.45%	[0.00]	ug/L
B	6.1	6.78	111.31%	[0.00]	ug/L
Ba 233.527	114.0	9.23	8.09%	[0.00]	ug/L
Be 313.107	2378.0	39.73	1.67%	[0.00]	ug/L
Ca 315.887	-449.2	30.67	6.83%	[0.00]	ug/L
Cd 214.440	424.9	26.38	6.21%	[0.00]	ug/L
Co 228.616	55.4	6.93	12.50%	[0.00]	ug/L
Cr 267.716	670.3	8.91	1.33%	[0.00]	ug/L
Cu 327.393	-34.3	102.94	299.86%	[0.00]	ug/L
Fe 273.955	182.0	23.89	13.13%	[0.00]	ug/L
K 766.490	-346.2	83.64	24.16%	[0.00]	ug/L
Mg 285.213	-115.3	3.93	3.41%	[0.00]	ug/L
Mn 257.610	-47.3	11.19	23.67%	[0.00]	ug/L
Mo 202.031	176.7	14.07	7.96%	[0.00]	ug/L
Na 589.592	-70.2	126.70	180.55%	[0.00]	ug/L
Ni 231.604	-190.4	14.42	7.57%	[0.00]	ug/L
P 213.617	49.5	7.18	14.49%	[0.00]	ug/L
Pb 220.353	-32.4	4.86	15.01%	[0.00]	ug/L
Sb 206.836	0.3	2.59	803.88%	[0.00]	ug/L
Se 196.026	-20.1	5.51	27.45%	[0.00]	ug/L
Sn 189.927	-15.7	1.21	7.72%	[0.00]	ug/L
Sr 421.552	907.2	180.17	19.86%	[0.00]	ug/L
Ti 337.279	-400.2	10.55	2.64%	[0.00]	ug/L
Tl 190.801	-10.4	1.78	17.08%	[0.00]	ug/L
V 292.402	-718.9	116.90	16.26%	[0.00]	ug/L
Zn 206.200	-366.2	8.19	2.24%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 12/11/12 10:10:33 AM
Data Type: Reprocessed on 12/12/12 9:39:29 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	184.1	76.97	41.80%	[1.00]	ug/L
Al 308.215	160.0	18.08	11.30%	[100.00]	ug/L
As 188.979	21.9	3.04	13.86%	[3.50]	ug/L
B	215.0	8.78	4.09%	[50.00]	ug/L
Ba 233.527	847.4	5.50	0.65%	[5.00]	ug/L
Be 313.107	12740.0	91.05	0.71%	[2.00]	ug/L
Ca 315.887	1227.1	28.27	2.30%	[100.00]	ug/L
Cd 214.440	1915.9	33.10	1.73%	[5.00]	ug/L
Co 228.616	372.2	6.11	1.64%	[5.00]	ug/L
Cr 267.716	731.6	9.08	1.24%	[5.00]	ug/L
Cu 327.393	449.8	68.81	15.30%	[5.00]	ug/L
Fe 273.955	1372.3	16.53	1.20%	[50.00]	ug/L
K 766.490	2166.2	46.25	2.14%	[1000.00]	ug/L
Mg 285.213	1012.4	11.21	1.11%	[50]	ug/L
Mn 257.610	257.0	9.33	3.63%	[5.00]	ug/L
Mo 202.031	208.2	7.90	3.79%	[5.00]	ug/L
Na 589.592	13195.3	223.20	1.69%	[1000.00]	ug/L
Ni 231.604	367.1	3.48	0.95%	[5.00]	ug/L
P 213.617	172.5	7.64	4.43%	[25.00]	ug/L
Pb 220.353	40.6	2.73	6.72%	[3.00]	ug/L
Sb 206.836	31.9	3.46	10.83%	[5.00]	ug/L
Se 196.026	31.4	17.07	54.41%	[5.00]	ug/L
Sn 189.927	35.5	1.57	4.44%	[5.00]	ug/L
Sr 421.552	5103.9	87.91	1.72%	[5.00]	ug/L
Ti 337.279	215.4	7.79	3.62%	[5.00]	ug/L
Tl 190.801	32.0	2.37	7.40%	[5.00]	ug/L
V 292.402	1195.9	23.62	1.98%	[5.00]	ug/L
Zn 206.200	1942.0	25.53	1.31%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/11/12 10:14:57 AM
Data Type: Reprocessed on 12/12/12 9:39:30 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	64193.8	789.04	1.23%	[500.0]	ug/L
Al 308.215	33974.7	247.16	0.73%	[20000.00]	ug/L
As 188.979	5281.5	9.82	0.19%	[1000.00]	ug/L
B	4308.2	50.11	1.16%	[1000.00]	ug/L
Ba 233.527	164940.6	1003.64	0.61%	[1000.00]	ug/L
Be 313.107	6475843.8	143345.64	2.21%	[1000.00]	ug/L
Ca 315.887	607307.4	6092.67	1.00%	[50000]	ug/L
Cd 214.440	366460.7	2616.80	0.71%	[1000.00]	ug/L
Co 228.616	69896.4	315.72	0.45%	[1000.00]	ug/L
Cr 267.716	143176.7	909.26	0.64%	[1000.00]	ug/L
Cu 327.393	91332.9	1091.85	1.20%	[1000.00]	ug/L
Fe 273.955	526911.3	3530.61	0.67%	[20000]	ug/L
K 766.490	49408.8	407.47	0.82%	[20000]	ug/L
Mg 285.213	1004894.9	9890.44	0.98%	[50000]	ug/L
Mn 257.610	54488.8	386.55	0.71%	[1000.00]	ug/L
Mo 202.031	43229.5	282.64	0.65%	[1000.00]	ug/L
Na 589.592	333662.2	3614.57	1.08%	[25000]	ug/L
Ni 231.604	64948.9	455.86	0.70%	[1000.00]	ug/L
P 213.617	35185.4	260.18	0.74%	[5000]	ug/L
Pb 220.353	14817.1	24.79	0.17%	[1000.00]	ug/L
Sb 206.836	6313.5	21.87	0.35%	[1000.00]	ug/L
Se 196.026	5464.3	21.77	0.40%	[1000.00]	ug/L
Sn 189.927	7197.5	31.00	0.43%	[1000.00]	ug/L
Sr 421.552	1016909.2	11988.52	1.18%	[1000.00]	ug/L
Ti 337.279	44360.4	342.66	0.77%	[1000.00]	ug/L
Tl 190.801	6744.4	13.73	0.20%	[1000.00]	ug/L
V 292.402	237496.2	1370.53	0.58%	[1000.00]	ug/L
Zn 206.200	89971.0	626.65	0.70%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 12/11/12 10:18:33 AM
Data Type: Reprocessed on 12/12/12 9:39:31 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	127228.4	1307.85	1.03%	[1000.00]	ug/L
Al 308.215	66621.8	463.45	0.70%	[40000.00]	ug/L
As 188.979	10441.5	79.84	0.76%	[2000.00]	ug/L
B	8510.7	62.63	0.74%	[2000.00]	ug/L
Ba 233.527	322087.9	2528.24	0.78%	[2000.00]	ug/L
Be 313.107	12368905.8	15428.81	0.12%	[2000.00]	ug/L
Ca 315.887	1188745.9	13543.19	1.14%	[100000.0]	ug/L
Cd 214.440	702601.8	5831.12	0.83%	[2000.00]	ug/L
Co 228.616	136098.1	1167.73	0.86%	[2000.00]	ug/L
Cr 267.716	278338.1	1994.43	0.72%	[2000.00]	ug/L
Cu 327.393	182334.2	1399.06	0.77%	[2000.00]	ug/L
Fe 273.955	1023788.5	7875.11	0.77%	[40000]	ug/L
K 766.490	102950.3	718.87	0.70%	[40000]	ug/L
Mg 285.213	1947093.1	16824.23	0.86%	[100000]	ug/L
Mn 257.610	105878.5	833.75	0.79%	[2000.00]	ug/L
Mo 202.031	84506.7	768.51	0.91%	[2000.00]	ug/L
Na 589.592	658783.7	6715.38	1.02%	[50000]	ug/L
Ni 231.604	125437.3	1276.70	1.02%	[2000.00]	ug/L
P 213.617	69240.1	573.67	0.83%	[10000]	ug/L
Pb 220.353	28906.9	168.51	0.58%	[2000.00]	ug/L
Sb 206.836	12521.9	72.40	0.58%	[2000.00]	ug/L
Se 196.026	10694.7	47.18	0.44%	[2000.00]	ug/L
Sn 189.927	14128.9	186.80	1.32%	[2000.00]	ug/L
Sr 421.552	2006476.9	20518.22	1.02%	[2000.00]	ug/L
Ti 337.279	87134.3	712.01	0.82%	[2000.00]	ug/L
Tl 190.801	13214.8	82.63	0.63%	[2000.00]	ug/L
V 292.402	466907.2	4502.63	0.96%	[2000.00]	ug/L
Zn 206.200	172148.0	1676.97	0.97%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	127.5	0.00000	0.999993	
Al 308.215	3	Lin Thru 0	0.0	1.672	0.00000	0.999968	
As 188.979	3	Lin Thru 0	0.0	5.233	0.00000	0.999989	
B	3	Lin Thru 0	0.0	4.266	0.00000	0.999988	
Ba 233.527	3	Lin Thru 0	0.0	161.8	0.00000	0.999954	
Be 313.107	3	Lin Thru 0	0.0	6243	0.00000	0.999826	
Ca 315.887	3	Lin Thru 0	0.0	11.94	0.00000	0.999962	
Cd 214.440	3	Lin Thru 0	0.0	354.3	0.00000	0.999854	
Co 228.616	3	Lin Thru 0	0.0	68.42	0.00000	0.999942	
Cr 267.716	3	Lin Thru 0	0.0	140.0	0.00000	0.999934	
Cu 327.393	3	Lin Thru 0	0.0	91.20	0.00000	1.000000	
Fe 273.955	3	Lin Thru 0	0.0	25.74	0.00000	0.999932	
K 766.490	3	Lin Thru 0	0.0	2.553	0.00000	0.999863	
Mg 285.213	3	Lin Thru 0	0.0	19.60	0.00000	0.999918	
Mn 257.610	3	Lin Thru 0	0.0	53.25	0.00000	0.999932	
Mo 202.031	3	Lin Thru 0	0.0	42.45	0.00000	0.999958	
Na 589.592	3	Lin Thru 0	0.0	13.21	0.00000	0.999987	
Ni 231.604	3	Lin Thru 0	0.0	63.16	0.00000	0.999900	
P 213.617	3	Lin Thru 0	0.0	6.947	0.00000	0.999979	
Pb 220.353	3	Lin Thru 0	0.0	14.53	0.00000	0.999950	
Sb 206.836	3	Lin Thru 0	0.0	6.271	0.00000	0.999994	
Se 196.026	3	Lin Thru 0	0.0	5.371	0.00000	0.999962	
Sn 189.927	3	Lin Thru 0	0.0	7.091	0.00000	0.999972	
Sr 421.552	3	Lin Thru 0	0.0	1006	0.00000	0.999985	
Ti 337.279	3	Lin Thru 0	0.0	43.73	0.00000	0.999974	
Tl 190.801	3	Lin Thru 0	0.0	6.635	0.00000	0.999966	

V 292.402	3	Lin Thru 0	0.0	234.3	0.00000	0.999976
Zn 206.200	3	Lin Thru 0	0.0	86.85	0.00000	0.999838

Sequence No.: 5
Sample ID: ICV 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 12/11/12 10:26:14 AM
Data Type: Reprocessed on 12/12/12 9:39:32 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65715.4	515.6	ug/L	7.45	515.6	ug/L	7.45	1.44%
QC value within limits for Ag 338.289 Recovery = 103.12%								
Al 308.215	43661.5	26120	ug/L	368.2	26120	ug/L	368.2	1.41%
QC value within limits for Al 308.215 Recovery = 104.49%								
As 188.979	5158.6	985.8	ug/L	4.44	985.8	ug/L	4.44	0.45%
QC value within limits for As 188.979 Recovery = 98.58%								
B	4233.6	1076	ug/L	16.5	1076	ug/L	16.5	1.53%
QC value within limits for B Recovery = 107.58%								
Ba 233.527	163838.5	997.3	ug/L	9.50	997.3	ug/L	9.50	0.95%
QC value within limits for Ba 233.527 Recovery = 99.73%								
Be 313.107	6396963.0	1025	ug/L	14.2	1025	ug/L	14.2	1.38%
QC value within limits for Be 313.107 Recovery = 102.47%								
Ca 315.887	312757.8	26190	ug/L	151.9	26190	ug/L	151.9	0.58%
QC value within limits for Ca 315.887 Recovery = 104.74%								
Cd 214.440	365211.8	1030	ug/L	7.8	1030	ug/L	7.8	0.76%
QC value within limits for Cd 214.440 Recovery = 103.00%								
Co 228.616	70410.7	1028	ug/L	8.8	1028	ug/L	8.8	0.86%
QC value within limits for Co 228.616 Recovery = 102.82%								
Cr 267.716	143607.2	1027	ug/L	8.8	1027	ug/L	8.8	0.86%
QC value within limits for Cr 267.716 Recovery = 102.71%								
Cu 327.393	89650.1	983.0	ug/L	14.23	983.0	ug/L	14.23	1.45%
QC value within limits for Cu 327.393 Recovery = 98.30%								
Fe 273.955	688114.6	26640	ug/L	241.5	26640	ug/L	241.5	0.91%
QC value within limits for Fe 273.955 Recovery = 106.58%								
K 766.490	61786.2	24190	ug/L	432.0	24190	ug/L	432.0	1.79%
QC value within limits for K 766.490 Recovery = 96.76%								
Mg 285.213	515668.3	26340	ug/L	109.2	26340	ug/L	109.2	0.41%
QC value within limits for Mg 285.213 Recovery = 105.38%								
Mn 257.610	54925.9	1032	ug/L	16.1	1032	ug/L	16.1	1.56%
QC value within limits for Mn 257.610 Recovery = 103.19%								
Mo 202.031	42947.3	1015	ug/L	11.7	1015	ug/L	11.7	1.16%
QC value within limits for Mo 202.031 Recovery = 101.45%								
Na 589.592	332983.9	25190	ug/L	145.6	25190	ug/L	145.6	0.58%
QC value within limits for Na 589.592 Recovery = 100.75%								
Ni 231.604	66597.2	1052	ug/L	9.3	1052	ug/L	9.3	0.88%
QC value within limits for Ni 231.604 Recovery = 105.23%								
P 213.617	33306.0	4795	ug/L	44.9	4795	ug/L	44.9	0.94%
QC value within limits for P 213.617 Recovery = 95.89%								
Pb 220.353	15175.4	1045	ug/L	2.0	1045	ug/L	2.0	0.19%
QC value within limits for Pb 220.353 Recovery = 104.47%								
Sb 206.836	6539.9	1043	ug/L	4.6	1043	ug/L	4.6	0.44%
QC value within limits for Sb 206.836 Recovery = 104.28%								
Se 196.026	5413.3	1021	ug/L	5.4	1021	ug/L	5.4	0.53%
QC value within limits for Se 196.026 Recovery = 102.10%								
Sn 189.927	4151.0	585.4	ug/L	1.00	585.4	ug/L	1.00	0.17%
QC value greater than the upper limit for Sn 189.927 Recovery = 117.08%								
Sr 421.552	974239.5	968.2	ug/L	5.29	968.2	ug/L	5.29	0.55%
QC value within limits for Sr 421.552 Recovery = 96.82%								
Ti 337.279	44067.2	1007	ug/L	23.3	1007	ug/L	23.3	2.31%
QC value within limits for Ti 337.279 Recovery = 100.73%								
Tl 190.801	6770.7	1020	ug/L	2.3	1020	ug/L	2.3	0.23%
QC value within limits for Tl 190.801 Recovery = 102.05%								
V 292.402	237723.5	1031	ug/L	11.0	1031	ug/L	11.0	1.06%
QC value within limits for V 292.402 Recovery = 103.13%								
Zn 206.200	91435.6	1062	ug/L	8.6	1062	ug/L	8.6	0.81%
QC value within limits for Zn 206.200 Recovery = 106.22%								

QC Failed. Continue with analysis.

Sequence No.: 6
Sample ID: ICB 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/11/12 10:30:50 AM
Data Type: Reprocessed on 12/12/12 9:39:33 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	85.3	0.669	ug/L	0.6316	0.669	ug/L	0.6316	94.39%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	5.9	3.536	ug/L	7.5576	3.536	ug/L	7.5576	213.71%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.1	1.359	ug/L	0.3508	1.359	ug/L	0.3508	25.82%
QC value within limits for As 188.979 Recovery = Not calculated								
B	41.1	9.639	ug/L	1.6002	9.639	ug/L	1.6002	16.60%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	15.8	0.095	ug/L	0.0146	0.095	ug/L	0.0146	15.28%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-196.1	-0.031	ug/L	0.0096	-0.031	ug/L	0.0096	30.52%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	22.2	1.854	ug/L	1.6557	1.854	ug/L	1.6557	89.33%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	18.6	0.052	ug/L	0.0600	0.052	ug/L	0.0600	114.53%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	8.8	0.129	ug/L	0.0470	0.129	ug/L	0.0470	36.60%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-2.6	-0.019	ug/L	0.0646	-0.019	ug/L	0.0646	337.83%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	57.8	0.634	ug/L	1.1842	0.634	ug/L	1.1842	186.77%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	56.7	2.234	ug/L	0.6876	2.234	ug/L	0.6876	30.77%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-30.9	-12.09	ug/L	37.956	-12.09	ug/L	37.956	313.87%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	7.7	0.398	ug/L	0.2561	0.398	ug/L	0.2561	64.42%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-8.6	-0.162	ug/L	0.0950	-0.162	ug/L	0.0950	58.78%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	5.1	0.119	ug/L	0.2185	0.119	ug/L	0.2185	182.93%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	579.7	43.89	ug/L	5.684	43.89	ug/L	5.684	12.95%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	18.7	0.296	ug/L	0.0698	0.296	ug/L	0.0698	23.62%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-4.2	-0.607	ug/L	0.1056	-0.607	ug/L	0.1056	17.39%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-2.8	-0.192	ug/L	0.1867	-0.192	ug/L	0.1867	97.05%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	7.8	1.250	ug/L	0.1645	1.250	ug/L	0.1645	13.17%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	4.0	0.742	ug/L	1.1446	0.742	ug/L	1.1446	154.19%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	19.6	2.769	ug/L	0.8393	2.769	ug/L	0.8393	30.31%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	148.3	0.147	ug/L	0.1506	0.147	ug/L	0.1506	102.23%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	6.1	0.138	ug/L	0.4227	0.138	ug/L	0.4227	305.42%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	7.5	1.138	ug/L	0.6937	1.138	ug/L	0.6937	60.98%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-98.0	-0.417	ug/L	0.1747	-0.417	ug/L	0.1747	41.84%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-56.5	-0.650	ug/L	0.0961	-0.650	ug/L	0.0961	14.77%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 12/11/12 10:39:37 AM
Data Type: Reprocessed on 12/12/12 9:39:36 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-23.3	-0.183	ug/L	0.2642	-0.183	ug/L	0.2642	144.60%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	316004.5	189000	ug/L	1357.8	189000	ug/L	1357.8	0.72%
QC value within limits for Al 308.215 Recovery = 94.50%								
As 188.979	2.8	0.537	ug/L	1.2657	0.537	ug/L	1.2657	235.51%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2098.3	64.88	ug/L	22.334	64.88	ug/L	22.334	34.42%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	16953.3	0.124	ug/L	2.9051	0.124	ug/L	2.9051	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-751.7	-0.120	ug/L	0.0067	-0.120	ug/L	0.0067	5.58%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2277488.6	190700	ug/L	1786.3	190700	ug/L	1786.3	0.94%
QC value within limits for Ca 315.887 Recovery = 95.36%								
Cd 214.440	3222.4	0.061	ug/L	0.0591	0.061	ug/L	0.0591	96.24%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	295.5	0.287	ug/L	0.0689	0.287	ug/L	0.0689	24.05%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-62.6	0.092	ug/L	0.2229	0.092	ug/L	0.2229	242.77%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-144.6	-1.586	ug/L	0.2311	-1.586	ug/L	0.2311	14.57%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4532721.4	176000	ug/L	724.8	176000	ug/L	724.8	0.41%
QC value within limits for Fe 273.955 Recovery = 88.02%								
K 766.490	259.2	-10.46	ug/L	52.253	-10.46	ug/L	52.253	499.52%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3657555.5	186800	ug/L	1383.6	186800	ug/L	1383.6	0.74%
QC value within limits for Mg 285.213 Recovery = 93.42%								
Mn 257.610	-174.7	-2.390	ug/L	0.3505	-2.390	ug/L	0.3505	14.66%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-564.6	0.032	ug/L	0.1612	0.032	ug/L	0.1612	500.60%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	466.9	-8.853	ug/L	8.1044	-8.853	ug/L	8.1044	91.55%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	29.7	0.267	ug/L	0.2198	0.267	ug/L	0.2198	82.26%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-42.8	-6.162	ug/L	1.6248	-6.162	ug/L	1.6248	26.37%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	4.6	0.314	ug/L	0.6946	0.314	ug/L	0.6946	221.15%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-4.8	-0.760	ug/L	0.3608	-0.760	ug/L	0.3608	47.48%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-476.5	4.206	ug/L	2.2766	4.206	ug/L	2.2766	54.13%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	1.4	0.202	ug/L	1.9232	0.202	ug/L	1.9232	951.20%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2134.8	-0.009	ug/L	0.1226	-0.009	ug/L	0.1226	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	109.9	-0.828	ug/L	1.1108	-0.828	ug/L	1.1108	134.14%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-5.3	-0.804	ug/L	1.2866	-0.804	ug/L	1.2866	160.07%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	10342.5	0.437	ug/L	0.0220	0.437	ug/L	0.0220	5.02%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	585.1	-2.126	ug/L	0.0898	-2.126	ug/L	0.0898	4.22%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 12/11/12 10:44:17 AM
Data Type: Reprocessed on 12/12/12 9:39:37 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	126781.2	994.7	ug/L	5.21	994.7	ug/L	5.21	0.52%
QC value within limits for Ag 338.289 Recovery = 99.47%								
Al 308.215	315921.5	189000	ug/L	541.8	189000	ug/L	541.8	0.29%
QC value within limits for Al 308.215 Recovery = 94.48%								
As 188.979	2445.4	467.3	ug/L	2.09	467.3	ug/L	2.09	0.45%
QC value within limits for As 188.979 Recovery = 93.46%								
B	-2087.5	62.57	ug/L	5.870	62.57	ug/L	5.870	9.38%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	91001.2	458.8	ug/L	3.69	458.8	ug/L	3.69	0.80%
QC value within limits for Ba 233.527 Recovery = 91.77%								
Be 313.107	2909577.3	466.1	ug/L	5.03	466.1	ug/L	5.03	1.08%
QC value within limits for Be 313.107 Recovery = 93.21%								
Ca 315.887	2280068.1	190900	ug/L	664.1	190900	ug/L	664.1	0.35%
QC value within limits for Ca 315.887 Recovery = 95.47%								
Cd 214.440	324489.9	907.0	ug/L	1.91	907.0	ug/L	1.91	0.21%
QC value within limits for Cd 214.440 Recovery = 90.70%								
Co 228.616	31148.4	452.1	ug/L	1.35	452.1	ug/L	1.35	0.30%
QC value within limits for Co 228.616 Recovery = 90.43%								
Cr 267.716	64516.3	462.0	ug/L	2.55	462.0	ug/L	2.55	0.55%
QC value within limits for Cr 267.716 Recovery = 92.39%								
Cu 327.393	43670.2	478.8	ug/L	2.42	478.8	ug/L	2.42	0.51%
QC value within limits for Cu 327.393 Recovery = 95.77%								
Fe 273.955	4499362.4	174700	ug/L	2187.3	174700	ug/L	2187.3	1.25%
QC value within limits for Fe 273.955 Recovery = 87.35%								
K 766.490	120.6	-65.46	ug/L	36.117	-65.46	ug/L	36.117	55.17%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3652695.1	186600	ug/L	448.4	186600	ug/L	448.4	0.24%
QC value within limits for Mg 285.213 Recovery = 93.30%								
Mn 257.610	24661.8	464.0	ug/L	7.34	464.0	ug/L	7.34	1.58%
QC value within limits for Mn 257.610 Recovery = 92.81%								
Mo 202.031	19389.4	470.4	ug/L	2.88	470.4	ug/L	2.88	0.61%
QC value within limits for Mo 202.031 Recovery = 94.07%								
Na 589.592	469.1	-10.31	ug/L	9.408	-10.31	ug/L	9.408	91.21%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	58001.7	917.2	ug/L	0.88	917.2	ug/L	0.88	0.10%
QC value within limits for Ni 231.604 Recovery = 91.72%								
P 213.617	-29.0	-4.176	ug/L	0.9601	-4.176	ug/L	0.9601	22.99%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	13392.2	921.9	ug/L	1.67	921.9	ug/L	1.67	0.18%
QC value within limits for Pb 220.353 Recovery = 92.19%								
Sb 206.836	2934.6	467.9	ug/L	4.96	467.9	ug/L	4.96	1.06%
QC value within limits for Sb 206.836 Recovery = 93.59%								
Se 196.026	2036.4	471.2	ug/L	5.46	471.2	ug/L	5.46	1.16%
QC value within limits for Se 196.026 Recovery = 94.24%								
Sn 189.927	0.2	0.027	ug/L	0.4751	0.027	ug/L	0.4751	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2295.5	0.157	ug/L	0.0967	0.157	ug/L	0.0967	61.74%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	135.3	-0.195	ug/L	0.8140	-0.195	ug/L	0.8140	416.75%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2944.2	443.8	ug/L	2.37	443.8	ug/L	2.37	0.53%
QC value within limits for Tl 190.801 Recovery = 88.75%								
V 292.402	120494.1	482.0	ug/L	3.15	482.0	ug/L	3.15	0.65%
QC value within limits for V 292.402 Recovery = 96.39%								
Zn 206.200	80026.1	917.3	ug/L	1.95	917.3	ug/L	1.95	0.21%
QC value within limits for Zn 206.200 Recovery = 91.73%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/11/12 10:48:58 AM
Data Type: Reprocessed on 12/12/12 9:39:38 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65185.7	511.4	ug/L	3.80	511.4	ug/L	3.80	0.74%
QC value within limits for Ag 338.289 Recovery = 102.28%								
Al 308.215	34558.5	20680	ug/L	61.7	20680	ug/L	61.7	0.30%
QC value within limits for Al 308.215 Recovery = 103.39%								
As 188.979	5376.6	1027	ug/L	1.5	1027	ug/L	1.5	0.14%
QC value within limits for As 188.979 Recovery = 102.75%								
B	4336.6	1080	ug/L	2.6	1080	ug/L	2.6	0.24%
QC value within limits for B Recovery = 107.98%								
Ba 233.527	167816.7	1025	ug/L	6.2	1025	ug/L	6.2	0.60%
QC value within limits for Ba 233.527 Recovery = 102.54%								
Be 313.107	6546900.9	1049	ug/L	7.0	1049	ug/L	7.0	0.66%
QC value within limits for Be 313.107 Recovery = 104.87%								
Ca 315.887	615584.0	51550	ug/L	111.8	51550	ug/L	111.8	0.22%
QC value within limits for Ca 315.887 Recovery = 103.10%								
Cd 214.440	373539.6	1054	ug/L	5.8	1054	ug/L	5.8	0.55%
QC value within limits for Cd 214.440 Recovery = 105.38%								
Co 228.616	71219.9	1040	ug/L	6.1	1040	ug/L	6.1	0.58%
QC value within limits for Co 228.616 Recovery = 104.00%								
Cr 267.716	145417.4	1040	ug/L	5.6	1040	ug/L	5.6	0.54%
QC value within limits for Cr 267.716 Recovery = 103.98%								
Cu 327.393	93031.9	1020	ug/L	9.2	1020	ug/L	9.2	0.90%
QC value within limits for Cu 327.393 Recovery = 102.01%								
Fe 273.955	536398.8	20750	ug/L	111.5	20750	ug/L	111.5	0.54%
QC value within limits for Fe 273.955 Recovery = 103.74%								
K 766.490	50255.2	19670	ug/L	10.5	19670	ug/L	10.5	0.05%
QC value within limits for K 766.490 Recovery = 98.34%								
Mg 285.213	1012150.8	51670	ug/L	114.1	51670	ug/L	114.1	0.22%
QC value within limits for Mg 285.213 Recovery = 103.35%								
Mn 257.610	55486.2	1041	ug/L	1.2	1041	ug/L	1.2	0.11%
QC value within limits for Mn 257.610 Recovery = 104.09%								
Mo 202.031	44012.8	1039	ug/L	6.0	1039	ug/L	6.0	0.57%
QC value within limits for Mo 202.031 Recovery = 103.90%								
Na 589.592	335792.9	25400	ug/L	91.3	25400	ug/L	91.3	0.36%
QC value within limits for Na 589.592 Recovery = 101.59%								
Ni 231.604	66272.0	1047	ug/L	4.8	1047	ug/L	4.8	0.46%
QC value within limits for Ni 231.604 Recovery = 104.71%								
P 213.617	35894.9	5167	ug/L	26.2	5167	ug/L	26.2	0.51%
QC value within limits for P 213.617 Recovery = 103.34%								
Pb 220.353	15238.8	1049	ug/L	3.0	1049	ug/L	3.0	0.28%
QC value within limits for Pb 220.353 Recovery = 104.91%								
Sb 206.836	6465.9	1031	ug/L	4.3	1031	ug/L	4.3	0.41%
QC value within limits for Sb 206.836 Recovery = 103.10%								
Se 196.026	5557.5	1044	ug/L	2.9	1044	ug/L	2.9	0.28%
QC value within limits for Se 196.026 Recovery = 104.37%								
Sn 189.927	7516.1	1060	ug/L	4.8	1060	ug/L	4.8	0.45%
QC value within limits for Sn 189.927 Recovery = 105.99%								
Sr 421.552	1022827.9	1016	ug/L	3.4	1016	ug/L	3.4	0.33%
QC value within limits for Sr 421.552 Recovery = 101.64%								
Ti 337.279	45124.3	1031	ug/L	2.0	1031	ug/L	2.0	0.20%
QC value within limits for Ti 337.279 Recovery = 103.12%								
Tl 190.801	6852.7	1033	ug/L	7.1	1033	ug/L	7.1	0.68%
QC value within limits for Tl 190.801 Recovery = 103.28%								
V 292.402	241405.4	1049	ug/L	4.7	1049	ug/L	4.7	0.45%
QC value within limits for V 292.402 Recovery = 104.89%								
Zn 206.200	91625.4	1065	ug/L	5.8	1065	ug/L	5.8	0.54%
QC value within limits for Zn 206.200 Recovery = 106.49%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/11/12 10:53:33 AM
Data Type: Reprocessed on 12/12/12 9:39:39 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-5.4	-0.042	ug/L	0.6187	-0.042	ug/L	0.6187	>999.9%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	6.1	3.604	ug/L	8.9404	3.604	ug/L	8.9404	248.05%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	8.4	1.614	ug/L	0.3185	1.614	ug/L	0.3185	19.73%
QC value within limits for As 188.979 Recovery = Not calculated								
B	34.3	8.044	ug/L	3.6975	8.044	ug/L	3.6975	45.97%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-1.6	-0.013	ug/L	0.1056	-0.013	ug/L	0.1056	841.71%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-220.9	-0.035	ug/L	0.0242	-0.035	ug/L	0.0242	68.51%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	81.2	6.793	ug/L	1.3593	6.793	ug/L	1.3593	20.01%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	6.1	0.017	ug/L	0.0169	0.017	ug/L	0.0169	98.65%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	5.6	0.084	ug/L	0.1679	0.084	ug/L	0.1679	199.31%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-3.8	-0.027	ug/L	0.0711	-0.027	ug/L	0.0711	260.82%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	7.3	0.081	ug/L	1.1353	0.081	ug/L	1.1353	>999.9%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	96.3	3.732	ug/L	0.5228	3.732	ug/L	0.5228	14.01%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	87.4	34.24	ug/L	65.246	34.24	ug/L	65.246	190.57%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	37.2	1.902	ug/L	0.5171	1.902	ug/L	0.5171	27.19%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-5.1	-0.096	ug/L	0.0674	-0.096	ug/L	0.0674	70.24%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	22.2	0.522	ug/L	0.3127	0.522	ug/L	0.3127	59.84%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	604.1	45.71	ug/L	2.600	45.71	ug/L	2.600	5.69%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-8.8	-0.140	ug/L	0.2312	-0.140	ug/L	0.2312	164.97%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	0.3	0.043	ug/L	0.5897	0.043	ug/L	0.5897	>999.9%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-4.1	-0.283	ug/L	0.3487	-0.283	ug/L	0.3487	123.22%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	10.2	1.631	ug/L	0.3414	1.631	ug/L	0.3414	20.94%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	1.7	0.322	ug/L	1.0121	0.322	ug/L	1.0121	314.03%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	20.3	2.868	ug/L	0.8930	2.868	ug/L	0.8930	31.14%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	157.5	0.157	ug/L	0.1885	0.157	ug/L	0.1885	120.43%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-7.9	-0.182	ug/L	0.1413	-0.182	ug/L	0.1413	77.77%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	6.6	0.993	ug/L	0.1913	0.993	ug/L	0.1913	19.27%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	14.8	0.070	ug/L	0.2975	0.070	ug/L	0.2975	427.88%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-84.7	-0.975	ug/L	0.0666	-0.975	ug/L	0.0666	6.84%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 112
Sample ID: CCV1 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/11/12 7:11:39 PM
Data Type: Reprocessed on 12/12/12 9:41:24 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	58402.9	458.2	ug/L	9.79	458.2	ug/L	9.79	2.14%
QC value within limits for Ag 338.289 Recovery = 91.64%								
Al 308.215	30911.4	18500	ug/L	89.0	18500	ug/L	89.0	0.48%
QC value within limits for Al 308.215 Recovery = 92.48%								
As 188.979	4978.7	951.4	ug/L	4.35	951.4	ug/L	4.35	0.46%
QC value within limits for As 188.979 Recovery = 95.14%								
B	3674.1	918.8	ug/L	7.90	918.8	ug/L	7.90	0.86%
QC value within limits for B Recovery = 91.88%								
Ba 233.527	152045.7	929.0	ug/L	12.30	929.0	ug/L	12.30	1.32%
QC value within limits for Ba 233.527 Recovery = 92.90%								
Be 313.107	6051609.1	969.4	ug/L	10.99	969.4	ug/L	10.99	1.13%
QC value within limits for Be 313.107 Recovery = 96.94%								
Ca 315.887	537594.6	45020	ug/L	409.7	45020	ug/L	409.7	0.91%
QC value within limits for Ca 315.887 Recovery = 90.04%								
Cd 214.440	340461.5	960.5	ug/L	13.18	960.5	ug/L	13.18	1.37%
QC value within limits for Cd 214.440 Recovery = 96.05%								
Co 228.616	64769.2	945.9	ug/L	11.98	945.9	ug/L	11.98	1.27%
QC value within limits for Co 228.616 Recovery = 94.59%								
Cr 267.716	132497.0	947.4	ug/L	11.87	947.4	ug/L	11.87	1.25%
QC value within limits for Cr 267.716 Recovery = 94.74%								
Cu 327.393	84254.2	923.8	ug/L	19.84	923.8	ug/L	19.84	2.15%
QC value within limits for Cu 327.393 Recovery = 92.38%								
Fe 273.955	486811.9	18830	ug/L	233.5	18830	ug/L	233.5	1.24%
QC value within limits for Fe 273.955 Recovery = 94.15%								
K 766.490	45879.9	17960	ug/L	106.1	17960	ug/L	106.1	0.59%
QC value within limits for K 766.490 Recovery = 89.78%								
Mg 285.213	890102.3	45440	ug/L	303.9	45440	ug/L	303.9	0.67%
QC value within limits for Mg 285.213 Recovery = 90.89%								
Mn 257.610	48344.2	906.9	ug/L	5.07	906.9	ug/L	5.07	0.56%
QC value within limits for Mn 257.610 Recovery = 90.69%								
Mo 202.031	40113.3	947.0	ug/L	14.84	947.0	ug/L	14.84	1.57%
QC value within limits for Mo 202.031 Recovery = 94.70%								
Na 589.592	310884.7	23510	ug/L	198.3	23510	ug/L	198.3	0.84%
QC value within limits for Na 589.592 Recovery = 94.06%								
Ni 231.604	60466.8	955.4	ug/L	13.22	955.4	ug/L	13.22	1.38%
QC value within limits for Ni 231.604 Recovery = 95.54%								
P 213.617	32627.5	4697	ug/L	90.1	4697	ug/L	90.1	1.92%
QC value within limits for P 213.617 Recovery = 93.94%								
Pb 220.353	14076.7	969.1	ug/L	9.43	969.1	ug/L	9.43	0.97%
QC value within limits for Pb 220.353 Recovery = 96.91%								
Sb 206.836	6093.0	971.5	ug/L	4.67	971.5	ug/L	4.67	0.48%
QC value within limits for Sb 206.836 Recovery = 97.15%								
Se 196.026	5153.1	967.7	ug/L	3.47	967.7	ug/L	3.47	0.36%
QC value within limits for Se 196.026 Recovery = 96.77%								
Sn 189.927	7024.3	990.6	ug/L	8.38	990.6	ug/L	8.38	0.85%
QC value within limits for Sn 189.927 Recovery = 99.06%								
Sr 421.552	947566.5	941.6	ug/L	8.60	941.6	ug/L	8.60	0.91%
QC value within limits for Sr 421.552 Recovery = 94.16%								
Ti 337.279	40068.6	915.6	ug/L	7.40	915.6	ug/L	7.40	0.81%
QC value within limits for Ti 337.279 Recovery = 91.56%								
Tl 190.801	6223.4	938.0	ug/L	8.18	938.0	ug/L	8.18	0.87%
QC value within limits for Tl 190.801 Recovery = 93.80%								
V 292.402	220466.2	957.9	ug/L	13.74	957.9	ug/L	13.74	1.43%
QC value within limits for V 292.402 Recovery = 95.79%								
Zn 206.200	83848.8	974.5	ug/L	11.75	974.5	ug/L	11.75	1.21%
QC value within limits for Zn 206.200 Recovery = 97.45%								

All analyte(s) passed QC.

Sequence No.: 113
Sample ID: CCB 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/11/12 7:15:08 PM
Data Type: Reprocessed on 12/12/12 9:41:25 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	7.1	0.056	ug/L	1.4422	0.056	ug/L	1.4422	>999.9%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-13.0	-7.808	ug/L	4.1159	-7.808	ug/L	4.1159	52.71%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.6	1.456	ug/L	0.9559	1.456	ug/L	0.9559	65.66%
QC value within limits for As 188.979 Recovery = Not calculated								
B	46.3	10.87	ug/L	1.549	10.87	ug/L	1.549	14.25%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	11.8	0.071	ug/L	0.0605	0.071	ug/L	0.0605	85.02%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-288.1	-0.046	ug/L	0.0123	-0.046	ug/L	0.0123	26.74%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	134.9	11.29	ug/L	1.058	11.29	ug/L	1.058	9.37%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	30.1	0.085	ug/L	0.0555	0.085	ug/L	0.0555	65.47%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-4.2	-0.060	ug/L	0.0458	-0.060	ug/L	0.0458	76.09%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-15.0	-0.108	ug/L	0.0810	-0.108	ug/L	0.0810	74.99%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-82.9	-0.909	ug/L	0.3330	-0.909	ug/L	0.3330	36.63%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	60.4	2.365	ug/L	0.7940	2.365	ug/L	0.7940	33.57%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	54.5	21.36	ug/L	33.162	21.36	ug/L	33.162	155.24%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	67.6	3.449	ug/L	1.1021	3.449	ug/L	1.1021	31.95%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	5.4	0.101	ug/L	0.1599	0.101	ug/L	0.1599	158.23%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	28.2	0.665	ug/L	0.2190	0.665	ug/L	0.2190	32.96%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	1434.4	108.6	ug/L	4.20	108.6	ug/L	4.20	3.87%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-8.1	-0.130	ug/L	0.1491	-0.130	ug/L	0.1491	115.04%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-0.3	-0.047	ug/L	0.7897	-0.047	ug/L	0.7897	>999.9%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-0.7	-0.046	ug/L	0.4319	-0.046	ug/L	0.4319	940.90%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.9	0.617	ug/L	0.5837	0.617	ug/L	0.5837	94.55%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	17.5	3.258	ug/L	1.6813	3.258	ug/L	1.6813	51.61%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	17.7	2.499	ug/L	0.8924	2.499	ug/L	0.8924	35.72%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	248.3	0.247	ug/L	0.0620	0.247	ug/L	0.0620	25.14%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	18.4	0.421	ug/L	0.2241	0.421	ug/L	0.2241	53.30%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	16.7	2.522	ug/L	0.9586	2.522	ug/L	0.9586	38.01%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-48.8	-0.201	ug/L	0.8550	-0.201	ug/L	0.8550	424.97%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-117.9	-1.358	ug/L	0.1353	-1.358	ug/L	0.1353	9.97%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 124
Sample ID: CCV2 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 12/11/12 8:12:25 PM
Data Type: Reprocessed on 12/12/12 9:41:36 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	47287.6	371.0	ug/L	9.54	371.0	ug/L	9.54	2.57%
QC value within limits for Ag 338.289 Recovery = 98.93%								
Al 308.215	24693.9	14770	ug/L	167.3	14770	ug/L	167.3	1.13%
QC value within limits for Al 308.215 Recovery = 98.50%								
As 188.979	3957.9	756.3	ug/L	1.69	756.3	ug/L	1.69	0.22%
QC value within limits for As 188.979 Recovery = 100.85%								
B	2896.8	725.0	ug/L	11.34	725.0	ug/L	11.34	1.56%
QC value within limits for B Recovery = 96.66%								
Ba 233.527	121999.1	745.5	ug/L	11.79	745.5	ug/L	11.79	1.58%
QC value within limits for Ba 233.527 Recovery = 99.40%								
Be 313.107	4825533.8	773.0	ug/L	2.94	773.0	ug/L	2.94	0.38%
QC value within limits for Be 313.107 Recovery = 103.06%								
Ca 315.887	441165.8	36940	ug/L	258.5	36940	ug/L	258.5	0.70%
QC value within limits for Ca 315.887 Recovery = 98.52%								
Cd 214.440	273372.1	771.3	ug/L	10.96	771.3	ug/L	10.96	1.42%
QC value within limits for Cd 214.440 Recovery = 102.83%								
Co 228.616	52273.6	763.5	ug/L	11.95	763.5	ug/L	11.95	1.57%
QC value within limits for Co 228.616 Recovery = 101.80%								
Cr 267.716	106691.3	762.9	ug/L	11.81	762.9	ug/L	11.81	1.55%
QC value within limits for Cr 267.716 Recovery = 101.72%								
Cu 327.393	67733.9	742.7	ug/L	17.00	742.7	ug/L	17.00	2.29%
QC value within limits for Cu 327.393 Recovery = 99.03%								
Fe 273.955	388881.4	15040	ug/L	231.7	15040	ug/L	231.7	1.54%
QC value within limits for Fe 273.955 Recovery = 100.28%								
K 766.490	36461.2	14270	ug/L	46.3	14270	ug/L	46.3	0.32%
QC value within limits for K 766.490 Recovery = 95.13%								
Mg 285.213	725607.8	37040	ug/L	210.8	37040	ug/L	210.8	0.57%
QC value within limits for Mg 285.213 Recovery = 98.78%								
Mn 257.610	38768.4	727.3	ug/L	8.56	727.3	ug/L	8.56	1.18%
QC value within limits for Mn 257.610 Recovery = 96.97%								
Mo 202.031	33367.3	787.6	ug/L	0.37	787.6	ug/L	0.37	0.05%
QC value within limits for Mo 202.031 Recovery = 105.02%								
Na 589.592	254570.1	19260	ug/L	113.0	19260	ug/L	113.0	0.59%
QC value within limits for Na 589.592 Recovery = 102.69%								
Ni 231.604	48776.2	770.7	ug/L	9.50	770.7	ug/L	9.50	1.23%
QC value within limits for Ni 231.604 Recovery = 102.76%								
P 213.617	27984.5	4029	ug/L	131.8	4029	ug/L	131.8	3.27%
QC value within limits for P 213.617 Recovery = 107.43%								
Pb 220.353	11252.5	774.6	ug/L	0.93	774.6	ug/L	0.93	0.12%
QC value within limits for Pb 220.353 Recovery = 103.28%								
Sb 206.836	4838.7	771.5	ug/L	2.54	771.5	ug/L	2.54	0.33%
QC value within limits for Sb 206.836 Recovery = 102.87%								
Se 196.026	4117.1	773.2	ug/L	3.71	773.2	ug/L	3.71	0.48%
QC value within limits for Se 196.026 Recovery = 103.09%								
Sn 189.927	5537.7	780.9	ug/L	6.43	780.9	ug/L	6.43	0.82%
QC value within limits for Sn 189.927 Recovery = 104.13%								
Sr 421.552	767507.1	762.7	ug/L	5.84	762.7	ug/L	5.84	0.77%
QC value within limits for Sr 421.552 Recovery = 101.69%								
Ti 337.279	31903.2	729.0	ug/L	7.88	729.0	ug/L	7.88	1.08%
QC value within limits for Ti 337.279 Recovery = 97.20%								
Tl 190.801	4909.8	740.0	ug/L	1.30	740.0	ug/L	1.30	0.18%
QC value within limits for Tl 190.801 Recovery = 98.67%								
V 292.402	177209.2	770.4	ug/L	11.46	770.4	ug/L	11.46	1.49%
QC value within limits for V 292.402 Recovery = 102.72%								
Zn 206.200	67245.5	781.6	ug/L	10.33	781.6	ug/L	10.33	1.32%
QC value within limits for Zn 206.200 Recovery = 104.21%								

All analyte(s) passed QC.

Sequence No.: 125
Sample ID: CCB 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 12/11/12 8:19:18 PM
Data Type: Reprocessed on 12/12/12 9:41:37 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-97.5	-0.765	ug/L	0.5648	-0.765	ug/L	0.5648	73.85%
QC value less than the lower limit for Ag 338.289 Recovery = Not calculated								
Al 308.215	0.4	0.208	ug/L	1.7155	0.208	ug/L	1.7155	826.66%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	6.9	1.320	ug/L	0.6681	1.320	ug/L	0.6681	50.60%
QC value within limits for As 188.979 Recovery = Not calculated								
B	22.2	5.192	ug/L	0.9713	5.192	ug/L	0.9713	18.71%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	14.7	0.088	ug/L	0.0435	0.088	ug/L	0.0435	49.11%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-354.0	-0.057	ug/L	0.0115	-0.057	ug/L	0.0115	20.22%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	4684.6	392.4	ug/L	4.36	392.4	ug/L	4.36	1.11%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	21.4	0.059	ug/L	0.0617	0.059	ug/L	0.0617	104.30%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	11.8	0.171	ug/L	0.2221	0.171	ug/L	0.2221	129.97%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-25.7	-0.185	ug/L	0.1174	-0.185	ug/L	0.1174	63.64%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-38.0	-0.417	ug/L	0.2439	-0.417	ug/L	0.2439	58.46%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	65.3	2.537	ug/L	0.4462	2.537	ug/L	0.4462	17.59%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	27.7	10.76	ug/L	64.505	10.76	ug/L	64.505	599.73%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	212.7	10.85	ug/L	0.341	10.85	ug/L	0.341	3.14%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-5.5	-0.106	ug/L	0.2002	-0.106	ug/L	0.2002	188.52%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	6.4	0.150	ug/L	0.1729	0.150	ug/L	0.1729	115.49%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	2906.9	220.0	ug/L	3.71	220.0	ug/L	3.71	1.68%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	15.1	0.238	ug/L	0.1635	0.238	ug/L	0.1635	68.56%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	1048.6	151.0	ug/L	19.29	151.0	ug/L	19.29	12.78%
QC value greater than the upper limit for P 213.617 Recovery = Not calculated								
Pb 220.353	-8.6	-0.595	ug/L	0.6310	-0.595	ug/L	0.6310	106.08%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-0.9	-0.137	ug/L	0.4319	-0.137	ug/L	0.4319	314.54%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	3.1	0.564	ug/L	1.3893	0.564	ug/L	1.3893	246.48%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-3.2	-0.455	ug/L	0.1614	-0.455	ug/L	0.1614	35.47%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	292.7	0.288	ug/L	0.1486	0.288	ug/L	0.1486	51.60%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	8.1	0.183	ug/L	0.2103	0.183	ug/L	0.2103	114.88%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	11.3	1.703	ug/L	0.3813	1.703	ug/L	0.3813	22.39%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-26.8	-0.115	ug/L	0.3104	-0.115	ug/L	0.3104	268.79%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-16.4	-0.188	ug/L	0.2232	-0.188	ug/L	0.2232	118.75%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/10/12	12/11/12	#6010B-121210A-AY72368
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/28/12	11/28/12	#6010B-121128B-AY72102

Sequence No.: 34
Sample ID: 121128B-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 42
Date Collected: 11/28/12 6:41:25 PM
Data Type: Reprocessed on 11/29/12 2:04:35 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121128B-3050-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-38.4	-0.345	ug/L	0.9396	-0.014	mg/kg	0.0376	272.39%
Al 308.215	-19.7	-13.80	ug/L	0.805	-0.552	mg/kg	0.0322	5.83%
As 188.979	4.6	1.109	ug/L	1.0698	0.044	mg/kg	0.0428	96.49%
B	26.2	8.911	ug/L	1.0631	0.356	mg/kg	0.0425	11.93%
Ba 233.527	20.1	0.138	ug/L	0.0377	0.006	mg/kg	0.0015	27.28%
Be 313.107	-270.7	-0.051	ug/L	0.0109	-0.002	mg/kg	0.0004	21.31%
Ca 315.887	200.6	19.86	ug/L	2.001	0.794	mg/kg	0.0800	10.08%
Cd 214.440	145.0	0.472	ug/L	0.0516	0.019	mg/kg	0.0021	10.93%
Co 228.616	25.9	0.447	ug/L	0.1848	0.018	mg/kg	0.0074	41.33%
Cr 267.716	94.5	0.746	ug/L	0.0143	0.030	mg/kg	0.0006	1.92%
Cu 327.393	261.2	2.906	ug/L	0.6563	0.116	mg/kg	0.0263	22.58%
Fe 273.955	-35.5	-1.479	ug/L	0.3589	-0.059	mg/kg	0.0144	24.26%
K 766.490	180.6	100.2	ug/L	58.53	4.010	mg/kg	2.3412	58.38%
Mg 285.213	28.8	1.823	ug/L	1.0739	0.073	mg/kg	0.0430	58.91%
Mn 257.610	27.7	0.636	ug/L	0.1116	0.025	mg/kg	0.0045	17.54%
Mo 202.031	89.0	2.289	ug/L	0.1568	0.092	mg/kg	0.0063	6.85%
Na 589.592	4847.6	459.5	ug/L	49.53	18.38	mg/kg	1.981	10.78%
Ni 231.604	-134.5	-2.434	ug/L	0.4264	-0.097	mg/kg	0.0171	17.52%
P 213.617	131.8	23.87	ug/L	0.591	0.955	mg/kg	0.0236	2.48%
Pb 220.353	-52.7	-4.018	ug/L	0.8476	-0.161	mg/kg	0.0339	21.10%
Sb 206.836	1.6	0.314	ug/L	1.3523	0.013	mg/kg	0.0541	431.32%
Se 196.026	6.7	1.605	ug/L	1.2322	0.064	mg/kg	0.0493	76.80%
Sn 189.927	-11.0	-1.641	ug/L	0.4492	-0.066	mg/kg	0.0180	27.37%
Sr 421.552	134.4	0.160	ug/L	0.1449	0.006	mg/kg	0.0058	90.79%
Ti 337.279	21.4	0.603	ug/L	0.1323	0.024	mg/kg	0.0053	21.93%
Tl 190.801	-6.2	-1.067	ug/L	0.5298	-0.043	mg/kg	0.0212	49.66%
V 292.402	-184.2	-0.831	ug/L	0.3309	-0.033	mg/kg	0.0132	39.81%
Zn 206.200	-21.2	-0.267	ug/L	0.0777	-0.011	mg/kg	0.0031	29.09%

Sequence No.: 114
Sample ID: 121210A-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 48
Date Collected: 12/11/12 7:19:27 PM
Data Type: Reprocessed on 12/12/12 9:41:26 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121210A-3050-BLK

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-114.7	-0.900	ug/L	0.2314	-0.036	mg/kg	0.0093	25.71%
Al 308.215	-21.3	-12.78	ug/L	1.130	-0.511	mg/kg	0.0452	8.84%
As 188.979	4.7	0.902	ug/L	0.1156	0.036	mg/kg	0.0046	12.81%
B	28.5	6.681	ug/L	0.6113	0.267	mg/kg	0.0245	9.15%
Ba 233.527	23.1	0.141	ug/L	0.0388	0.006	mg/kg	0.0016	27.53%
Be 313.107	-252.0	-0.040	ug/L	0.0109	-0.002	mg/kg	0.0004	27.12%
Ca 315.887	196.0	16.42	ug/L	1.159	0.657	mg/kg	0.0464	7.06%
Cd 214.440	67.9	0.192	ug/L	0.0361	0.008	mg/kg	0.0014	18.78%
Co 228.616	-6.3	-0.090	ug/L	0.1134	-0.004	mg/kg	0.0045	125.46%
Cr 267.716	16.2	0.115	ug/L	0.1076	0.005	mg/kg	0.0043	93.34%
Cu 327.393	-81.4	-0.892	ug/L	0.6107	-0.036	mg/kg	0.0244	68.45%
Fe 273.955	62.1	2.418	ug/L	0.9454	0.097	mg/kg	0.0378	39.10%
K 766.490	-90.4	-35.40	ug/L	56.332	-1.416	mg/kg	2.2533	159.14%
Mg 285.213	86.3	4.409	ug/L	0.3681	0.176	mg/kg	0.0147	8.35%
Mn 257.610	-0.6	-0.012	ug/L	0.2125	0.000	mg/kg	0.0085	>999.9%
Mo 202.031	38.4	0.906	ug/L	0.2079	0.036	mg/kg	0.0083	22.96%
Na 589.592	1365.8	103.4	ug/L	8.75	4.136	mg/kg	0.3498	8.46%
Ni 231.604	-40.2	-0.637	ug/L	0.2067	-0.025	mg/kg	0.0083	32.46%
P 213.617	131.4	18.92	ug/L	0.626	0.757	mg/kg	0.0250	3.31%
Pb 220.353	-27.1	-1.868	ug/L	0.3574	-0.075	mg/kg	0.0143	19.13%
Sb 206.836	-0.8	-0.122	ug/L	0.4041	-0.005	mg/kg	0.0162	330.98%
Se 196.026	9.9	1.837	ug/L	3.2051	0.073	mg/kg	0.1282	174.50%
Sn 189.927	-2.3	-0.318	ug/L	1.2132	-0.013	mg/kg	0.0485	381.19%
Sr 421.552	141.8	0.141	ug/L	0.1239	0.006	mg/kg	0.0050	88.15%
Ti 337.279	22.4	0.512	ug/L	0.5893	0.020	mg/kg	0.0236	115.09%
Tl 190.801	-2.0	-0.296	ug/L	0.2686	-0.012	mg/kg	0.0107	90.63%
V 292.402	-9.5	-0.028	ug/L	0.3067	-0.001	mg/kg	0.0123	>999.9%
Zn 206.200	-106.1	-1.220	ug/L	0.1032	-0.049	mg/kg	0.0041	8.46%

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	11.1	111	80-120	11/28/12	11/28/12	#6010B-121128B-AY72102

Comments: _____

Sequence No.: 35
Sample ID: 121128B-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 43
Date Collected: 11/28/12 6:45:46 PM
Data Type: Reprocessed on 11/29/12 2:04:36 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121128B-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	11757.7	105.6	ug/L	3.20	4.224	mg/kg	0.1279	3.03%
Al 308.215	3064.2	2130	ug/L	19.5	85.22	mg/kg	0.778	0.91%
As 188.979	1091.5	265.4	ug/L	1.20	10.62	mg/kg	0.048	0.45%
B	853.3	292.0	ug/L	1.97	11.68	mg/kg	0.079	0.68%
Ba 233.527	39449.4	273.1	ug/L	4.43	10.93	mg/kg	0.177	1.62%
Be 313.107	296215.0	55.95	ug/L	1.311	2.238	mg/kg	0.0524	2.34%
Ca 315.887	282236.9	27990	ug/L	372.7	1120	mg/kg	14.9	1.33%
Cd 214.440	17309.2	56.17	ug/L	0.276	2.247	mg/kg	0.0110	0.49%
Co 228.616	16821.3	287.1	ug/L	0.91	11.48	mg/kg	0.036	0.32%
Cr 267.716	37237.9	294.7	ug/L	4.99	11.79	mg/kg	0.200	1.69%
Cu 327.393	25270.9	281.2	ug/L	7.22	11.25	mg/kg	0.289	2.57%
Fe 273.955	25904.4	1101	ug/L	4.9	44.03	mg/kg	0.195	0.44%
K 766.490	9716.5	5387	ug/L	134.3	215.5	mg/kg	5.37	2.49%
Mg 285.213	422730.7	26870	ug/L	362.0	1075	mg/kg	14.5	1.35%
Mn 257.610	12858.7	293.9	ug/L	1.55	11.76	mg/kg	0.062	0.53%
Mo 202.031	11541.3	297.2	ug/L	0.90	11.89	mg/kg	0.036	0.30%
Na 589.592	291199.1	27600	ug/L	349.1	1104	mg/kg	14.0	1.26%
Ni 231.604	15931.9	287.7	ug/L	1.43	11.51	mg/kg	0.057	0.50%
P 213.617	11964.9	2167	ug/L	8.3	86.67	mg/kg	0.333	0.38%
Pb 220.353	3644.5	277.8	ug/L	0.27	11.11	mg/kg	0.011	0.10%
Sb 206.836	1382.2	265.5	ug/L	1.76	10.62	mg/kg	0.071	0.66%
Se 196.026	1072.6	257.8	ug/L	2.76	10.31	mg/kg	0.110	1.07%
Sn 189.927	1988.6	298.0	ug/L	1.39	11.92	mg/kg	0.056	0.47%
Sr 421.552	232699.5	277.0	ug/L	3.44	11.08	mg/kg	0.138	1.24%
Ti 337.279	10178.4	286.2	ug/L	1.43	11.45	mg/kg	0.057	0.50%
Tl 190.801	1544.4	266.1	ug/L	1.67	10.64	mg/kg	0.067	0.63%
V 292.402	61518.4	296.8	ug/L	5.12	11.87	mg/kg	0.205	1.72%
Zn 206.200	42685.6	568.8	ug/L	9.11	22.75	mg/kg	0.364	1.60%

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	9.4	94.0	80-120	12/10/12	12/11/12	#6010B-121210A-AY72368

Comments: _____

Sequence No.: 115
Sample ID: 121210A-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 49
Date Collected: 12/11/12 7:23:51 PM
Data Type: Reprocessed on 12/12/12 9:41:27 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121210A-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	11615.6	91.13	ug/L	2.444	3.645	mg/kg	0.0977	2.68%
Al 308.215	2953.3	1768	ug/L	7.1	70.74	mg/kg	0.285	0.40%
As 188.979	1161.6	222.0	ug/L	0.78	8.879	mg/kg	0.0312	0.35%
B	916.1	216.5	ug/L	1.51	8.661	mg/kg	0.0606	0.70%
Ba 233.527	37494.2	231.3	ug/L	0.36	9.251	mg/kg	0.0145	0.16%
Be 313.107	292356.1	46.83	ug/L	0.285	1.873	mg/kg	0.0114	0.61%
Ca 315.887	264781.6	22170	ug/L	210.6	887.0	mg/kg	8.42	0.95%
Cd 214.440	16610.1	46.98	ug/L	0.086	1.879	mg/kg	0.0034	0.18%
Co 228.616	16233.7	237.1	ug/L	0.36	9.484	mg/kg	0.0146	0.15%
Cr 267.716	34974.6	249.9	ug/L	0.36	9.997	mg/kg	0.0143	0.14%
Cu 327.393	20191.1	221.4	ug/L	3.08	8.856	mg/kg	0.1234	1.39%
Fe 273.955	24809.7	943.2	ug/L	0.44	37.73	mg/kg	0.018	0.05%
K 766.490	10642.6	4167	ug/L	72.7	166.7	mg/kg	2.91	1.74%
Mg 285.213	433689.2	22130	ug/L	169.1	885.3	mg/kg	6.77	0.76%
Mn 257.610	12013.9	224.7	ug/L	0.57	8.987	mg/kg	0.0229	0.26%
Mo 202.031	10320.3	243.3	ug/L	0.28	9.732	mg/kg	0.0114	0.12%
Na 589.592	299848.3	22690	ug/L	160.4	907.7	mg/kg	6.42	0.71%
Ni 231.604	15317.7	242.0	ug/L	0.74	9.679	mg/kg	0.0298	0.31%
P 213.617	12666.2	1823	ug/L	5.0	72.93	mg/kg	0.199	0.27%
Pb 220.353	3397.1	233.9	ug/L	1.26	9.354	mg/kg	0.0502	0.54%
Sb 206.836	1409.1	224.7	ug/L	0.25	8.987	mg/kg	0.0099	0.11%
Se 196.026	1156.9	214.7	ug/L	1.91	8.590	mg/kg	0.0766	0.89%
Sn 189.927	1752.6	247.2	ug/L	1.78	9.886	mg/kg	0.0712	0.72%
Sr 421.552	230236.6	228.7	ug/L	1.81	9.149	mg/kg	0.0723	0.79%
Ti 337.279	9990.8	228.1	ug/L	0.40	9.126	mg/kg	0.0160	0.18%
Tl 190.801	1469.7	221.5	ug/L	0.54	8.861	mg/kg	0.0215	0.24%
V 292.402	54852.5	239.4	ug/L	1.32	9.577	mg/kg	0.0528	0.55%
Zn 206.200	40681.0	471.3	ug/L	1.84	18.85	mg/kg	0.073	0.39%

EA 11-28-12

6010B C

(A)

1%HNO3 / 5%HCl BLK					6010B/6010C ICSA				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
100 mL	HCL	EMD	UN1789-265	10/22/12	1mL	Al	CPI	11J015-30092	05/28/13
20 mL	HNO3	JT BAKER	L10023-266	10/24/12	1mL	Ca	CPI	11J031-29989	05/14/13
Prepared in 2000 ml DI Water					1mL	Mg	CPI	11K178-30093	05/28/13
STD 1 / LDL 6010B/6010C					1mL	Fe	O2SI	1030787-30616	05/17/13
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	Prepared in 50 ml 1%HNO3/5%HCl				
0 5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13	6010B/6010C ICSAB				
Prepared in 50 ml 1%HNO3/5%HCl					1mL	Al	CPI	11J015-30092	05/28/13
STD 3 / HDL 6010B/6010C					1mL	Ca	CPI	11J031-29989	05/14/13
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15	1mL	Mg	CPI	11K178-30093	05/28/13
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15	1mL	Fe	O2SI	1030787-30616	05/17/13
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15	0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 100 ml 1%HNO3 / 5%HCl					Prepared in 50 ml 1%HNO3/5%HCl				
STD 2 / CCV1 6010B/6010C/6010C					6010B/6010C ICV				
AMOUNT	STD	PREP DATE	EXP DATE		0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
25mL	STD 3	Today	1 week		0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
25mL	1%HNO3/5%HCl	Today	1 week		Prepared in 50ml 1%HNO3/5%HCl				
CCV2 6010B/6010C									
AMOUNT	STD	PREP DATE	EXP DATE						
15mL	STD 3	Today	1 week						
25mL	1%HNO3/5%HCl	Today	1 week						

EA 11-28-12

BC 11/29/12

6020/6020A

(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A

Today's Date 11/29/12
Expires 12/06/12

Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL Di Water
Lot #L12065
20 mL HCL / 2000mL Di Water
Lot #51358
Expires: 12/06/12

Internal Standard Mix: Prep 11/29/2012

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1 0% HCL 11/29/12

Standard 3 12/06/12

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	ABS STDS	012512-30926
25 uL	CCV-B	ABS STDS	021312-30928
25 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1 0% HCL 11/29/12

Intermediate-Sb 12/06/12
100 uL of Sb STD (CPI 12A011-30298) in 10 mL of 1% HNO3/1 0% HCL
ICV-Sb 12/06/12
100 uL of Intermediate-Sb in 10 mL of 1% HNO3/1.0% HCL

BC 11/29/12

Standard 2 12/06/12

Amount	STD	
500 uL	Standard 4	11/29/12

Prepared in 50 mL of 1% HNO3/1 0% HCL 11/29/12

Standard 1 12/06/12

Amount	STD	
50 uL	Standard 4	11/29/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 11/29/12

ICP-MS ICV 12/06/12

Amount	STD		
50 uL	QCS ICV A	CPI	11C184-30611
50 uL	QCS ICV B	CPI	11C184-30612

Prepared in 50 mL of 1% HNO3/1 0% HCL 11/29/12

ICSA Prep: 12/06/12

1 mL	ICSA	CPI	12I082-31307

Prepared in 5 mL of 1% HNO3/1.0% HCL 11/29/12

ICSAB Prep: 12/06/12

1mL	ICSA	CPI	12I082-31307
0 025mL	INT	O2SI	1032370-30265

Prepared in 5 mL of 1% HNO3/1 0% HCL 11/29/12

ICP-LDR 12/06/12

Amount	STD		
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 10 mL of 1% HNO3/1 0% HCL 11/29/12

BC 11/29/12

BC 11/29/12

Internal Standard Concentration

Amt	STD	Element	Vendor	Lot#	Final Conc. in Std	Expires
500uL	1000 ug/mL	Li	CPI	1035052-30567	5000 ug/L	09/28/13
500uL	1000 ug/mL	In	CPI	12D087-31275	5000 ug/L	02/23/14
500uL	1000 ug/mL	Ho	CPI	11C008-31273	5000 ug/L	02/23/14
500uL	1000 ug/mL	Tb	CPI	12F203-31274	5000 ug/L	02/23/14
500uL	1000 ug/mL	Sc	o2si	1039029-31295	5000 ug/L	02/25/14
500uL	1000 ug/mL	Ge	Environmental Express	1116011-29381	5000 ug/L	02/08/13

Prep:	11/29/12	BC	Prep in -	1%HNO3/1.0%HCL	Lot #L12065/51358	in 100mL
Expires:	12/29/12					

LO 11/29/12

Hg working Stds

LO 11/29/12

Hg WORKING STANDARD 7470A/7471/245.1

1ml X 10ug/ml Hg STOCK STD. (11/13/12LO)/200ml 1% HNO3 Lot#L12065
1ml X 10ug/ml Hg STOCK ICV (11/13/12LO)/200ml 1% HNO3 Lot#L12065
Final concentration is 50 ug/L. Expires.....11.29.12.....

Metals Standards Log Book # 30 Page # 055

EA 12-11-12

6010B-C

A

1%HNO3 / 5%HCl BLK					6010B/6010C ICSA				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
100 mL	HCL	EMD	UN1789-265	10/22/12	1mL	Al	CPI	11J015-30092	05/28/13
20 mL	HNO3	JT BAKER	L10023-266	10/24/12	1mL	Ca	CPI	11J031-29989	05/14/13
Prepared in 2000 ml DI Water					1mL	Mg	CPI	11K178-30093	05/28/13
STD 1 / LDL 6010B/6010C					1mL	Fe	O2SI	1030787-30616	05/17/13
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	Prepared in 50 ml 1%HNO3/5%HCl				
0.5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13	6010B/6010C ICSAB				
Prepared in 50 ml 1%HNO3/5%HCl					1mL	Al	CPI	11J015-30092	05/28/13
STD 3 / HDL 6010B/6010C					1mL	Ca	CPI	11J031-29989	05/14/13
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15	1mL	Mg	CPI	11K178-30093	05/28/13
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15	1mL	Fe	O2SI	1030787-30616	05/17/13
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15	0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 100 ml 1%HNO3 / 5%HCl					Prepared in 50 ml 1%HNO3/5%HCl				
STD 2 / CCV1 6010B/6010C/6010C					6010B/6010C ICV				
AMOUNT	STD	PREP DATE	EXP DATE		0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
25mL	STD 3	Today	1 week		0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
25mL	1%HNO3/5%HCl	Today	1 week		Prepared in 50ml 1%HNO3/5%HCl				
CCV2 6010B/6010C									
AMOUNT	STD	PREP DATE	EXP DATE						
15mL	STD 3	Today	1 week						
25mL	1%HNO3/5%HCl	Today	1 week						

EA 12-11-12

EA 12/12/12

6010B-C

12/11/12

12/11/13

NM

A

1%HNO3 / 5%HCl BLK					6010B/6010C ICSA				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
100 mL	HCL	EMD	UN1789-265	10/22/12	1mL	Al	CPI	11J015-30092	05/28/13
20 mL	HNO3	JT BAKER	L10023-266	10/24/12	1mL	Ca	CPI	11J031-29989	05/14/13
Prepared in 2000 ml DI Water					1mL	Mg	CPI	11K178-30093	05/28/13
STD 1 / LDL 6010B/6010C					1mL	Fe	O2SI	1030787-30616	05/17/13
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	Prepared in 50 ml 1%HNO3/5%HCl				
0.5 mL	6010 LDL	O2SI	1039165-31300	10/01/13	6010B/6010C ICSAB				
Prepared in 50 ml 1%HNO3/5%HCl					1mL	Al	CPI	11J015-30092	05/28/13
STD 3 / HDL 6010B/6010C					1mL	Ca	CPI	11J031-29989	05/14/13
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15	1mL	Mg	CPI	11K178-30093	05/28/13
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15	1mL	Fe	O2SI	1030787-30616	05/17/13
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15	0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 100 ml 1%HNO3 / 5%HCl					Prepared in 50 ml 1%HNO3/5%HCl				
STD 2 / CCV1 6010B/6010C/6010C					6010B/6010C ICV				
AMOUNT	STD	PREP DATE	EXP DATE		0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
25mL	STD 3	Today	1 week		0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
25mL	1%HNO3/5%HCl	Today	1 week		Prepared in 50ml 1%HNO3/5%HCl				
CCV2 6010B/6010C									
AMOUNT	STD	PREP DATE	EXP DATE						
15mL	STD 3	Today	1 week						
25mL	1%HNO3/5%HCl	Today	1 week						

EA 12-12-12

6010B-C

A

IEC SPIKES EACH PREPARED SEPARATELY IN 10mL 1% HNO3 / 5% HCl PREP:TODAY, EXP 1 WEEK

STD		AMOUNT (mL)	CONC (ug/mL)	MANUFACTURER	LOT	EXP DATE	CONC Final (ug/mL)
Al		0.2	10000	CPI	11J015-30092	05/28/13	200
Ca		0.2	10000	CPI	11J031-29989	05/14/13	200
Fe		0.2	10000	O2SI	1030787-30616	05/17/13	200
Mg		0.2	10000	CPI	11K178-30093	05/28/13	200
Na		0.2	10000	O2SI	1036027-30752	11/03/13	200
K		2	1000	O2SI	1032437-30266	07/19/13	200
Co		1	1000	CPI	11K232-30304	7/26/13	100
Cr		1	1000	CPI	11G081-29343	02/05/13	100
Cu		1	1000	CPI	11J085-30302	07/26/13	100
Mo		1	1000	CPI	11H133-31306	03/11/14	100
Ni		1	1000	CPI	12B006-30771	11/16/13	100
Ti		1	1000	CPI	11K007-30299	07/26/13	100
Tl		1	1000	CPI	12B176-30772	11/16/13	100
V		1	1000	CPI	12C220-30773	11/16/13	100
Zn		1	1000	CPI	11K239-30303	07/26/13	100
Mn		1	1000	CPI	12F026-31304	03/11/14	100

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121128B **Units** mL

Spikes	
Spiked ID 1	LCSW LOT# 1039704-31514
Spiked ID 2	LCSW LOT# 1039705-31515
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 11/28/12 9:35:00 AM
Witnessed By	BC Date: 11/28/12 9:35:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	11/28/12 14:30

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121128B Blk				2.50g	100mL	11/28/12 9:35	equip: Modblock4
2	121128B LCS		1mL	1+2	2.50g	100mL	11/28/12 9:35	equip: Modblock4
3	AY71798	AY71798M01			2.44g	100mL	11/28/12 9:35	equip: Modblock4
4	AY71801	AY71801M01			2.50g	100mL	11/28/12 9:35	equip: Modblock4
5	AY71804	AY71804M01			2.50g	100mL	11/28/12 9:35	equip: Modblock4
6	AY71931	AY71931M01			2.59g	100mL	11/28/12 9:35	equip: Modblock4
7	AY71934	AY71934M01			2.52g	100mL	11/28/12 9:35	equip: Modblock4
8	AY72096	AY72096M01			2.52g	100mL	11/28/12 9:35	equip: Modblock4
9	AY72099	AY72099M01			2.53g	100mL	11/28/12 9:35	equip: Modblock4
10	AY72102	AY72102M01			2.46g	100mL	11/28/12 9:35	equip: Modblock4
11	AY72102 MS	AY72102M01	2mL	1+2	2.46g	100mL	11/28/12 9:35	equip: Modblock4
12	AY72102 MSD	AY72102M01	2mL	1+2	2.46g	100mL	11/28/12 9:35	equip: Modblock4

Solvent and Lot#
1:1 HNO3 11-9-12
HNO3 J.T.B. L10023 0279
H2O2 EMD K20J00 0254
HCL EMD Lot# 4112030 0277

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	EA
Date	11-28-12
Time	1430
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	11/28/12 10:06:32 AM

Reviewed By: EA **Date:** 11-28-12

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121210A **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 1039704-31514		
Spiked ID 2	LCSW LOT# 1039705-31515		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	12/10/12 9:00:00 AM
Witnessed By	RJS	Date:	12/10/12 9:00:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	12/10/12 15:00

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121210A Blk				2.50g	100mL	12/10/12 9:00	equip: Modblock4
2	121210A LCS		1mL	1+2	2.50g	100mL	12/10/12 9:00	equip: Modblock4
3	AY72095	AY72095M01			2.02g	100mL	12/10/12 9:00	equip: Modblock4
4	AY72098	AY72098M01			2.04g	100mL	12/10/12 9:00	equip: Modblock4
5	AY72101	AY72101M01			2.13g	100mL	12/10/12 9:00	equip: Modblock4
6	AY72185	AY72185M01			2.00g	100mL	12/10/12 9:00	equip: Modblock4
7	AY72188	AY72188M01			2.06g	100mL	12/10/12 9:00	equip: Modblock4
8	AY72368	AY72368M01			2.00g	100mL	12/10/12 9:00	equip: Modblock4

Solvent and Lot#
1:1 HNO3 11-9-12
HNO3 J.T.B. L10023 0281
H2O2 EMD K20J00 0254
HCL EMD Lot# 4112030 0282

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	RA
Date	12-10-12
Time	15:00
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	12/10/12 9:39:37 AM

Reviewed By: RA **Date:** 12-10-12

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	28 Nov 2012	15:17	CalBlk 121128EA I:PB O:EA		121128A6010	1.
2	28 Nov 2012	15:21	STD 1 121128EA I:PB O:EA		121128A6010	1.
3	28 Nov 2012	15:25	STD 2 121128EA I:PB O:EA		121128A6010	1.
4	28 Nov 2012	15:29	STD 3 121128EA I:PB O:EA		121128A6010	1.
5	28 Nov 2012	15:38	ICV 121128EA I:PB O:EA		121128A6010	1.
6	28 Nov 2012	15:42	ICB 121128EA I:PB O:EA		121128A6010	1.
8	28 Nov 2012	15:51	ICSA 121128EA I:PB O:EA		121128A6010	1.
9	28 Nov 2012	15:56	ICSAB 121128EA I:PB O:EA		121128A6010	1.
10	28 Nov 2012	16:18	CCV1 121128EA I:PB O:EA		121128A6010	1.
11	28 Nov 2012	16:22	CCB 121128EA I:PB O:EA		121128A6010	1.
30	28 Nov 2012	18:18	CCV1 121128EA I:PB O:EA		121128A6010	1.
31	28 Nov 2012	18:26	CCB 121128EA I:PB O:EA		121128A6010	1.
34	28 Nov 2012	18:41	121128B-3050-BLK		121128A6010	1.
35	28 Nov 2012	18:45	121128B-3050-LCS		121128A6010	1.
41	28 Nov 2012	19:18	AY72096M01		121128A6010	1.
42	28 Nov 2012	19:25	CCV2 121128EA I:PB O:EA		121128A6010	1.
43	28 Nov 2012	19:32	CCB 121128EA I:PB O:EA		121128A6010	1.
44	28 Nov 2012	19:36	AY72099M01		121128A6010	1.
45	28 Nov 2012	19:42	AY72102M01		121128A6010	1.
46	28 Nov 2012	19:47	AY72102M01-A		121128A6010	1.
48	28 Nov 2012	20:00	CCV1 121128EA I:PB O:EA		121128A6010	1.
49	28 Nov 2012	20:08	CCB 121128EA I:PB O:EA		121128A6010	1.

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	11 Dec 2012	10:06	CalBlk 121211EA I:PB O:EA		121211A6010	1.
2	11 Dec 2012	10:10	STD 1 121211EA I:PB O:EA		121211A6010	1.
3	11 Dec 2012	10:14	STD 2 121211EA I:PB O:EA		121211A6010	1.
4	11 Dec 2012	10:18	STD 3 121211EA I:PB O:EA		121211A6010	1.
5	11 Dec 2012	10:26	ICV 121211EA I:PB O:EA		121211A6010	1.
6	11 Dec 2012	10:30	ICB 121211EA I:PB O:EA		121211A6010	1.
8	11 Dec 2012	10:39	ICSA 121211EA I:PB O:EA		121211A6010	1.
9	11 Dec 2012	10:44	ICSAB 121211EA I:PB O:EA		121211A6010	1.
10	11 Dec 2012	10:48	CCV1 121211EA I:PB O:EA		121211A6010	1.
11	11 Dec 2012	10:53	CCB 121211EA I:PB O:EA		121211A6010	1.
112	11 Dec 2012	19:11	CCV1 121211EA I:PB O:EA		121211A6010	1.
113	11 Dec 2012	19:15	CCB 121211EA I:PB O:EA		121211A6010	1.
114	11 Dec 2012	19:19	121210A-3050-BLK		121211A6010	1.
115	11 Dec 2012	19:23	121210A-3050-LCS		121211A6010	1.
116	11 Dec 2012	19:28	AY72095M01		121211A6010	1.
117	11 Dec 2012	19:33	AY72098M01		121211A6010	1.
118	11 Dec 2012	19:39	AY72101M01		121211A6010	1.
124	11 Dec 2012	20:12	CCV2 121211EA I:PB O:EA		121211A6010	1.
125	11 Dec 2012	20:19	CCB 121211EA I:PB O:EA		121211A6010	1.

Wetlab Results

ARF: 69340

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
APPL ID: AY72096	-Client Sample ID: GT12027L		-Sample Collection Date: 11/17/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	74.8	2.0	%	12/04/12	12/04/12
APPL ID: AY72099	-Client Sample ID: GT12028L		-Sample Collection Date: 11/17/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	64.3	2.0	%	12/04/12	12/04/12
APPL ID: AY72102	-Client Sample ID: GT12029L		-Sample Collection Date: 11/17/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	69.5	2.0	%	12/04/12	12/04/12

Printed: 12/13/12 9:37:07 AM

% Moisture

Batch: QCG 121204-M004568

Method: CLP 4.0

Date: 12/04/12 10:39

Sample	Container	Pan (g)	Pan+Wet (g)	Pan+Dry 1 (g)	Pan+Dry 2 (g)	Moisture (%)	Comments
AY72102	m01	0.8378	8.3387	3.1364	3.1281	69.466	AY72102M01
		12/04/12 10:39	12/04/12 10:40	12/04/12 14:48	12/04/12 16:15		
AY72099	m01	0.8340	8.0424	3.4183	3.4062	64.317	AY72099M01
		12/04/12 10:38	12/04/12 10:38	12/04/12 14:48	12/04/12 16:14		
AY72096	m01	0.8355	7.2373	2.4497	2.4461	74.841	AY72096M01
		12/04/12 10:35	12/04/12 10:38	12/04/12 14:48	12/04/12 16:09		
AY71934	m01	0.8335	9.6022	3.3541	3.3431	71.380	AY71934M01
		12/04/12 10:34	12/04/12 10:35	12/04/12 14:47	12/04/12 16:12		
AY71931	m01	0.8383	7.7219	2.7207	2.7139	72.753	AY71931M01
		12/04/12 10:33	12/04/12 10:33	12/04/12 14:47	12/04/12 16:08		
AY71804	m01	0.8389	7.9734	2.5520	2.5407	76.147	AY71804M01
		12/04/12 10:32	12/04/12 10:32	12/04/12 14:47	12/04/12 16:11		
AY71801	m01	0.8411	7.8151	2.3310	2.3243	78.732	AY71801M01
		12/04/12 10:31	12/04/12 10:31	12/04/12 14:47	12/04/12 16:11		
AY71798D	m01	0.8345	6.9356	2.9230	2.9124	65.942	AY71798M01
		12/04/12 10:29	12/04/12 10:30	12/04/12 14:47	12/04/12 16:11		
AY71798	m01	0.8351	7.2537	2.9495	2.9497	67.055	AY71798M01
		12/04/12 08:53	12/04/12 10:29	12/04/12 14:47	12/04/12 16:10		

Date/Time InOven@104°C	Date/Time OutOven@104°C	Date/Time InOven@104°C	Date/Time OutOven@104°C
12/04/12 10:41:00 AM	12/04/12 2:47:00 PM	12/04/12 2:49:00 PM	12/04/12 4:08:00 PM

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
11/29/12	BB	Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	yes
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0004 g	19.9800	20.0200	
		Mettler AT200	50g	50.0005 g	49.9500	50.0500	
		Mettler AT200	100g	100.0012 g	99.9000	100.1000	
		Mettler AT200	150g	150.0016 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.01 g	980.00	1020.00	
↓	↓	OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	↓
11/30/12	BB						yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0003 g	19.9800	20.0200	
		Mettler AT200	50g	50.0005 g	49.9500	50.0500	
		Mettler AT200	100g	100.0010 g	99.9000	100.1000	
		Mettler AT200	150g	150.0015 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
↓	↓	OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	↓
12/3/12	AP	Mettler AT200	0.5g	0.5000g	0.4995	0.5005	yes
		Mettler AT200	1g	1.0001 g	0.9990	1.0010	
		Mettler AT200	20g	20.0000g	19.9800	20.0200	
		Mettler AT200	50g	50.0005g	49.9500	50.0500	
		Mettler AT200	100g	100.0009 g	99.9000	100.1000	
		Mettler AT200	150g	150.0014 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	999.99 g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.99 g	1960.00	2040.00	
12/4/12	BB						yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0000 g	19.9800	20.0200	
		Mettler AT200	50g	50.0001 g	49.9500	50.0500	
		Mettler AT200	100g	100.0004 g	99.9000	100.1000	
		Mettler AT200	150g	150.0005 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	999.98 g	980.00	1020.00	
↓	↓	OHAUS ARC120	2kg	1999.96 g	1960.00	2040.00	↓

Laboratory Report

Parsons

Project #: 748350.02000 CSSA

ARF: 69341

Samples collected: November 17, 2012

APPL, Inc.

Data Validatable Package

for

Project #: 748350.02000 CSSA

ARF 69341

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CASE NARRATIVE

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

EPA Method 6010B
Metals

Case Narrative

ARF: 69341

Project: 748350.02000 CSSA

California State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Texas Certificate Number: T104704242-10-3

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

The samples were received November 20, 2012, at 3.0°C. The samples were assigned Analytical Request Form (ARF) number 69341. The sample numbers and requested analysis were compared to the chains of custody. No exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
GT12027M	AY72097	MISC	11/17/12	11/20/12
GT12028M	AY72100	MISC	11/17/12	11/20/12
GT12029M	AY72103	MISC	11/17/12	11/20/12

Percent moisture was determined using CLP 4.0.

Digestion Information:

The miscellaneous samples were frozen and homogenized according to APPL's SOP PRE003. An aliquot of the homogenized sample was digested according to EPA method 3050B. Since the laboratory was unable to obtain a similar clean matrix, the blank and the LCS were digested according to APPL's SOP PRE3050B. No other exception was encountered. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed according to EPA method 6010B using a Perkin Elmer Optima 5300DV ICP.

Calibrations:

Calibrations were performed according to the method for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard. All other calibration acceptance criteria were met.

Blanks:

No target metal was detected above the reporting limit (RL) in the method blank.

Spikes:

Laboratory Control Spike (LCS), post-digestion spike (PDS), and dilution test were used for quality assurance. All LCS acceptance criteria were met.

Sample GT12029M was selected by the laboratory as the QC sample for the analytical batch. The DT was not applicable. The PDS met acceptance criteria.

Summary:

No analytical exception is noted. The data generated are acceptable.

CERTIFICATION

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. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

12-4-12

Sharon Dehmlow, Laboratory Director / Date

Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other - explain
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel.
Y	Percent difference between primary and confirmation column > 40%

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 69341

lient: **Parsons**
ddress: **8000 Centre Park Drive Ste 200**
Austin, TX 78754
ttn: **Tammy Chang**
hone: **512-719-6092** Fax: **512-719-6099**
)b: **748350.02000 CSSA**
O #: **748350.30002 (prime *G012)**
hain of Custody (Y/N): **Y** # **111912APPFA**
AD Screen (Y/N): **Y** pH (Y/N): **N**
ırn Around Type: **7 DAYS**

Received by: **WLA**
Date Received: **11/20/12** Time: **16:30**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-6**
Chest Temp(s): **3.0°C**
Color: **A_FREZ**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Diane Anderson** np
QC Report Type: **DVP4/AFCEE/ERPIMS/TX**
Due Date: **11/27/12**

omments:
elim muscle (meat) data due in 7 calendar days; final report due in 14 calendar days.
If ARF to Tammy & Pam; send 1 DVP3 HC & send DVP3 & DVP4 on CD to Tammy.

ase Narrative. CSSA QAPP. Only report MS/MSD when requested.
eport results on APPL forms: U to the RL-no J values; report results in wet weight (without moisture
'ait to do moisture analysis after metals analysis.
)D: ERPIMS 4 Lab PC4 checked TXF to Pam.Ford@parsons.com

11-26 Sent ARF's

ample Distribution:
etals: 3-$6010BDODS(Pb)
etlab: 3-MOIST /
her: 3-_M3050

Charges:

Invoice To:
PARSONS GOV'T SERV.
8000 Centre Park Drive Ste 200
Austin, TX 78754-5140
Attn: Ellen Felfe

Client ID	APPL ID	Sampled	Analyses Requested
GT12027M	AY72097M	11/17/12 08:00	$6010BDODS(Pb), MOIST
GT12028M	AY72100M	11/17/12 09:00	$6010BDODS(Pb), MOIST
GT12029M	AY72103M	11/17/12 12:00	$6010BDODS(Pb), MOIST

Note: All times, excluding sample collection times, are Pacific Time Zone unless noted otherwise. Collection times are in: -6 UTC

APPL Sample Receipt Form

ARF# **69341**

Sample	Container Type	Count	pH
AY72097	35 Plastic Bag	1	NA
AY72100	35 Plastic Bag	1	NA
AY72103	35 Plastic Bag	1	NA

Sample	Container Type	Count	pH

3.0°C

69341

Camp Stanley Storage Activity Chain Of Custody

COC ID:	111912APPFA	Relinquish_Date:	11/19/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF
Job Number:	748350.02000	Relinquish_Time:	4:30 PM	Carrier:	FedEx
Creation Date:	11/19/2012	Collection Team:	SE	Airbill Carrier:	876436444101
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): Sam Elliott

Sam Elliott

LOCID:	GT12027B	LOGDATE:	11/17/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	8:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT12027B_111712_N0800					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12027L	LOGDATE:	11/17/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	8:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT12027L_111712_N0800					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12027M	LOGDATE:	11/17/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	8:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT12027M_111712_N0800					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12028B	LOGDATE:	11/17/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	9:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT12028B_111712_N0900					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12028L	LOGDATE:	11/17/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	9:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT12028L_111712_N0900					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12028M	LOGDATE:	11/17/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	9:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT12028M_111712_N0900					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12029B	LOGDATE:	11/17/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	12:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT12029B_111712_N1200					EBLOT:	Containers:	1
Remarks:										

LOCID:	GT12029L	LOGDATE:	11/17/2012	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	12:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT12029L_111712_N1200					EBLOT:	Containers:	1
Remarks:										

Relinquished by: [signature] Date 11/19/12 Time 1630

Recieved by: [signature] Date 11/20/12 Time 1620

Relinquished by: _____ Date _____ Time _____

Recieved by: _____ Date _____ Time _____

Relinquished by: _____ Date _____ Time _____

Recieved by: _____ Date _____ Time _____

Camp Stanley Storage Activity Chain Of Custody

COC ID:	111912APPFA	Relinquish_Date:	11/19/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF
Job Number:	748350.02000	Relinquish_Time:	4:30 PM	Carrier:	FedEx
Creation Date:	11/19/2012	Collection Team:	SE	Airbill Carrier:	876436444101
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): Sam Elliott

LOCID: **GT12029M** LOGDATE: **11/17/2012** MATRIX: **TA** TBLOT:

SBD: **0** LOGTIME: **12:00** SACODE: **N** SMCODE: **G** ABLOT:

SED: **0** FLDSAMPID **GT12029M_111712_N1200** EBLOT: Containers: 1

Remarks:

Analysis Required:

SW6010B LEAD

Relinquished by: S. Elliott Date 11/19/12 Time 1630

Recieved by: _____ Date _____ Time _____

Relinquished by: _____ Date _____ Time _____

Recieved by: _____ Date 11/20/12 Time 1620

Relinquished by: _____ Date _____ Time _____

Recieved by: _____ Date _____ Time _____

COOLER RECEIPT FORM

1) Project: 748350.02000 CSSA Date Received: 11/20/12

2) Coolers: Number of Coolers: 1

3) YES NO Were coolers and samples screened for radioactivity?

4) YES NO Were custody seals on outside of cooler? How many? 1 Date on seal? 11/19/12

5) Name on seal? See Label

6) YES NO NA Were custody seals unbroken and intact at the time of arrival?

7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex

8) Shipping slip numbers: 1) 8764 3644 4101 2) 3)

9) YES NO NA Was the shipping slip scanned into the database?

10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Ziploc in wet ice

12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?

13) YES NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: A39267 Correction factor: 0

15) Cooler temp(s): 1) 3.0°C 2) 3) 4) 5) 6) 7) 8)

Chain of custody:

16) YES NO Was a chain of custody received?

17) YES NO Were the custody papers signed in the appropriate places?

18) YES NO Was the project identifiable from custody papers?

19) YES NO Did the chain of custody include date and time of sampling?

20) YES NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) YES NO Were container labels in good condition?

22) YES NO Was the client ID on the label?

23) YES NO Was the date of sampling on the label?

24) YES NO Was the time of sampling on the label?

25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?

27) YES NO Did all containers arrive unbroken?

28) YES NO Was there any leakage from samples?

29) YES NO Were any of the lids cracked or broken?

30) YES NO Were correct containers used for the tests indicated?

31) YES NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea:

Smaller than a pea:

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO NA Unpreserved VOA Vials received?

38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

Lab notified if pH was not adequate:

Deficiencies:

Signature of personnel receiving samples: Second reviewer:

Signature of project manager notified: Date and Time of notification:

Name of client notified: Date and Time of notification:

Information given to client:

by whom (Initials):

CUSTODY SEAL

APPL, Inc.

(559) 275-2175

Initials

Date 11/19/12

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/27/12	11/27/12	#6010B-121127A-AY72103

Metals SC-Blank-REG MDLs
Printed: 11/29/12 9:50:25 AM

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.4	104	80-120	11/27/12	11/27/12	#6010B-121127A-AY72103

Comments: _____

METALS
Sample Data

APPL, INC.

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12027M
Sample Collection Date: 11/17/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69341
APPL ID: AY72097

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/27/12	11/27/12

Printed: 11/29/12 9:50:21 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 41
Sample ID: AY72097M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.45 g
Dilution:

Autosampler Location: 98
Date Collected: 11/27/12 7:08:48 PM
Data Type: Reprocessed on 11/28/12 2:45:17 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72097M01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	211.5	1.670	ug/L	1.1466	0.068	mg/kg	0.0468	68.66%
Al 308.215	32.6	17.93	ug/L	8.253	0.732	mg/kg	0.3369	46.04%
As 188.979	9.5	1.768	ug/L	0.8720	0.072	mg/kg	0.0356	49.31%
B	19.9	7.208	ug/L	1.3463	0.294	mg/kg	0.0550	18.68%
Ba 233.527	279.9	1.164	ug/L	0.0390	0.048	mg/kg	0.0016	3.35%
Be 313.107	-399.6	-0.062	ug/L	0.0140	-0.003	mg/kg	0.0006	22.61%
Ca 315.887	15753.1	1187	ug/L	54.8	48.46	mg/kg	2.237	4.62%
Cd 214.440	213.3	0.482	ug/L	0.0699	0.020	mg/kg	0.0029	14.51%
Co 228.616	26.6	0.310	ug/L	0.2037	0.013	mg/kg	0.0083	65.71%
Cr 267.716	418.2	2.853	ug/L	0.2923	0.116	mg/kg	0.0119	10.24%
Cu 327.393	4304.7	42.25	ug/L	0.437	1.724	mg/kg	0.0179	1.04%
Fe 273.955	19550.6	710.9	ug/L	1.61	29.02	mg/kg	0.066	0.23%
K 766.490	169020.4	71370	ug/L	609.7	2913	mg/kg	24.9	0.85%
Mg 285.213	108945.9	5270	ug/L	50.0	215.1	mg/kg	2.04	0.95%
Mn 257.610	253.8	4.218	ug/L	0.0801	0.172	mg/kg	0.0033	1.90%
Mo 202.031	52.0	1.352	ug/L	0.1536	0.055	mg/kg	0.0063	11.36%
Na 589.592	103025.5	7584	ug/L	61.4	309.5	mg/kg	2.51	0.81%
Ni 231.604	-27.1	-0.475	ug/L	0.1179	-0.019	mg/kg	0.0048	24.81%
P 213.617	314206.7	42880	ug/L	246.7	1750	mg/kg	10.1	0.58%
Pb 220.353	-34.5	-2.219	ug/L	0.1985	-0.091	mg/kg	0.0081	8.94%
Sb 206.836	-6.3	-0.939	ug/L	1.3701	-0.038	mg/kg	0.0559	145.91%
Se 196.026	38.9	7.674	ug/L	1.0956	0.313	mg/kg	0.0447	14.28%
Sn 189.927	-59.5	-7.458	ug/L	1.0717	-0.304	mg/kg	0.0437	14.37%
Sr 421.552	1403.7	1.535	ug/L	0.0295	0.063	mg/kg	0.0012	1.92%
Ti 337.279	93.1	1.599	ug/L	0.1375	0.065	mg/kg	0.0056	8.60%
Tl 190.801	-16.2	-2.374	ug/L	0.4617	-0.097	mg/kg	0.0188	19.44%
V 292.402	-124.6	-0.745	ug/L	0.2695	-0.030	mg/kg	0.0110	36.20%
Zn 206.200	96568.0	1023	ug/L	2.8	41.74	mg/kg	0.116	0.28%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12028M
Sample Collection Date: 11/17/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69341
APPL ID: AY72100

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/27/12	11/27/12

Printed: 11/29/12 9:50:21 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 44
Sample ID: AY72100M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.47 g
Dilution:

Autosampler Location: 99
Date Collected: 11/27/12 7:27:40 PM
Data Type: Reprocessed on 11/28/12 2:45:20 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72100M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	169.9	1.341	ug/L	1.0604	0.054	mg/kg	0.0429	79.08%
Al 308.215	27.9	15.34	ug/L	10.354	0.621	mg/kg	0.4192	67.50%
As 188.979	6.8	1.269	ug/L	1.0398	0.051	mg/kg	0.0421	81.92%
B	57.5	15.86	ug/L	1.205	0.642	mg/kg	0.0488	7.60%
Ba 233.527	258.3	1.060	ug/L	0.0510	0.043	mg/kg	0.0021	4.81%
Be 313.107	-376.3	-0.058	ug/L	0.0128	-0.002	mg/kg	0.0005	21.98%
Ca 315.887	16386.7	1234	ug/L	7.3	49.97	mg/kg	0.297	0.59%
Cd 214.440	162.6	0.340	ug/L	0.0030	0.014	mg/kg	0.0001	0.87%
Co 228.616	32.8	0.393	ug/L	0.1584	0.016	mg/kg	0.0064	40.32%
Cr 267.716	422.6	2.883	ug/L	0.2235	0.117	mg/kg	0.0090	7.75%
Cu 327.393	2920.2	28.66	ug/L	0.427	1.160	mg/kg	0.0173	1.49%
Fe 273.955	17710.7	643.4	ug/L	5.53	26.05	mg/kg	0.224	0.86%
K 766.490	198842.9	83960	ug/L	661.7	3399	mg/kg	26.8	0.79%
Mg 285.213	128563.0	6219	ug/L	29.7	251.8	mg/kg	1.20	0.48%
Mn 257.610	199.5	3.204	ug/L	0.1161	0.130	mg/kg	0.0047	3.62%
Mo 202.031	74.4	1.894	ug/L	0.1813	0.077	mg/kg	0.0073	9.58%
Na 589.592	98010.2	7208	ug/L	15.3	291.8	mg/kg	0.62	0.21%
Ni 231.604	29.3	0.363	ug/L	0.1871	0.015	mg/kg	0.0076	51.56%
P 213.617	335217.6	45740	ug/L	171.9	1852	mg/kg	7.0	0.38%
Pb 220.353	-32.1	-2.065	ug/L	0.2147	-0.084	mg/kg	0.0087	10.40%
Sb 206.836	-2.9	-0.428	ug/L	0.9655	-0.017	mg/kg	0.0391	225.47%
Se 196.026	40.0	7.894	ug/L	0.9416	0.320	mg/kg	0.0381	11.93%
Sn 189.927	-60.5	-7.584	ug/L	1.2079	-0.307	mg/kg	0.0489	15.93%
Sr 421.552	846.4	1.040	ug/L	0.1171	0.042	mg/kg	0.0047	11.26%
Ti 337.279	82.0	1.295	ug/L	0.1956	0.052	mg/kg	0.0079	15.11%
Tl 190.801	-6.4	-0.941	ug/L	0.8855	-0.038	mg/kg	0.0359	94.12%
V 292.402	-191.9	-1.022	ug/L	0.2856	-0.041	mg/kg	0.0116	27.94%
Zn 206.200	139597.8	1478	ug/L	3.9	59.84	mg/kg	0.159	0.27%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12029M
Sample Collection Date: 11/17/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69341
APPL ID: AY72103

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	11/27/12	11/27/12

Printed: 11/29/12 9:50:21 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 45
Sample ID: AY72103M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.57 g
Dilution:

Autosampler Location: 100
Date Collected: 11/27/12 7:33:03 PM
Data Type: Reprocessed on 11/28/12 2:45:21 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72103M01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	132.9	1.050	ug/L	0.4706	0.041	mg/kg	0.0183	44.84%
Al 308.215	42.2	23.19	ug/L	5.813	0.902	mg/kg	0.2262	25.06%
As 188.979	7.9	1.466	ug/L	0.7513	0.057	mg/kg	0.0292	51.25%
B	19.9	7.061	ug/L	2.9930	0.275	mg/kg	0.1165	42.39%
Ba 233.527	295.4	1.271	ug/L	0.0172	0.049	mg/kg	0.0007	1.35%
Be 313.107	-322.0	-0.050	ug/L	0.0178	-0.002	mg/kg	0.0007	35.80%
Ca 315.887	19828.3	1495	ug/L	2.4	58.16	mg/kg	0.095	0.16%
Cd 214.440	165.4	0.348	ug/L	0.0256	0.014	mg/kg	0.0010	7.36%
Co 228.616	17.7	0.179	ug/L	0.2321	0.007	mg/kg	0.0090	129.99%
Cr 267.716	408.4	2.786	ug/L	0.1504	0.108	mg/kg	0.0059	5.40%
Cu 327.393	4635.1	45.49	ug/L	1.184	1.770	mg/kg	0.0461	2.60%
Fe 273.955	18147.2	659.3	ug/L	8.25	25.65	mg/kg	0.321	1.25%
K 766.490	197495.8	83390	ug/L	1092.3	3245	mg/kg	42.5	1.31%
Mg 285.213	123851.5	5991	ug/L	62.4	233.1	mg/kg	2.43	1.04%
Mn 257.610	286.0	4.739	ug/L	0.1270	0.184	mg/kg	0.0049	2.68%
Mo 202.031	48.1	1.303	ug/L	0.2405	0.051	mg/kg	0.0094	18.47%
Na 589.592	139566.7	10280	ug/L	137.7	400.0	mg/kg	5.36	1.34%
Ni 231.604	44.4	0.589	ug/L	0.2986	0.023	mg/kg	0.0116	50.65%
P 213.617	356343.6	48630	ug/L	635.1	1892	mg/kg	24.7	1.31%
Pb 220.353	-27.2	-1.753	ug/L	0.5462	-0.068	mg/kg	0.0213	31.15%
Sb 206.836	-4.8	-0.722	ug/L	1.0486	-0.028	mg/kg	0.0408	145.27%
Se 196.026	54.5	10.76	ug/L	1.921	0.419	mg/kg	0.0747	17.86%
Sn 189.927	-72.5	-9.091	ug/L	0.9165	-0.354	mg/kg	0.0357	10.08%
Sr 421.552	1692.8	1.841	ug/L	0.2349	0.072	mg/kg	0.0091	12.76%
Ti 337.279	58.2	0.797	ug/L	0.2178	0.031	mg/kg	0.0085	27.34%
Tl 190.801	-8.1	-1.193	ug/L	0.2386	-0.046	mg/kg	0.0093	20.00%
V 292.402	-153.5	-0.877	ug/L	0.3091	-0.034	mg/kg	0.0120	35.24%
Zn 206.200	125153.3	1325	ug/L	14.3	51.56	mg/kg	0.555	1.08%

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69341 SDG: 69341
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/27/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 16:03	%R(1)	True CCV1	Found 16:22	%R(1)	True CCV1	Found 18:14	%R(1)	
Lead (Pb)	1000	1067	107	1000	1027	103	1000	1040	104	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69341 SDG: 69341
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 11/27/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 16:03	%R(1)	True CCV2	Found 19:16	%R(1)	True CCV1	Found 19:57	%R(1)	
Lead (Pb)	1000	1067	107	750	811.4	108	1000	1061	106	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69341 SDG: 69341

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 11/27/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C			
	16:06		16:28		18:17		19:23		18:21				
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U	P		

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69341 SDG: 69341

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 11/27/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	16:06		20:05						18:21		
Lead (Pb)	5.00	U	5.00	U					.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name:	A.P.P.L. INC.	Contract:	Parsons
ARF No.:	69341	SDG:	69341
ICP ID Number:	Phoebe	ICS Source:	Environmental Express

Analysis Date: 11/27/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 16:14	Sol AB 16:18	%R(1)
Aluminum (Al)	200000	200000	194000	191500	95.8
Calcium (Ca)	200000	200000	198000	198600	99.3
Iron (Fe)	200000	200000	181000	182400	91.2
Magnesium (Mg)	200000	200000	191900	202000	101
Lead (Pb)		1000	ND	956.7	95.7

(1) Control Limits: Metals 80-120

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

GT12029M

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69341 SDG: 69341

Analysis Date: 11/27/12 Concentration Units: mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	19.39		ND		19.455	99.7		

Comments:

11/27/12 19:33 AY72103M01

11/27/12 19:47 AY72103M01-A

Sequence No.: 48
Sample ID: AY72103M01-A
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.57 g
Dilution:

Autosampler Location: 103
Date Collected: 11/27/12 7:47:31 PM
Data Type: Reprocessed on 11/28/12 2:45:24 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72103M01-A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	23504.5	185.6	ug/L	2.92	7.220	mg/kg	0.1138	1.58%
Al 308.215	6785.8	3706	ug/L	87.4	144.2	mg/kg	3.40	2.36%
As 188.979	2432.4	451.4	ug/L	1.22	17.56	mg/kg	0.048	0.27%
B	2049.6	489.5	ug/L	13.93	19.05	mg/kg	0.542	2.85%
Ba 233.527	82002.1	484.0	ug/L	2.23	18.83	mg/kg	0.087	0.46%
Be 313.107	621008.7	95.91	ug/L	0.659	3.732	mg/kg	0.0257	0.69%
Ca 315.887	665700.8	50370	ug/L	380.2	1960	mg/kg	14.8	0.75%
Cd 214.440	36390.7	96.13	ug/L	0.472	3.740	mg/kg	0.0184	0.49%
Co 228.616	36232.3	510.2	ug/L	1.90	19.85	mg/kg	0.074	0.37%
Cr 267.716	72944.8	497.1	ug/L	2.85	19.34	mg/kg	0.111	0.57%
Cu 327.393	55443.3	544.1	ug/L	4.91	21.17	mg/kg	0.191	0.90%
Fe 273.955	70758.8	2536	ug/L	7.7	98.66	mg/kg	0.301	0.31%
K 766.490	209330.7	88380	ug/L	794.5	3439	mg/kg	30.9	0.90%
Mg 285.213	1124768.8	54420	ug/L	383.5	2118	mg/kg	14.9	0.70%
Mn 257.610	29435.8	516.9	ug/L	10.84	20.11	mg/kg	0.422	2.10%
Mo 202.031	22755.7	500.8	ug/L	1.69	19.49	mg/kg	0.066	0.34%
Na 589.592	774134.5	57160	ug/L	393.4	2224	mg/kg	15.3	0.69%
Ni 231.604	33208.8	498.7	ug/L	2.80	19.41	mg/kg	0.109	0.56%
P 213.617	371215.4	50660	ug/L	371.1	1971	mg/kg	14.4	0.73%
Pb 220.353	7743.4	498.4	ug/L	2.72	19.39	mg/kg	0.106	0.55%
Sb 206.836	2878.8	429.1	ug/L	4.44	16.69	mg/kg	0.173	1.03%
Se 196.026	2361.1	466.1	ug/L	3.41	18.14	mg/kg	0.133	0.73%
Sn 189.927	4193.4	526.0	ug/L	2.16	20.46	mg/kg	0.084	0.41%
Sr 421.552	503730.2	481.8	ug/L	3.35	18.75	mg/kg	0.130	0.69%
Ti 337.279	23109.2	488.9	ug/L	8.94	19.02	mg/kg	0.348	1.83%
Tl 190.801	3278.0	480.3	ug/L	2.78	18.69	mg/kg	0.108	0.58%
V 292.402	121030.3	508.7	ug/L	2.23	19.80	mg/kg	0.087	0.44%
Zn 206.200	205560.0	2182	ug/L	6.0	84.89	mg/kg	0.234	0.28%

Sequence No.: 1
Sample ID: CalBlk 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/27/12 3:48:30 PM
Data Type: Reprocessed on 11/28/12 2:44:35 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CalBlk 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-169.3	80.96	47.83%	[0.00]	ug/L
Al 308.215	164.3	7.46	4.54%	[0.00]	ug/L
As 188.979	-3.1	9.45	309.37%	[0.00]	ug/L
B	18.1	6.49	35.84%	[0.00]	ug/L
Ba 233.527	133.0	4.33	3.25%	[0.00]	ug/L
Be 313.107	1663.5	69.78	4.19%	[0.00]	ug/L
Ca 315.887	-433.4	19.15	4.42%	[0.00]	ug/L
Cd 214.440	434.8	11.01	2.53%	[0.00]	ug/L
Co 228.616	78.4	5.02	6.39%	[0.00]	ug/L
Cr 267.716	718.1	13.21	1.84%	[0.00]	ug/L
Cu 327.393	-28.3	43.22	152.54%	[0.00]	ug/L
Fe 273.955	270.4	10.79	3.99%	[0.00]	ug/L
K 766.490	-517.6	66.47	12.84%	[0.00]	ug/L
Mg 285.213	-118.8	12.09	10.17%	[0.00]	ug/L
Mn 257.610	-67.2	6.99	10.41%	[0.00]	ug/L
Mo 202.031	186.8	4.87	2.60%	[0.00]	ug/L
Na 589.592	75.4	113.18	150.04%	[0.00]	ug/L
Ni 231.604	-205.5	16.19	7.88%	[0.00]	ug/L
P 213.617	54.5	8.99	16.50%	[0.00]	ug/L
Pb 220.353	-37.2	4.02	10.81%	[0.00]	ug/L
Sb 206.836	2.4	1.46	59.88%	[0.00]	ug/L
Se 196.026	3.9	7.90	201.02%	[0.00]	ug/L
Sn 189.927	-9.5	2.55	27.02%	[0.00]	ug/L
Sr 421.552	1122.3	95.33	8.49%	[0.00]	ug/L
Ti 337.279	-430.8	17.23	4.00%	[0.00]	ug/L
Tl 190.801	-8.7	1.65	18.92%	[0.00]	ug/L
V 292.402	-683.5	86.70	12.69%	[0.00]	ug/L
Zn 206.200	-571.4	8.33	1.46%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/27/12 3:52:33 PM
Data Type: Reprocessed on 11/28/12 2:44:37 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	103.0	169.03	164.13%	[1.00]	ug/L
Al 308.215	191.5	12.31	6.43%	[100.00]	ug/L
As 188.979	19.2	4.20	21.83%	[3.50]	ug/L
B	223.4	7.45	3.34%	[50.00]	ug/L
Ba 233.527	939.4	15.45	1.65%	[5.00]	ug/L
Be 313.107	14451.2	266.08	1.84%	[2.00]	ug/L
Ca 315.887	1602.3	10.75	0.67%	[100.00]	ug/L
Cd 214.440	2219.6	9.39	0.42%	[5.00]	ug/L
Co 228.616	403.7	14.68	3.64%	[5.00]	ug/L
Cr 267.716	825.9	17.01	2.06%	[5.00]	ug/L
Cu 327.393	503.7	61.74	12.26%	[5.00]	ug/L
Fe 273.955	1530.5	27.06	1.77%	[50.00]	ug/L
K 766.490	2102.1	130.80	6.22%	[1000.00]	ug/L
Mg 285.213	1144.9	10.71	0.94%	[50]	ug/L
Mn 257.610	316.8	4.90	1.55%	[5.00]	ug/L
Mo 202.031	238.5	14.41	6.04%	[5.00]	ug/L
Na 589.592	14671.9	190.00	1.30%	[1000.00]	ug/L
Ni 231.604	400.3	5.24	1.31%	[5.00]	ug/L
P 213.617	189.6	3.21	1.69%	[25.00]	ug/L
Pb 220.353	60.8	8.19	13.48%	[3.00]	ug/L
Sb 206.836	34.9	4.64	13.27%	[5.00]	ug/L
Se 196.026	20.3	4.48	22.11%	[5.00]	ug/L
Sn 189.927	36.2	3.98	11.01%	[5.00]	ug/L
Sr 421.552	5714.0	80.89	1.42%	[5.00]	ug/L
Ti 337.279	234.0	15.40	6.58%	[5.00]	ug/L
Tl 190.801	33.9	3.11	9.18%	[5.00]	ug/L
V 292.402	1287.7	62.62	4.86%	[5.00]	ug/L
Zn 206.200	2375.9	15.46	0.65%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/27/12 3:56:43 PM
Data Type: Reprocessed on 11/28/12 2:44:38 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	64495.2	897.33	1.39%	[500.0]	ug/L
Al 308.215	36968.3	313.85	0.85%	[20000.00]	ug/L
As 188.979	5469.6	20.87	0.38%	[1000.00]	ug/L
B	4253.0	55.71	1.31%	[1000.00]	ug/L
Ba 233.527	173659.4	1999.84	1.15%	[1000.00]	ug/L
Be 313.107	6766569.4	49112.68	0.73%	[1000.00]	ug/L
Ca 315.887	672637.1	6294.51	0.94%	[50000]	ug/L
Cd 214.440	394267.4	5218.50	1.32%	[1000.00]	ug/L
Co 228.616	73125.5	1050.77	1.44%	[1000.00]	ug/L
Cr 267.716	151332.1	1619.50	1.07%	[1000.00]	ug/L
Cu 327.393	103474.9	974.44	0.94%	[1000.00]	ug/L
Fe 273.955	565515.9	7005.08	1.24%	[20000]	ug/L
K 766.490	47358.3	584.83	1.23%	[20000]	ug/L
Mg 285.213	1058864.8	7554.84	0.71%	[50000]	ug/L
Mn 257.610	57872.3	600.72	1.04%	[1000.00]	ug/L
Mo 202.031	47622.3	265.85	0.56%	[1000.00]	ug/L
Na 589.592	341888.7	2613.78	0.76%	[25000]	ug/L
Ni 231.604	68927.7	786.56	1.14%	[1000.00]	ug/L
P 213.617	38163.6	315.34	0.83%	[5000]	ug/L
Pb 220.353	16028.8	201.25	1.26%	[1000.00]	ug/L
Sb 206.836	6837.4	46.21	0.68%	[1000.00]	ug/L
Se 196.026	5186.5	19.59	0.38%	[1000.00]	ug/L
Sn 189.927	8160.9	31.69	0.39%	[1000.00]	ug/L
Sr 421.552	1055752.6	9626.81	0.91%	[1000.00]	ug/L
Ti 337.279	47617.0	610.30	1.28%	[1000.00]	ug/L
Tl 190.801	7012.5	74.30	1.06%	[1000.00]	ug/L
V 292.402	248746.7	2860.97	1.15%	[1000.00]	ug/L
Zn 206.200	98555.6	1301.89	1.32%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 11/27/12 3:59:10 PM
Data Type: Reprocessed on 11/28/12 2:44:39 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	126082.8	2496.37	1.98%	[1000.00]	ug/L
Al 308.215	73201.9	305.10	0.42%	[40000.00]	ug/L
As 188.979	10736.6	95.39	0.89%	[2000.00]	ug/L
B	8463.0	57.24	0.68%	[2000.00]	ug/L
Ba 233.527	335614.6	1964.74	0.59%	[2000.00]	ug/L
Be 313.107	12803933.0	126113.14	0.98%	[2000.00]	ug/L
Ca 315.887	1315440.7	3190.36	0.24%	[100000.0]	ug/L
Cd 214.440	750445.8	4443.82	0.59%	[2000.00]	ug/L
Co 228.616	140817.7	886.11	0.63%	[2000.00]	ug/L
Cr 267.716	291229.2	1711.31	0.59%	[2000.00]	ug/L
Cu 327.393	203006.8	2541.48	1.25%	[2000.00]	ug/L
Fe 273.955	1087559.9	6892.75	0.63%	[40000]	ug/L
K 766.490	94745.2	138.23	0.15%	[40000]	ug/L
Mg 285.213	2054006.6	4931.44	0.24%	[100000]	ug/L
Mn 257.610	112761.8	483.22	0.43%	[2000.00]	ug/L
Mo 202.031	89928.8	722.27	0.80%	[2000.00]	ug/L
Na 589.592	674862.4	1399.20	0.21%	[50000]	ug/L
Ni 231.604	131594.3	1027.50	0.78%	[2000.00]	ug/L
P 213.617	72519.9	788.11	1.09%	[10000]	ug/L
Pb 220.353	30830.2	357.58	1.16%	[2000.00]	ug/L
Sb 206.836	13355.0	102.34	0.77%	[2000.00]	ug/L
Se 196.026	10070.0	67.85	0.67%	[2000.00]	ug/L
Sn 189.927	15851.8	239.60	1.51%	[2000.00]	ug/L
Sr 421.552	2085351.6	3545.37	0.17%	[2000.00]	ug/L
Ti 337.279	94083.3	443.81	0.47%	[2000.00]	ug/L
Tl 190.801	13555.2	88.59	0.65%	[2000.00]	ug/L
V 292.402	482856.5	3689.23	0.76%	[2000.00]	ug/L
Zn 206.200	187001.4	1134.27	0.61%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	126.7	0.00000	0.999958	
Al 308.215	3	Lin Thru 0	0.0	1.834	0.00000	0.999992	
As 188.979	3	Lin Thru 0	0.0	5.389	0.00000	0.999972	
B	3	Lin Thru 0	0.0	4.236	0.00000	0.999997	
Ba 233.527	3	Lin Thru 0	0.0	169.0	0.00000	0.999904	
Be 313.107	3	Lin Thru 0	0.0	6475	0.00000	0.999746	
Ca 315.887	3	Lin Thru 0	0.0	13.21	0.00000	0.999959	
Cd 214.440	3	Lin Thru 0	0.0	379.0	0.00000	0.999798	
Co 228.616	3	Lin Thru 0	0.0	70.95	0.00000	0.999883	
Cr 267.716	3	Lin Thru 0	0.0	146.8	0.00000	0.999879	
Cu 327.393	3	Lin Thru 0	0.0	101.9	0.00000	0.999970	
Fe 273.955	3	Lin Thru 0	0.0	27.41	0.00000	0.999874	
K 766.490	3	Lin Thru 0	0.0	2.368	0.00000	0.999997	
Mg 285.213	3	Lin Thru 0	0.0	20.67	0.00000	0.999924	
Mn 257.610	3	Lin Thru 0	0.0	56.68	0.00000	0.999945	
Mo 202.031	3	Lin Thru 0	0.0	45.50	0.00000	0.999727	
Na 589.592	3	Lin Thru 0	0.0	13.53	0.00000	0.999985	
Ni 231.604	3	Lin Thru 0	0.0	66.42	0.00000	0.999822	
P 213.617	3	Lin Thru 0	0.0	7.328	0.00000	0.999784	
Pb 220.353	3	Lin Thru 0	0.0	15.54	0.00000	0.999875	
Sb 206.836	3	Lin Thru 0	0.0	6.709	0.00000	0.999955	
Se 196.026	3	Lin Thru 0	0.0	5.065	0.00000	0.999928	
Sn 189.927	3	Lin Thru 0	0.0	7.973	0.00000	0.999930	
Sr 421.552	3	Lin Thru 0	0.0	1045	0.00000	0.999987	
Ti 337.279	3	Lin Thru 0	0.0	47.16	0.00000	0.999988	
Tl 190.801	3	Lin Thru 0	0.0	6.825	0.00000	0.999905	

V 292.402	3	Lin Thru 0	0.0	242.9	0.00000	0.999927
Zn 206.200	3	Lin Thru 0	0.0	94.51	0.00000	0.999769

Sequence No.: 5
Sample ID: ICV 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 11/27/12 4:03:51 PM
Data Type: Reprocessed on 11/28/12 2:44:40 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	66057.3	521.5	ug/L	5.55	521.5	ug/L	5.55	1.06%
QC value within limits for Ag 338.289 Recovery = 104.30%								
Al 308.215	45926.4	25060	ug/L	121.2	25060	ug/L	121.2	0.48%
QC value within limits for Al 308.215 Recovery = 100.23%								
As 188.979	5398.0	1002	ug/L	10.8	1002	ug/L	10.8	1.07%
QC value within limits for As 188.979 Recovery = 100.18%								
B	4256.2	1086	ug/L	4.8	1086	ug/L	4.8	0.44%
QC value within limits for B Recovery = 108.61%								
Ba 233.527	175577.5	1025	ug/L	8.1	1025	ug/L	8.1	0.79%
QC value within limits for Ba 233.527 Recovery = 102.47%								
Be 313.107	6845198.3	1057	ug/L	12.6	1057	ug/L	12.6	1.19%
QC value within limits for Be 313.107 Recovery = 105.72%								
Ca 315.887	343519.7	25990	ug/L	417.3	25990	ug/L	417.3	1.61%
QC value within limits for Ca 315.887 Recovery = 103.94%								
Cd 214.440	403059.9	1063	ug/L	7.6	1063	ug/L	7.6	0.71%
QC value within limits for Cd 214.440 Recovery = 106.28%								
Co 228.616	75372.3	1061	ug/L	8.1	1061	ug/L	8.1	0.77%
QC value within limits for Co 228.616 Recovery = 106.13%								
Cr 267.716	154704.8	1055	ug/L	7.5	1055	ug/L	7.5	0.71%
QC value within limits for Cr 267.716 Recovery = 105.53%								
Cu 327.393	103211.4	1013	ug/L	9.0	1013	ug/L	9.0	0.88%
QC value within limits for Cu 327.393 Recovery = 101.29%								
Fe 273.955	714672.0	25990	ug/L	192.2	25990	ug/L	192.2	0.74%
QC value within limits for Fe 273.955 Recovery = 103.96%								
K 766.490	59271.3	25010	ug/L	216.6	25010	ug/L	216.6	0.87%
QC value within limits for K 766.490 Recovery = 100.06%								
Mg 285.213	540582.1	26190	ug/L	390.7	26190	ug/L	390.7	1.49%
QC value within limits for Mg 285.213 Recovery = 104.74%								
Mn 257.610	59403.3	1048	ug/L	7.1	1048	ug/L	7.1	0.68%
QC value within limits for Mn 257.610 Recovery = 104.84%								
Mo 202.031	47439.2	1045	ug/L	4.5	1045	ug/L	4.5	0.43%
QC value within limits for Mo 202.031 Recovery = 104.54%								
Na 589.592	346094.0	25550	ug/L	400.3	25550	ug/L	400.3	1.57%
QC value within limits for Na 589.592 Recovery = 102.21%								
Ni 231.604	71998.6	1082	ug/L	6.0	1082	ug/L	6.0	0.55%
QC value within limits for Ni 231.604 Recovery = 108.17%								
P 213.617	36644.7	5001	ug/L	8.2	5001	ug/L	8.2	0.16%
QC value within limits for P 213.617 Recovery = 100.01%								
Pb 220.353	16583.0	1067	ug/L	8.8	1067	ug/L	8.8	0.83%
QC value within limits for Pb 220.353 Recovery = 106.73%								
Sb 206.836	6764.6	1008	ug/L	4.4	1008	ug/L	4.4	0.44%
QC value within limits for Sb 206.836 Recovery = 100.82%								
Se 196.026	5177.2	1022	ug/L	11.1	1022	ug/L	11.1	1.09%
QC value within limits for Se 196.026 Recovery = 102.21%								
Sn 189.927	4225.7	530.0	ug/L	9.37	530.0	ug/L	9.37	1.77%
QC value within limits for Sn 189.927 Recovery = 106.00%								
Sr 421.552	1061344.7	1015	ug/L	17.4	1015	ug/L	17.4	1.72%
QC value within limits for Sr 421.552 Recovery = 101.51%								
Ti 337.279	46254.5	980.4	ug/L	5.28	980.4	ug/L	5.28	0.54%
QC value within limits for Ti 337.279 Recovery = 98.04%								
Tl 190.801	7099.8	1040	ug/L	2.3	1040	ug/L	2.3	0.22%
QC value within limits for Tl 190.801 Recovery = 104.03%								
V 292.402	252783.9	1058	ug/L	6.9	1058	ug/L	6.9	0.66%
QC value within limits for V 292.402 Recovery = 105.83%								
Zn 206.200	102304.4	1092	ug/L	7.3	1092	ug/L	7.3	0.67%
QC value within limits for Zn 206.200 Recovery = 109.22%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICB 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/27/12 4:06:46 PM
Data Type: Reprocessed on 11/28/12 2:44:41 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	56.8	0.448	ug/L	1.1195	0.448	ug/L	1.1195	249.68%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-16.2	-8.886	ug/L	13.8414	-8.886	ug/L	13.8414	155.76%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	6.4	1.196	ug/L	0.0469	1.196	ug/L	0.0469	3.92%
QC value within limits for As 188.979 Recovery = Not calculated								
B	82.9	19.57	ug/L	0.897	19.57	ug/L	0.897	4.58%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	12.9	0.075	ug/L	0.0221	0.075	ug/L	0.0221	29.49%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	231.9	0.036	ug/L	0.0178	0.036	ug/L	0.0178	49.62%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	35.9	2.712	ug/L	1.3114	2.712	ug/L	1.3114	48.35%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	14.8	0.039	ug/L	0.0601	0.039	ug/L	0.0601	152.63%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	1.6	0.024	ug/L	0.2832	0.024	ug/L	0.2832	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	15.2	0.102	ug/L	0.1698	0.102	ug/L	0.1698	166.12%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	25.4	0.249	ug/L	0.2350	0.249	ug/L	0.2350	94.46%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	20.9	0.794	ug/L	0.8348	0.794	ug/L	0.8348	105.10%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	141.3	59.69	ug/L	4.023	59.69	ug/L	4.023	6.74%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	2.8	0.133	ug/L	0.2597	0.133	ug/L	0.2597	194.73%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	14.9	0.263	ug/L	0.2141	0.263	ug/L	0.2141	81.47%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	30.6	0.673	ug/L	0.2258	0.673	ug/L	0.2258	33.54%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	902.2	66.64	ug/L	12.366	66.64	ug/L	12.366	18.56%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	4.8	0.072	ug/L	0.0833	0.072	ug/L	0.0833	115.73%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-3.9	-0.534	ug/L	1.4602	-0.534	ug/L	1.4602	273.63%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	2.5	0.163	ug/L	0.4292	0.163	ug/L	0.4292	263.68%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-0.1	-0.021	ug/L	0.3100	-0.021	ug/L	0.3100	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	0.0	0.001	ug/L	0.9382	0.001	ug/L	0.9382	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	10.8	1.360	ug/L	0.5239	1.360	ug/L	0.5239	38.52%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-11.9	-0.011	ug/L	0.1272	-0.011	ug/L	0.1272	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-4.0	-0.085	ug/L	0.5972	-0.085	ug/L	0.5972	703.45%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	7.3	1.068	ug/L	0.4565	1.068	ug/L	0.4565	42.73%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-107.2	-0.431	ug/L	0.1750	-0.431	ug/L	0.1750	40.59%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	5.0	0.055	ug/L	0.1368	0.055	ug/L	0.1368	248.85%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 11/27/12 4:14:13 PM
Data Type: Reprocessed on 11/28/12 2:44:43 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-43.5	-0.344	ug/L	0.1760	-0.344	ug/L	0.1760	51.21%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	355704.9	194000	ug/L	609.8	194000	ug/L	609.8	0.31%
QC value within limits for Al 308.215 Recovery = 97.00%								
As 188.979	-4.6	-0.858	ug/L	0.5108	-0.858	ug/L	0.5108	59.54%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2262.6	38.35	ug/L	5.729	38.35	ug/L	5.729	14.94%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	17749.0	0.148	ug/L	0.2176	0.148	ug/L	0.2176	146.68%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-525.2	-0.081	ug/L	0.0089	-0.081	ug/L	0.0089	11.02%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2616819.9	198000	ug/L	496.2	198000	ug/L	496.2	0.25%
QC value within limits for Ca 315.887 Recovery = 99.00%								
Cd 214.440	3535.2	0.031	ug/L	0.1131	0.031	ug/L	0.1131	366.65%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	334.2	-0.798	ug/L	0.2618	-0.798	ug/L	0.2618	32.79%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-88.9	-0.061	ug/L	0.2256	-0.061	ug/L	0.2256	372.32%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-62.2	-0.611	ug/L	0.0108	-0.611	ug/L	0.0108	1.77%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4961781.2	181000	ug/L	1525.2	181000	ug/L	1525.2	0.84%
QC value within limits for Fe 273.955 Recovery = 90.51%								
K 766.490	11.1	-111.3	ug/L	39.02	-111.3	ug/L	39.02	35.05%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3960883.4	191900	ug/L	636.0	191900	ug/L	636.0	0.33%
QC value within limits for Mg 285.213 Recovery = 95.93%								
Mn 257.610	-54.2	-0.037	ug/L	0.4600	-0.037	ug/L	0.4600	>999.9%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-636.0	-0.277	ug/L	0.3174	-0.277	ug/L	0.3174	114.54%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	609.4	-0.555	ug/L	8.9183	-0.555	ug/L	8.9183	>999.9%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	73.0	-0.573	ug/L	0.3576	-0.573	ug/L	0.3576	62.40%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-21.3	-2.904	ug/L	1.4836	-2.904	ug/L	1.4836	51.09%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-10.2	-0.657	ug/L	0.8370	-0.657	ug/L	0.8370	127.48%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-5.1	-0.767	ug/L	1.7189	-0.767	ug/L	1.7189	224.18%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-23.0	-4.534	ug/L	0.9451	-4.534	ug/L	0.9451	20.85%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-19.7	-2.467	ug/L	0.7695	-2.467	ug/L	0.7695	31.19%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2246.8	-0.055	ug/L	0.0379	-0.055	ug/L	0.0379	68.48%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	160.6	-0.031	ug/L	0.8236	-0.031	ug/L	0.8236	>999.9%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-6.8	-0.996	ug/L	1.5443	-0.996	ug/L	1.5443	155.09%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	10555.3	-0.049	ug/L	0.2958	-0.049	ug/L	0.2958	599.21%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	914.0	0.544	ug/L	0.1188	0.544	ug/L	0.1188	21.84%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 11/27/12 4:18:09 PM
Data Type: Reprocessed on 11/28/12 2:44:45 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	128584.9	1015	ug/L	13.9	1015	ug/L	13.9	1.37%
QC value within limits for Ag 338.289 Recovery = 101.52%								
Al 308.215	351079.7	191500	ug/L	1692.8	191500	ug/L	1692.8	0.88%
QC value within limits for Al 308.215 Recovery = 95.74%								
As 188.979	2402.9	445.9	ug/L	2.45	445.9	ug/L	2.45	0.55%
QC value within limits for As 188.979 Recovery = 89.18%								
B	-2225.8	51.29	ug/L	3.063	51.29	ug/L	3.063	5.97%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	98857.8	479.7	ug/L	1.90	479.7	ug/L	1.90	0.40%
QC value within limits for Ba 233.527 Recovery = 95.94%								
Be 313.107	3113016.0	480.8	ug/L	5.97	480.8	ug/L	5.97	1.24%
QC value within limits for Be 313.107 Recovery = 96.16%								
Ca 315.887	2625411.9	198600	ug/L	2016.5	198600	ug/L	2016.5	1.02%
QC value within limits for Ca 315.887 Recovery = 99.32%								
Cd 214.440	355490.3	928.7	ug/L	2.33	928.7	ug/L	2.33	0.25%
QC value within limits for Cd 214.440 Recovery = 92.87%								
Co 228.616	33607.0	469.0	ug/L	2.14	469.0	ug/L	2.14	0.46%
QC value within limits for Co 228.616 Recovery = 93.80%								
Cr 267.716	69777.6	476.5	ug/L	0.68	476.5	ug/L	0.68	0.14%
QC value within limits for Cr 267.716 Recovery = 95.30%								
Cu 327.393	50881.1	499.3	ug/L	4.83	499.3	ug/L	4.83	0.97%
QC value within limits for Cu 327.393 Recovery = 99.87%								
Fe 273.955	5001330.5	182400	ug/L	2176.1	182400	ug/L	2176.1	1.19%
QC value within limits for Fe 273.955 Recovery = 91.21%								
K 766.490	200.4	-33.97	ug/L	29.914	-33.97	ug/L	29.914	88.07%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	4171487.5	202000	ug/L	1886.9	202000	ug/L	1886.9	0.93%
QC value within limits for Mg 285.213 Recovery = 101.02%								
Mn 257.610	26354.0	465.6	ug/L	4.56	465.6	ug/L	4.56	0.98%
QC value within limits for Mn 257.610 Recovery = 93.12%								
Mo 202.031	20966.5	475.1	ug/L	0.95	475.1	ug/L	0.95	0.20%
QC value within limits for Mo 202.031 Recovery = 95.01%								
Na 589.592	390.0	-19.33	ug/L	4.674	-19.33	ug/L	4.674	24.18%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	62333.8	935.9	ug/L	3.68	935.9	ug/L	3.68	0.39%
QC value within limits for Ni 231.604 Recovery = 93.59%								
P 213.617	12.0	1.638	ug/L	1.6190	1.638	ug/L	1.6190	98.87%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	14865.1	956.7	ug/L	3.68	956.7	ug/L	3.68	0.38%
QC value within limits for Pb 220.353 Recovery = 95.67%								
Sb 206.836	3090.1	460.6	ug/L	1.05	460.6	ug/L	1.05	0.23%
QC value within limits for Sb 206.836 Recovery = 92.11%								
Se 196.026	2381.8	470.2	ug/L	0.24	470.2	ug/L	0.24	0.05%
QC value within limits for Se 196.026 Recovery = 94.04%								
Sn 189.927	-13.8	-1.735	ug/L	1.7555	-1.735	ug/L	1.7555	101.17%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2295.5	0.001	ug/L	0.1050	0.001	ug/L	0.1050	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	170.0	0.074	ug/L	0.9248	0.074	ug/L	0.9248	>999.9%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3267.4	478.8	ug/L	1.32	478.8	ug/L	1.32	0.28%
QC value within limits for Tl 190.801 Recovery = 95.75%								
V 292.402	128320.7	495.7	ug/L	0.32	495.7	ug/L	0.32	0.06%
QC value within limits for V 292.402 Recovery = 99.13%								
Zn 206.200	89108.6	938.3	ug/L	6.04	938.3	ug/L	6.04	0.64%
QC value within limits for Zn 206.200 Recovery = 93.83%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/27/12 4:22:06 PM
Data Type: Reprocessed on 11/28/12 2:44:46 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	63556.7	501.8	ug/L	5.06	501.8	ug/L	5.06	1.01%
QC value within limits for Ag 338.289 Recovery = 100.35%								
Al 308.215	36662.2	20000	ug/L	141.2	20000	ug/L	141.2	0.71%
QC value within limits for Al 308.215 Recovery = 100.02%								
As 188.979	5466.8	1015	ug/L	9.7	1015	ug/L	9.7	0.96%
QC value within limits for As 188.979 Recovery = 101.45%								
B	4196.3	1053	ug/L	9.2	1053	ug/L	9.2	0.87%
QC value within limits for B Recovery = 105.28%								
Ba 233.527	172336.3	1009	ug/L	5.4	1009	ug/L	5.4	0.53%
QC value within limits for Ba 233.527 Recovery = 100.87%								
Be 313.107	6724670.2	1039	ug/L	6.2	1039	ug/L	6.2	0.60%
QC value within limits for Be 313.107 Recovery = 103.86%								
Ca 315.887	668291.8	50560	ug/L	583.8	50560	ug/L	583.8	1.15%
QC value within limits for Ca 315.887 Recovery = 101.13%								
Cd 214.440	392116.6	1034	ug/L	6.1	1034	ug/L	6.1	0.59%
QC value within limits for Cd 214.440 Recovery = 103.42%								
Co 228.616	72584.2	1022	ug/L	5.7	1022	ug/L	5.7	0.56%
QC value within limits for Co 228.616 Recovery = 102.20%								
Cr 267.716	150088.9	1024	ug/L	5.2	1024	ug/L	5.2	0.50%
QC value within limits for Cr 267.716 Recovery = 102.35%								
Cu 327.393	101994.5	1001	ug/L	5.0	1001	ug/L	5.0	0.50%
QC value within limits for Cu 327.393 Recovery = 100.09%								
Fe 273.955	561150.4	20390	ug/L	117.3	20390	ug/L	117.3	0.58%
QC value within limits for Fe 273.955 Recovery = 101.95%								
K 766.490	46689.6	19700	ug/L	95.8	19700	ug/L	95.8	0.49%
QC value within limits for K 766.490 Recovery = 98.48%								
Mg 285.213	1054456.7	51040	ug/L	510.7	51040	ug/L	510.7	1.00%
QC value within limits for Mg 285.213 Recovery = 102.08%								
Mn 257.610	57404.4	1012	ug/L	7.0	1012	ug/L	7.0	0.69%
QC value within limits for Mn 257.610 Recovery = 101.17%								
Mo 202.031	47237.6	1040	ug/L	10.4	1040	ug/L	10.4	1.00%
QC value within limits for Mo 202.031 Recovery = 104.04%								
Na 589.592	340299.4	25120	ug/L	239.7	25120	ug/L	239.7	0.95%
QC value within limits for Na 589.592 Recovery = 100.49%								
Ni 231.604	69432.6	1043	ug/L	10.8	1043	ug/L	10.8	1.03%
QC value within limits for Ni 231.604 Recovery = 104.31%								
P 213.617	38029.2	5189	ug/L	60.0	5189	ug/L	60.0	1.16%
QC value within limits for P 213.617 Recovery = 103.79%								
Pb 220.353	15962.9	1027	ug/L	17.7	1027	ug/L	17.7	1.72%
QC value within limits for Pb 220.353 Recovery = 102.74%								
Sb 206.836	6723.3	1002	ug/L	16.9	1002	ug/L	16.9	1.68%
QC value within limits for Sb 206.836 Recovery = 100.21%								
Se 196.026	5188.8	1024	ug/L	9.2	1024	ug/L	9.2	0.89%
QC value within limits for Se 196.026 Recovery = 102.44%								
Sn 189.927	8149.9	1022	ug/L	5.5	1022	ug/L	5.5	0.53%
QC value within limits for Sn 189.927 Recovery = 102.22%								
Sr 421.552	1049864.9	1004	ug/L	9.8	1004	ug/L	9.8	0.98%
QC value within limits for Sr 421.552 Recovery = 100.40%								
Ti 337.279	47047.4	996.9	ug/L	8.02	996.9	ug/L	8.02	0.80%
QC value within limits for Ti 337.279 Recovery = 99.69%								
Tl 190.801	6846.2	1003	ug/L	17.1	1003	ug/L	17.1	1.70%
QC value within limits for Tl 190.801 Recovery = 100.32%								
V 292.402	246641.6	1034	ug/L	5.5	1034	ug/L	5.5	0.53%
QC value within limits for V 292.402 Recovery = 103.40%								
Zn 206.200	98316.7	1050	ug/L	8.5	1050	ug/L	8.5	0.81%
QC value within limits for Zn 206.200 Recovery = 105.01%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/27/12 4:28:24 PM
Data Type: Reprocessed on 11/28/12 2:44:47 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-11.7	-0.092	ug/L	0.3717	-0.092	ug/L	0.3717	402.41%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-7.8	-4.296	ug/L	1.3835	-4.296	ug/L	1.3835	32.20%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	6.0	1.113	ug/L	0.2775	1.113	ug/L	0.2775	24.93%
QC value within limits for As 188.979 Recovery = Not calculated								
B	26.7	6.307	ug/L	0.7823	6.307	ug/L	0.7823	12.40%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	20.9	0.122	ug/L	0.0660	0.122	ug/L	0.0660	54.26%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-79.1	-0.012	ug/L	0.0088	-0.012	ug/L	0.0088	71.98%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	34.5	2.606	ug/L	2.6988	2.606	ug/L	2.6988	103.57%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	11.3	0.030	ug/L	0.0222	0.030	ug/L	0.0222	74.77%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	25.9	0.366	ug/L	0.2061	0.366	ug/L	0.2061	56.32%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-4.6	-0.032	ug/L	0.0212	-0.032	ug/L	0.0212	65.76%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	9.6	0.094	ug/L	0.1248	0.094	ug/L	0.1248	132.31%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	75.0	2.782	ug/L	0.4063	2.782	ug/L	0.4063	14.61%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	53.9	22.75	ug/L	82.643	22.75	ug/L	82.643	363.23%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	34.6	1.679	ug/L	0.5047	1.679	ug/L	0.5047	30.07%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	10.3	0.181	ug/L	0.1788	0.181	ug/L	0.1788	98.55%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	6.0	0.132	ug/L	0.1898	0.132	ug/L	0.1898	143.87%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	149.2	11.02	ug/L	6.917	11.02	ug/L	6.917	62.78%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	1.0	0.014	ug/L	0.2227	0.014	ug/L	0.2227	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-0.7	-0.096	ug/L	0.3519	-0.096	ug/L	0.3519	367.94%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	0.1	0.005	ug/L	0.1760	0.005	ug/L	0.1760	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-2.6	-0.385	ug/L	0.5089	-0.385	ug/L	0.5089	132.06%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-13.9	-2.734	ug/L	0.4959	-2.734	ug/L	0.4959	18.14%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	1.0	0.125	ug/L	0.9746	0.125	ug/L	0.9746	778.67%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	62.8	0.060	ug/L	0.0433	0.060	ug/L	0.0433	71.99%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-4.6	-0.098	ug/L	0.2071	-0.098	ug/L	0.2071	210.57%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3.1	0.460	ug/L	0.3630	0.460	ug/L	0.3630	78.99%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-139.3	-0.572	ug/L	0.3837	-0.572	ug/L	0.3837	67.02%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-15.7	-0.166	ug/L	0.1042	-0.166	ug/L	0.1042	62.76%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 30
Sample ID: CCV1 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/27/12 6:14:22 PM
Data Type: Reprocessed on 11/28/12 2:45:06 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	63645.6	502.5	ug/L	5.32	502.5	ug/L	5.32	1.06%
QC value within limits for Ag 338.289 Recovery = 100.49%								
Al 308.215	36827.1	20090	ug/L	38.1	20090	ug/L	38.1	0.19%
QC value within limits for Al 308.215 Recovery = 100.47%								
As 188.979	5524.7	1025	ug/L	8.8	1025	ug/L	8.8	0.86%
QC value within limits for As 188.979 Recovery = 102.53%								
B	4205.8	1055	ug/L	14.3	1055	ug/L	14.3	1.35%
QC value within limits for B Recovery = 105.51%								
Ba 233.527	172366.5	1009	ug/L	8.9	1009	ug/L	8.9	0.88%
QC value within limits for Ba 233.527 Recovery = 100.89%								
Be 313.107	6692151.4	1034	ug/L	9.0	1034	ug/L	9.0	0.87%
QC value within limits for Be 313.107 Recovery = 103.36%								
Ca 315.887	670056.4	50700	ug/L	272.8	50700	ug/L	272.8	0.54%
QC value within limits for Ca 315.887 Recovery = 101.39%								
Cd 214.440	393813.1	1039	ug/L	9.2	1039	ug/L	9.2	0.89%
QC value within limits for Cd 214.440 Recovery = 103.86%								
Co 228.616	72731.6	1024	ug/L	8.3	1024	ug/L	8.3	0.81%
QC value within limits for Co 228.616 Recovery = 102.41%								
Cr 267.716	150474.6	1026	ug/L	9.6	1026	ug/L	9.6	0.93%
QC value within limits for Cr 267.716 Recovery = 102.62%								
Cu 327.393	101861.2	999.6	ug/L	8.19	999.6	ug/L	8.19	0.82%
QC value within limits for Cu 327.393 Recovery = 99.96%								
Fe 273.955	561668.3	20410	ug/L	169.1	20410	ug/L	169.1	0.83%
QC value within limits for Fe 273.955 Recovery = 102.04%								
K 766.490	46870.6	19770	ug/L	14.0	19770	ug/L	14.0	0.07%
QC value within limits for K 766.490 Recovery = 98.86%								
Mg 285.213	1057796.2	51200	ug/L	210.8	51200	ug/L	210.8	0.41%
QC value within limits for Mg 285.213 Recovery = 102.41%								
Mn 257.610	57830.9	1019	ug/L	3.9	1019	ug/L	3.9	0.38%
QC value within limits for Mn 257.610 Recovery = 101.92%								
Mo 202.031	47231.2	1040	ug/L	5.2	1040	ug/L	5.2	0.50%
QC value within limits for Mo 202.031 Recovery = 104.03%								
Na 589.592	339990.3	25100	ug/L	124.1	25100	ug/L	124.1	0.49%
QC value within limits for Na 589.592 Recovery = 100.40%								
Ni 231.604	68740.1	1033	ug/L	6.2	1033	ug/L	6.2	0.60%
QC value within limits for Ni 231.604 Recovery = 103.26%								
P 213.617	38092.6	5198	ug/L	68.8	5198	ug/L	68.8	1.32%
QC value within limits for P 213.617 Recovery = 103.96%								
Pb 220.353	16166.4	1040	ug/L	8.5	1040	ug/L	8.5	0.81%
QC value within limits for Pb 220.353 Recovery = 104.05%								
Sb 206.836	6686.4	996.6	ug/L	6.08	996.6	ug/L	6.08	0.61%
QC value within limits for Sb 206.836 Recovery = 99.66%								
Se 196.026	5184.9	1024	ug/L	13.1	1024	ug/L	13.1	1.28%
QC value within limits for Se 196.026 Recovery = 102.36%								
Sn 189.927	8398.9	1053	ug/L	8.5	1053	ug/L	8.5	0.81%
QC value within limits for Sn 189.927 Recovery = 105.34%								
Sr 421.552	1044527.1	998.9	ug/L	5.28	998.9	ug/L	5.28	0.53%
QC value within limits for Sr 421.552 Recovery = 99.89%								
Ti 337.279	47057.7	997.1	ug/L	1.17	997.1	ug/L	1.17	0.12%
QC value within limits for Ti 337.279 Recovery = 99.71%								
Tl 190.801	6899.2	1011	ug/L	11.0	1011	ug/L	11.0	1.09%
QC value within limits for Tl 190.801 Recovery = 101.09%								
V 292.402	247176.2	1036	ug/L	8.2	1036	ug/L	8.2	0.80%
QC value within limits for V 292.402 Recovery = 103.62%								
Zn 206.200	98866.7	1056	ug/L	6.7	1056	ug/L	6.7	0.63%
QC value within limits for Zn 206.200 Recovery = 105.59%								

All analyte(s) passed QC.

Sequence No.: 31 Autosampler Location: 1
Sample ID: CCB 121127EA I:PB O:EA Date Collected: 11/27/12 6:17:31 PM
Analyst: Data Type: Reprocessed on 11/28/12 2:45:07 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Ag 338.289	29.1	0.230	ug/L	0.7664	0.230	ug/L	0.7664	333.03%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-9.7	-5.319	ug/L	7.1077	-5.319	ug/L	7.1077	133.62%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.4	0.819	ug/L	0.4318	0.819	ug/L	0.4318	52.72%
QC value within limits for As 188.979 Recovery = Not calculated								
B	60.4	14.26	ug/L	2.885	14.26	ug/L	2.885	20.23%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	43.2	0.254	ug/L	0.0380	0.254	ug/L	0.0380	14.97%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-381.6	-0.059	ug/L	0.0087	-0.059	ug/L	0.0087	14.80%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	143.9	10.88	ug/L	1.172	10.88	ug/L	1.172	10.77%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	26.1	0.069	ug/L	0.0433	0.069	ug/L	0.0433	62.87%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	10.9	0.154	ug/L	0.1093	0.154	ug/L	0.1093	70.73%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	0.8	0.004	ug/L	0.0270	0.004	ug/L	0.0270	648.87%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-41.5	-0.407	ug/L	0.1549	-0.407	ug/L	0.1549	38.05%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	22.6	0.878	ug/L	0.8322	0.878	ug/L	0.8322	94.74%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	111.0	46.89	ug/L	31.306	46.89	ug/L	31.306	66.76%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	20.0	0.968	ug/L	0.5916	0.968	ug/L	0.5916	61.12%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	9.8	0.173	ug/L	0.1603	0.173	ug/L	0.1603	92.60%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	18.8	0.413	ug/L	0.0636	0.413	ug/L	0.0636	15.38%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	404.3	29.85	ug/L	5.715	29.85	ug/L	5.715	19.15%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-16.5	-0.249	ug/L	0.2932	-0.249	ug/L	0.2932	117.86%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-14.3	-1.951	ug/L	0.3819	-1.951	ug/L	0.3819	19.57%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	17.6	1.135	ug/L	0.1756	1.135	ug/L	0.1756	15.47%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-1.6	-0.239	ug/L	0.6577	-0.239	ug/L	0.6577	274.75%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-5.8	-1.135	ug/L	1.5652	-1.135	ug/L	1.5652	137.86%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	7.4	0.925	ug/L	0.7828	0.925	ug/L	0.7828	84.61%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-28.3	-0.027	ug/L	0.0597	-0.027	ug/L	0.0597	220.43%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	3.9	0.081	ug/L	0.3487	0.081	ug/L	0.3487	427.84%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	4.6	0.675	ug/L	0.3007	0.675	ug/L	0.3007	44.54%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-170.3	-0.695	ug/L	0.2337	-0.695	ug/L	0.2337	33.61%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-12.6	-0.132	ug/L	0.0614	-0.132	ug/L	0.0614	46.34%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 42
Sample ID: CCV2 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 11/27/12 7:16:39 PM
Data Type: Reprocessed on 11/28/12 2:45:18 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	49138.8	387.9	ug/L	2.81	387.9	ug/L	2.81	0.72%
QC value within limits for Ag 338.289 Recovery = 103.45%								
Al 308.215	29237.3	15950	ug/L	143.2	15950	ug/L	143.2	0.90%
QC value within limits for Al 308.215 Recovery = 106.35%								
As 188.979	4309.8	799.8	ug/L	1.95	799.8	ug/L	1.95	0.24%
QC value within limits for As 188.979 Recovery = 106.64%								
B	3321.8	831.6	ug/L	18.32	831.6	ug/L	18.32	2.20%
QC value greater than the upper limit for B Recovery = 110.87%								
Ba 233.527	132721.7	776.9	ug/L	3.55	776.9	ug/L	3.55	0.46%
QC value within limits for Ba 233.527 Recovery = 103.59%								
Be 313.107	5224951.2	807.0	ug/L	2.98	807.0	ug/L	2.98	0.37%
QC value within limits for Be 313.107 Recovery = 107.59%								
Ca 315.887	533785.1	40390	ug/L	284.9	40390	ug/L	284.9	0.71%
QC value within limits for Ca 315.887 Recovery = 107.70%								
Cd 214.440	302577.4	798.0	ug/L	1.93	798.0	ug/L	1.93	0.24%
QC value within limits for Cd 214.440 Recovery = 106.40%								
Co 228.616	56297.5	792.6	ug/L	3.61	792.6	ug/L	3.61	0.46%
QC value within limits for Co 228.616 Recovery = 105.68%								
Cr 267.716	115925.7	790.5	ug/L	1.01	790.5	ug/L	1.01	0.13%
QC value within limits for Cr 267.716 Recovery = 105.40%								
Cu 327.393	78705.8	772.4	ug/L	3.58	772.4	ug/L	3.58	0.46%
QC value within limits for Cu 327.393 Recovery = 102.99%								
Fe 273.955	429044.9	15590	ug/L	51.8	15590	ug/L	51.8	0.33%
QC value within limits for Fe 273.955 Recovery = 103.93%								
K 766.490	36654.2	15460	ug/L	135.6	15460	ug/L	135.6	0.88%
QC value within limits for K 766.490 Recovery = 103.09%								
Mg 285.213	847722.2	41030	ug/L	264.2	41030	ug/L	264.2	0.64%
QC value within limits for Mg 285.213 Recovery = 109.42%								
Mn 257.610	46276.4	815.5	ug/L	8.91	815.5	ug/L	8.91	1.09%
QC value within limits for Mn 257.610 Recovery = 108.74%								
Mo 202.031	35761.1	787.7	ug/L	4.17	787.7	ug/L	4.17	0.53%
QC value within limits for Mo 202.031 Recovery = 105.02%								
Na 589.592	270048.0	19940	ug/L	95.5	19940	ug/L	95.5	0.48%
QC value within limits for Na 589.592 Recovery = 106.33%								
Ni 231.604	52972.0	795.7	ug/L	2.41	795.7	ug/L	2.41	0.30%
QC value within limits for Ni 231.604 Recovery = 106.10%								
P 213.617	29131.8	3975	ug/L	39.0	3975	ug/L	39.0	0.98%
QC value within limits for P 213.617 Recovery = 106.01%								
Pb 220.353	12607.1	811.4	ug/L	1.23	811.4	ug/L	1.23	0.15%
QC value within limits for Pb 220.353 Recovery = 108.18%								
Sb 206.836	5274.0	786.1	ug/L	0.83	786.1	ug/L	0.83	0.11%
QC value within limits for Sb 206.836 Recovery = 104.81%								
Se 196.026	4073.7	804.2	ug/L	2.22	804.2	ug/L	2.22	0.28%
QC value within limits for Se 196.026 Recovery = 107.23%								
Sn 189.927	6581.4	825.5	ug/L	2.52	825.5	ug/L	2.52	0.30%
QC value within limits for Sn 189.927 Recovery = 110.06%								
Sr 421.552	827660.1	791.5	ug/L	4.09	791.5	ug/L	4.09	0.52%
QC value within limits for Sr 421.552 Recovery = 105.53%								
Ti 337.279	37129.4	786.7	ug/L	12.74	786.7	ug/L	12.74	1.62%
QC value within limits for Ti 337.279 Recovery = 104.89%								
Tl 190.801	5388.1	789.5	ug/L	1.99	789.5	ug/L	1.99	0.25%
QC value within limits for Tl 190.801 Recovery = 105.27%								
V 292.402	190276.4	797.5	ug/L	2.08	797.5	ug/L	2.08	0.26%
QC value within limits for V 292.402 Recovery = 106.33%								
Zn 206.200	75901.9	810.7	ug/L	4.44	810.7	ug/L	4.44	0.55%
QC value within limits for Zn 206.200 Recovery = 108.10%								

QC Failed. Continue with analysis.

Sequence No.: 43 Autosampler Location: 2
Sample ID: CCB 121127EA I:PB O:EA Date Collected: 11/27/12 7:23:26 PM
Analyst: Data Type: Reprocessed on 11/28/12 2:45:19 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	20.5	0.162	ug/L	0.6911	0.162	ug/L	0.6911	427.01%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-4.6	-2.511	ug/L	5.9886	-2.511	ug/L	5.9886	238.52%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.2	0.783	ug/L	0.8627	0.783	ug/L	0.8627	110.20%
QC value within limits for As 188.979 Recovery = Not calculated								
B	15.3	3.600	ug/L	0.1746	3.600	ug/L	0.1746	4.85%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	19.6	0.115	ug/L	0.1001	0.115	ug/L	0.1001	87.17%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-208.6	-0.032	ug/L	0.0093	-0.032	ug/L	0.0093	28.97%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	1281.2	96.95	ug/L	22.925	96.95	ug/L	22.925	23.65%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	30.6	0.080	ug/L	0.0188	0.080	ug/L	0.0188	23.41%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	1.6	0.023	ug/L	0.3212	0.023	ug/L	0.3212	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-21.3	-0.146	ug/L	0.1017	-0.146	ug/L	0.1017	69.51%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-18.2	-0.179	ug/L	0.1156	-0.179	ug/L	0.1156	64.64%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	8.6	0.352	ug/L	0.7401	0.352	ug/L	0.7401	210.52%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	187.7	79.23	ug/L	54.350	79.23	ug/L	54.350	68.60%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	96.7	4.672	ug/L	4.9566	4.672	ug/L	4.9566	106.08%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-2.2	-0.039	ug/L	0.1842	-0.039	ug/L	0.1842	469.99%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-7.4	-0.162	ug/L	0.0891	-0.162	ug/L	0.0891	54.84%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	1496.2	110.5	ug/L	11.77	110.5	ug/L	11.77	10.65%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-22.4	-0.338	ug/L	0.3973	-0.338	ug/L	0.3973	117.44%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	592.4	80.83	ug/L	42.520	80.83	ug/L	42.520	52.60%
QC value greater than the upper limit for P 213.617 Recovery = Not calculated								
Pb 220.353	0.7	0.045	ug/L	0.3274	0.045	ug/L	0.3274	731.74%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-3.7	-0.554	ug/L	0.9878	-0.554	ug/L	0.9878	178.38%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-6.5	-1.274	ug/L	2.2591	-1.274	ug/L	2.2591	177.35%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-6.7	-0.838	ug/L	0.8944	-0.838	ug/L	0.8944	106.69%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-112.4	-0.108	ug/L	0.0428	-0.108	ug/L	0.0428	39.59%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-23.3	-0.494	ug/L	0.5217	-0.494	ug/L	0.5217	105.64%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	9.3	1.369	ug/L	0.9864	1.369	ug/L	0.9864	72.05%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-136.5	-0.565	ug/L	0.3592	-0.565	ug/L	0.3592	63.52%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-12.1	-0.127	ug/L	0.0467	-0.127	ug/L	0.0467	36.72%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 50
Sample ID: CCV1 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/27/12 7:57:27 PM
Data Type: Reprocessed on 11/28/12 2:45:26 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	64827.2	511.8	ug/L	4.19	511.8	ug/L	4.19	0.82%
QC value within limits for Ag 338.289 Recovery = 102.36%								
Al 308.215	39033.1	21300	ug/L	295.1	21300	ug/L	295.1	1.39%
QC value within limits for Al 308.215 Recovery = 106.48%								
As 188.979	5646.1	1048	ug/L	17.7	1048	ug/L	17.7	1.69%
QC value within limits for As 188.979 Recovery = 104.78%								
B	4417.6	1105	ug/L	17.5	1105	ug/L	17.5	1.58%
QC value greater than the upper limit for B Recovery = 110.52%								
Ba 233.527	174973.6	1024	ug/L	6.8	1024	ug/L	6.8	0.66%
QC value within limits for Ba 233.527 Recovery = 102.43%								
Be 313.107	6863766.8	1060	ug/L	7.4	1060	ug/L	7.4	0.69%
QC value within limits for Be 313.107 Recovery = 106.01%								
Ca 315.887	708326.8	53590	ug/L	414.8	53590	ug/L	414.8	0.77%
QC value within limits for Ca 315.887 Recovery = 107.19%								
Cd 214.440	396258.1	1045	ug/L	6.6	1045	ug/L	6.6	0.64%
QC value within limits for Cd 214.440 Recovery = 104.51%								
Co 228.616	73861.6	1040	ug/L	5.0	1040	ug/L	5.0	0.48%
QC value within limits for Co 228.616 Recovery = 103.99%								
Cr 267.716	152868.5	1042	ug/L	6.6	1042	ug/L	6.6	0.63%
QC value within limits for Cr 267.716 Recovery = 104.24%								
Cu 327.393	104418.8	1025	ug/L	8.5	1025	ug/L	8.5	0.83%
QC value within limits for Cu 327.393 Recovery = 102.47%								
Fe 273.955	564270.1	20500	ug/L	125.1	20500	ug/L	125.1	0.61%
QC value within limits for Fe 273.955 Recovery = 102.51%								
K 766.490	50289.8	21220	ug/L	240.5	21220	ug/L	240.5	1.13%
QC value within limits for K 766.490 Recovery = 106.08%								
Mg 285.213	1118265.3	54130	ug/L	480.9	54130	ug/L	480.9	0.89%
QC value within limits for Mg 285.213 Recovery = 108.26%								
Mn 257.610	61750.1	1088	ug/L	16.0	1088	ug/L	16.0	1.47%
QC value within limits for Mn 257.610 Recovery = 108.82%								
Mo 202.031	48510.1	1068	ug/L	22.6	1068	ug/L	22.6	2.11%
QC value within limits for Mo 202.031 Recovery = 106.84%								
Na 589.592	356899.0	26350	ug/L	225.7	26350	ug/L	225.7	0.86%
QC value within limits for Na 589.592 Recovery = 105.40%								
Ni 231.604	70889.5	1065	ug/L	20.7	1065	ug/L	20.7	1.94%
QC value within limits for Ni 231.604 Recovery = 106.49%								
P 213.617	39557.7	5398	ug/L	69.6	5398	ug/L	69.6	1.29%
QC value within limits for P 213.617 Recovery = 107.96%								
Pb 220.353	16484.6	1061	ug/L	22.6	1061	ug/L	22.6	2.13%
QC value within limits for Pb 220.353 Recovery = 106.09%								
Sb 206.836	6877.3	1025	ug/L	20.6	1025	ug/L	20.6	2.01%
QC value within limits for Sb 206.836 Recovery = 102.50%								
Se 196.026	5313.0	1049	ug/L	21.4	1049	ug/L	21.4	2.04%
QC value within limits for Se 196.026 Recovery = 104.89%								
Sn 189.927	8660.6	1086	ug/L	21.2	1086	ug/L	21.2	1.95%
QC value within limits for Sn 189.927 Recovery = 108.62%								
Sr 421.552	1099043.0	1051	ug/L	9.3	1051	ug/L	9.3	0.88%
QC value within limits for Sr 421.552 Recovery = 105.10%								
Ti 337.279	50060.9	1061	ug/L	14.8	1061	ug/L	14.8	1.39%
QC value within limits for Ti 337.279 Recovery = 106.07%								
Tl 190.801	6972.0	1022	ug/L	20.4	1022	ug/L	20.4	2.00%
QC value within limits for Tl 190.801 Recovery = 102.16%								
V 292.402	251353.9	1054	ug/L	7.3	1054	ug/L	7.3	0.69%
QC value within limits for V 292.402 Recovery = 105.39%								
Zn 206.200	99533.7	1063	ug/L	5.2	1063	ug/L	5.2	0.49%
QC value within limits for Zn 206.200 Recovery = 106.32%								

QC Failed. Continue with analysis.

Sequence No.: 51
Sample ID: CCB 121127EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/27/12 8:05:51 PM
Data Type: Reprocessed on 11/28/12 2:45:27 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121127EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	1.6	0.013	ug/L	0.9941	0.013	ug/L	0.9941	>999.9%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-20.1	-10.99	ug/L	7.178	-10.99	ug/L	7.178	65.33%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	1.7	0.318	ug/L	0.1791	0.318	ug/L	0.1791	56.39%
QC value within limits for As 188.979 Recovery = Not calculated								
B	29.0	6.857	ug/L	0.5782	6.857	ug/L	0.5782	8.43%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	44.7	0.263	ug/L	0.0497	0.263	ug/L	0.0497	18.93%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-373.8	-0.058	ug/L	0.0191	-0.058	ug/L	0.0191	33.04%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	1373.8	104.0	ug/L	21.85	104.0	ug/L	21.85	21.02%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	35.3	0.093	ug/L	0.0267	0.093	ug/L	0.0267	28.84%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	13.3	0.188	ug/L	0.0227	0.188	ug/L	0.0227	12.03%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-22.1	-0.152	ug/L	0.1670	-0.152	ug/L	0.1670	110.21%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-63.7	-0.625	ug/L	0.4806	-0.625	ug/L	0.4806	76.94%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	52.6	1.936	ug/L	0.3954	1.936	ug/L	0.3954	20.42%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	415.7	175.5	ug/L	36.41	175.5	ug/L	36.41	20.75%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	51.9	2.508	ug/L	1.2982	2.508	ug/L	1.2982	51.77%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	2.8	0.048	ug/L	0.0808	0.048	ug/L	0.0808	168.59%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	0.8	0.018	ug/L	0.2527	0.018	ug/L	0.2527	>999.9%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	898.0	66.27	ug/L	2.440	66.27	ug/L	2.440	3.68%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-18.6	-0.280	ug/L	0.0494	-0.280	ug/L	0.0494	17.63%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	376.5	51.38	ug/L	22.004	51.38	ug/L	22.004	42.83%
QC value greater than the upper limit for P 213.617 Recovery = Not calculated								
Pb 220.353	1.5	0.098	ug/L	0.3900	0.098	ug/L	0.3900	399.45%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-1.5	-0.221	ug/L	1.0429	-0.221	ug/L	1.0429	471.01%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-1.1	-0.210	ug/L	0.1709	-0.210	ug/L	0.1709	81.41%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-6.6	-0.830	ug/L	0.5993	-0.830	ug/L	0.5993	72.16%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-40.6	-0.039	ug/L	0.0461	-0.039	ug/L	0.0461	117.84%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-12.8	-0.272	ug/L	0.1289	-0.272	ug/L	0.1289	47.34%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3.9	0.566	ug/L	0.3128	0.566	ug/L	0.3128	55.25%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-75.3	-0.312	ug/L	0.4367	-0.312	ug/L	0.4367	140.07%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	16.8	0.179	ug/L	0.1992	0.179	ug/L	0.1992	111.36%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	11/27/12	11/27/12	#6010B-121127A-AY72103

Metals SC-Blank-REG MDLs
Printed: 11/29/12 9:50:20 AM

Sequence No.: 32
Sample ID: 121127A-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 89
Date Collected: 11/27/12 6:21:54 PM
Data Type: Reprocessed on 11/28/12 2:45:08 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121127A-3050-BLK

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	236.9	1.870	ug/L	1.2602	0.075	mg/kg	0.0504	67.39%
Al 308.215	-29.4	-16.15	ug/L	6.250	-0.646	mg/kg	0.2500	38.71%
As 188.979	2.5	0.456	ug/L	1.1894	0.018	mg/kg	0.0476	261.08%
B	55.8	13.18	ug/L	0.326	0.527	mg/kg	0.0131	2.48%
Ba 233.527	27.1	0.159	ug/L	0.0405	0.006	mg/kg	0.0016	25.47%
Be 313.107	-448.3	-0.069	ug/L	0.0234	-0.003	mg/kg	0.0009	33.74%
Ca 315.887	313.3	23.70	ug/L	0.558	0.948	mg/kg	0.0223	2.36%
Cd 214.440	164.2	0.435	ug/L	0.0134	0.017	mg/kg	0.0005	3.09%
Co 228.616	7.6	0.111	ug/L	0.2332	0.004	mg/kg	0.0093	210.81%
Cr 267.716	98.4	0.669	ug/L	0.0718	0.027	mg/kg	0.0029	10.74%
Cu 327.393	432.0	4.239	ug/L	0.5417	0.170	mg/kg	0.0217	12.78%
Fe 273.955	-15.9	-0.512	ug/L	0.6510	-0.020	mg/kg	0.0260	127.06%
K 766.490	0.5	0.216	ug/L	32.7729	0.009	mg/kg	1.3109	>999.9%
Mg 285.213	34.7	1.676	ug/L	0.2698	0.067	mg/kg	0.0108	16.10%
Mn 257.610	1.9	0.033	ug/L	0.0782	0.001	mg/kg	0.0031	234.17%
Mo 202.031	81.8	1.797	ug/L	0.4958	0.072	mg/kg	0.0198	27.60%
Na 589.592	610.1	45.07	ug/L	7.935	1.803	mg/kg	0.3174	17.61%
Ni 231.604	-114.2	-1.719	ug/L	0.3197	-0.069	mg/kg	0.0128	18.60%
P 213.617	104.2	14.22	ug/L	0.326	0.569	mg/kg	0.0130	2.29%
Pb 220.353	-57.7	-3.716	ug/L	0.5655	-0.149	mg/kg	0.0226	15.22%
Sb 206.836	-0.8	-0.114	ug/L	0.6531	-0.005	mg/kg	0.0261	572.64%
Se 196.026	-17.9	-3.524	ug/L	1.0397	-0.141	mg/kg	0.0416	29.50%
Sn 189.927	10.6	1.324	ug/L	0.8366	0.053	mg/kg	0.0335	63.20%
Sr 421.552	-39.5	-0.038	ug/L	0.0528	-0.002	mg/kg	0.0021	138.98%
Ti 337.279	24.6	0.522	ug/L	0.1281	0.021	mg/kg	0.0051	24.54%
Tl 190.801	-12.1	-1.776	ug/L	0.2890	-0.071	mg/kg	0.0116	16.27%
V 292.402	-211.2	-0.838	ug/L	0.2932	-0.034	mg/kg	0.0117	35.00%
Zn 206.200	53.0	0.568	ug/L	0.1460	0.023	mg/kg	0.0058	25.70%

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.4	104	80-120	11/27/12	11/27/12	#6010B-121127A-AY72103

Comments: _____

Sequence No.: 33
Sample ID: 121127A-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 90
Date Collected: 11/27/12 6:26:16 PM
Data Type: Reprocessed on 11/28/12 2:45:09 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121127A-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	12520.6	98.85	ug/L	1.227	3.954	mg/kg	0.0491	1.24%
Al 308.215	3454.2	1886	ug/L	15.0	75.45	mg/kg	0.600	0.79%
As 188.979	1296.8	240.7	ug/L	1.12	9.626	mg/kg	0.0446	0.46%
B	1060.8	252.3	ug/L	3.31	10.09	mg/kg	0.133	1.31%
Ba 233.527	42116.4	248.8	ug/L	3.55	9.952	mg/kg	0.1421	1.43%
Be 313.107	324621.8	50.14	ug/L	0.607	2.005	mg/kg	0.0243	1.21%
Ca 315.887	323412.5	24470	ug/L	374.0	978.9	mg/kg	14.96	1.53%
Cd 214.440	19508.2	51.58	ug/L	0.172	2.063	mg/kg	0.0069	0.33%
Co 228.616	18602.1	262.0	ug/L	1.00	10.48	mg/kg	0.040	0.38%
Cr 267.716	38691.5	263.7	ug/L	3.03	10.55	mg/kg	0.121	1.15%
Cu 327.393	25509.9	250.3	ug/L	4.25	10.01	mg/kg	0.170	1.70%
Fe 273.955	27948.5	997.1	ug/L	11.76	39.88	mg/kg	0.470	1.18%
K 766.490	10914.4	4606	ug/L	90.0	184.2	mg/kg	3.60	1.95%
Mg 285.213	500927.2	24240	ug/L	312.1	969.5	mg/kg	12.48	1.29%
Mn 257.610	14640.2	257.3	ug/L	1.15	10.29	mg/kg	0.046	0.45%
Mo 202.031	12174.7	267.8	ug/L	1.28	10.71	mg/kg	0.051	0.48%
Na 589.592	326121.8	24090	ug/L	326.7	963.6	mg/kg	13.07	1.36%
Ni 231.604	17423.1	261.7	ug/L	1.10	10.47	mg/kg	0.044	0.42%
P 213.617	14143.0	1930	ug/L	5.4	77.20	mg/kg	0.217	0.28%
Pb 220.353	4057.0	261.1	ug/L	1.98	10.44	mg/kg	0.079	0.76%
Sb 206.836	1558.7	232.3	ug/L	2.17	9.293	mg/kg	0.0869	0.94%
Se 196.026	1117.6	220.6	ug/L	2.01	8.826	mg/kg	0.0802	0.91%
Sn 189.927	2199.9	275.9	ug/L	1.93	11.04	mg/kg	0.077	0.70%
Sr 421.552	252858.6	241.7	ug/L	3.31	9.670	mg/kg	0.1324	1.37%
Ti 337.279	11644.1	246.6	ug/L	0.64	9.862	mg/kg	0.0257	0.26%
Tl 190.801	1697.3	248.7	ug/L	1.65	9.948	mg/kg	0.0659	0.66%
V 292.402	63410.2	266.8	ug/L	3.27	10.67	mg/kg	0.131	1.23%
Zn 206.200	48436.6	515.5	ug/L	6.34	20.62	mg/kg	0.254	1.23%

Metals Standards Log Book # 36 Page # 045

2%HNO3 / 2%HCl BLK				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
40 mL	HCL	BDH	UN1789-265	10/22/12
40 mL	HNO3	JT BAKER	L10023-266	10/24/12
Prepared in 2000 ml DI Water				

STD 1 / LDL 200.7				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.250 mL	200 7 LDL	O2SI	1040652-31584	11/01/13
Prepared in 50 ml 2%HNO3/2%HCl				

STD 3 / HDL 200.7				
0 5 mL	CCV-A	ABSOLUTE	012512-30926	01/25/15
0 5 mL	CCV-B	ABSOLUTE	021312-30928	02/13/15
0.5 mL	CCV-C	ABSOLUTE	012512-30927	01/25/15
Prepared in 100 ml 2%HNO3/2%HCl				

STD 2 / CCV1 200.7				
AMOUNT	STD	PREP DATE	EXP DATE	
25mL	STD 3	TODAY	1 WEEK	
25mL	2%HNO3/2%HCl	TODAY	1 WEEK	

CCV2 200.7			
15mL	STD 3	TODAY	1 WEEK
25mL	6HNO3/2%HC	TODAY	1 WEEK

200.7 ICV				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.25ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.25ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 2%HNO3/2%HCl				

200.7 ICSA				
0.5mL	Al	CPI	11J015-30092	05/28/13
0.5mL	Ca	CPI	11J031-29989	05/14/13
0.5mL	Mg	CPI	11K178-30093	05/28/13
0.5mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 2%HNO3/2%HCl				

200.7 ICSAB				
0.5mL	Al	CPI	11J015-30092	05/28/13
0.5mL	Ca	CPI	11J031-29989	05/14/13
0.5mL	Mg	CPI	11K178-30093	05/28/13
0.5mL	Fe	O2SI	1030787-30616	05/17/13
0 25mL	INT SPECIAL MIX	O2SI	1032370-30265	2/1/13
Prepared in 50 ml 2%HNO3/2%HCl				

SA 11-27-12

1%HNO3 / 5%HCl BLK				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	EMD	UN1789-265	10/22/12
20 mL	HNO3	JT BAKER	L10023-266	10/24/12
Prepared in 2000 ml DI Water				

STD 1 / LDL 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13
Prepared in 50 ml 1%HNO3/5%HCl				

STD 3 / HDL 6010B/6010C				
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15
Prepared in 100 ml 1%HNO3 / 5%HCl				

STD 2 / CCV1 6010B/6010C/6010C			
AMOUNT	STD	PREP DATE	EXP DATE
25mL	STD 3	Today	1 week
25mL	1%HNO3/5%HCl	Today	1 week

CCV2 6010B/6010C			
AMOUNT	STD	PREP DATE	EXP DATE
15mL	STD 3	Today	1 week
25mL	1%HNO3/5%HCl	Today	1 week

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 1%HNO3/5%HCl				

6010B/6010C ICSAB				
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 50 ml 1%HNO3/5%HCl				

6010B/6010C ICV				
0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 1%HNO3/5%HCl				

SA 11-27-12

SA 11-27-12

6010B-C

SA 11-24-12

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121127A **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 1039704-31514		
Spiked ID 2	LCSW LOT# 1039705-31515		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	11/27/12 10:25:00 AM
Witnessed By	BC	Date:	11/27/12 10:25:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	11/27/12 15:30

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121127A Blk				2.50g	100mL	11/27/12 10:25	equip: Modblock4
2	121127A LCS		1mL	1+2	2.50g	100mL	11/27/12 10:25	equip: Modblock4
3	AY71478	AY71478M01			2.45g	100mL	11/27/12 10:25	equip: Modblock4
4	AY71480	AY71480M01			2.48g	100mL	11/27/12 10:25	equip: Modblock4
5	AY71482	AY71482M01			1.86g	100mL	11/27/12 10:25	equip: Modblock4
6	AY71484	AY71484M01			1.07g	100mL	11/27/12 10:25	equip: Modblock4
7	AY71486	AY71486M01			1.62g	100mL	11/27/12 10:25	equip: Modblock4
8	AY71558	AY71558M01			0.95g	100mL	11/27/12 10:25	equip: Modblock4
9	AY72097	AY72097M01			2.45g	100mL	11/27/12 10:25	equip: Modblock4
10	AY72100	AY72100M01			2.47g	100mL	11/27/12 10:25	equip: Modblock4
11	AY72103	AY72103M01			2.57g	100mL	11/27/12 10:25	equip: Modblock4
12	AY72103 MS	AY72103M01	2mL	1+2	2.57g	100mL	11/27/12 10:25	equip: Modblock4
13	AY72103 MSD	AY72103M01	2mL	1+2	2.57g	100mL	11/27/12 10:25	equip: Modblock4

Solvent and Lot#
1:1 HNO3 11-9-12
HNO3 J.T.B. L10023 0276
H2O2 J.T.B K20J00 0254
HCL EMD Lot# 4112030 0277

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	EA
Date	11-27-12
Time	15:30
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	11/27/12 11:23:59 AM

Reviewed By: EA **Date:** 11-27-12

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	27 Nov 2012	15:48	CalBlk 121127EA I:PB O:EA		121127A6010	1.
2	27 Nov 2012	15:52	STD 1 121127EA I:PB O:EA		121127A6010	1.
3	27 Nov 2012	15:56	STD 2 121127EA I:PB O:EA		121127A6010	1.
4	27 Nov 2012	15:59	STD 3 121127EA I:PB O:EA		121127A6010	1.
5	27 Nov 2012	16:03	ICV 121127EA I:PB O:EA		121127A6010	1.
6	27 Nov 2012	16:06	ICB 121127EA I:PB O:EA		121127A6010	1.
8	27 Nov 2012	16:14	ICSA 121127EA I:PB O:EA		121127A6010	1.
9	27 Nov 2012	16:18	ICSAB 121127EA I:PB O:EA		121127A6010	1.
10	27 Nov 2012	16:22	CCV1 121127EA I:PB O:EA		121127A6010	1.
11	27 Nov 2012	16:28	CCB 121127EA I:PB O:EA		121127A6010	1.
30	27 Nov 2012	18:14	CCV1 121127EA I:PB O:EA		121127A6010	1.
31	27 Nov 2012	18:17	CCB 121127EA I:PB O:EA		121127A6010	1.
32	27 Nov 2012	18:21	121127A-3050-BLK		121127A6010	1.
33	27 Nov 2012	18:26	121127A-3050-LCS		121127A6010	1.
41	27 Nov 2012	19:08	AY72097M01		121127A6010	1.
42	27 Nov 2012	19:16	CCV2 121127EA I:PB O:EA		121127A6010	1.
43	27 Nov 2012	19:23	CCB 121127EA I:PB O:EA		121127A6010	1.
44	27 Nov 2012	19:27	AY72100M01		121127A6010	1.
45	27 Nov 2012	19:33	AY72103M01		121127A6010	1.
48	27 Nov 2012	19:47	AY72103M01-A		121127A6010	1.
50	27 Nov 2012	19:57	CCV1 121127EA I:PB O:EA		121127A6010	1.
51	27 Nov 2012	20:05	CCB 121127EA I:PB O:EA		121127A6010	1.

Wetlab Results

ARF: 69341

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
APPL ID: AY72097	-Client Sample ID: GT12027M		-Sample Collection Date: 11/17/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	76.7	2.0	%	11/29/12	11/30/12
APPL ID: AY72100	-Client Sample ID: GT12028M		-Sample Collection Date: 11/17/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	74.1	2.0	%	11/29/12	11/30/12
APPL ID: AY72103	-Client Sample ID: GT12029M		-Sample Collection Date: 11/17/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	75.1	2.0	%	11/29/12	11/30/12

Printed: 11/30/12 11:45:23 AM

% Moisture

Batch: QCG 121129-M004564

Method: CLP 4.0

Date: 11/29/12 16:25

Sample	Container	Pan (g)	Pan+Wet (g)	Pan+Dry 1 (g)	Pan+Dry 2 (g)	Moisture (%)	Comments
AY72103	m01	0.8385 11/29/12 16:25	7.5674 11/29/12 16:25	2.5125 11/30/12 08:12	2.5125 11/30/12 08:12	75.122	AY72103M01
AY72100	m01	0.8311 11/29/12 16:24	7.9967 11/29/12 16:25	2.6838 11/30/12 08:12	2.6838 11/30/12 08:12	74.145	AY72100M01
AY72097D	m01	0.8352 11/29/12 16:23	7.2846 11/29/12 16:24	2.2546 11/30/12 08:11	2.2547 11/30/12 08:11	77.990	AY72097M01
AY72097	m01	0.8271 11/29/12 16:21	7.2612 11/29/12 16:22	2.3263 11/30/12 08:11	2.3263 11/30/12 08:11	76.699	AY72097M01

Date/Time InOven@104°C	Date/Time OutOven@104°C	Date/Time InOven@104°C	Date/Time OutOven@104°C
11/29/12 4:26:00 PM			11/30/12 8:11:00 AM

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
11/29/12	BB	Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0004 g	19.9800	20.0200	
		Mettler AT200	50g	50.0005 g	49.9500	50.0500	
		Mettler AT200	100g	100.0012 g	99.9000	100.1000	
		Mettler AT200	150g	150.0016 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.01 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
11/30/12	BB						Yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0003 g	19.9800	20.0200	
		Mettler AT200	50g	50.0005 g	49.9500	50.0500	
		Mettler AT200	100g	100.0010 g	99.9000	100.1000	
		Mettler AT200	150g	150.0015 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
		Mettler AT200	0.5g	g	0.4995	0.5005	
		Mettler AT200	1g	g	0.9990	1.0010	
		Mettler AT200	20g	g	19.9800	20.0200	
		Mettler AT200	50g	g	49.9500	50.0500	
		Mettler AT200	100g	g	99.9000	100.1000	
		Mettler AT200	150g	g	149.8500	150.1500	
		OHAUS ARC120	0.1g	g	0.08	0.12	
		OHAUS ARC120	0.5g	g	0.48	0.52	
		OHAUS ARC120	1g	g	0.98	1.02	
		OHAUS ARC120	100g	g	98.00	102.00	
		OHAUS ARC120	1kg	g	980.00	1020.00	
		OHAUS ARC120	2kg	g	1960.00	2040.00	
		Mettler AT200	0.5g	g	0.4995	0.5005	
		Mettler AT200	1g	g	0.9990	1.0010	
		Mettler AT200	20g	g	19.9800	20.0200	
		Mettler AT200	50g	g	49.9500	50.0500	
		Mettler AT200	100g	g	99.9000	100.1000	
		Mettler AT200	150g	g	149.8500	150.1500	
		OHAUS ARC120	0.1g	g	0.08	0.12	
		OHAUS ARC120	0.5g	g	0.48	0.52	
		OHAUS ARC120	1g	g	0.98	1.02	
		OHAUS ARC120	100g	g	98.00	102.00	
		OHAUS ARC120	1kg	g	980.00	1020.00	
		OHAUS ARC120	2kg	g	1960.00	2040.00	

Laboratory Report

Parsons

Project #: 748350.02000 CSSA

ARF: 69366

Samples collected: November 24, 2012

APPL, Inc.

Data Validatable Package

for

Project #: 748350.02000 CSSA

ARF 69366

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Raw Data	70

CASE NARRATIVE

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

EPA Method 6010B
Metals

Case Narrative

ARF: 69366

Project: 748350.02000 CSSA

California State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Texas Certificate Number: T104704242-10-3

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

Four miscellaneous samples were received November 27, 2012, at 2.0°C. The samples were assigned Analytical Request Form (ARF) number 69366. The sample numbers and requested analyses were compared to the chain of custody. No exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
GT12030B	AY72185	MISC	11/24/12	11/27/12
GT12030L	AY72186	MISC	11/24/12	11/27/12
GT12031B	AY72188	MISC	11/24/12	11/27/12
GT12031L	AY72189	MISC	11/24/12	11/27/12

Percent moisture was determined using CLP 4.0 for the liver samples. Percent moisture was not determined on the bone samples.

Digestion Information:

The liver samples were frozen and homogenized according to APPL's SOP PRE003. The bone samples were dried in the oven at 104°C; once dried, a drill was used to "shave" the bone and obtain a representative sample. For the bone samples, less than 2.5grams was digested because of the difficulty in shaving the bones. An aliquot of the homogenized liver sample and bone was digested according to EPA method 3050B. Since the laboratory was unable to obtain a similar clean matrix, the blank and the LCS were digested according to APPL's SOP PRE3050B. No other exception was encountered. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed according to EPA method 6010B using a Perkin Elmer Optima 5300DV ICP.

Calibrations:

Calibrations were performed according to the method for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard. All other calibration acceptance criteria were met.

Blanks:

No target metal was detected above the reporting limit (RL) in the method blanks.

Spikes:

Laboratory Control Spikes (LCS), post-digestion spikes (PDS), and dilution tests were used for quality assurance. All LCS acceptance criteria were met.

For the 121205A analytical batch, sample GT12032M (APPL SDG #69413) was selected as the QC sample. The dilution test was not applicable. The PDS met acceptance criteria.

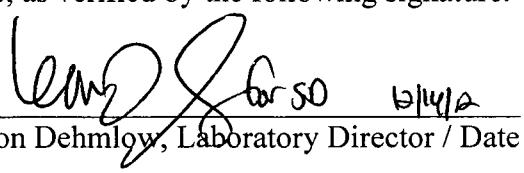
For the 121210A analytical batch, sample GT12032B (APPL SDG #69412) was selected as the QC sample. The dilution test was not applicable. The PDS recovered below the 75% lower control limit at 72.0%. All associated samples are flagged with a "J" in accordance with the CSSA QAPP guidelines.

Summary:

No other analytical exception is noted.

CERTIFICATION

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. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.



Sharon Dehmlow, Laboratory Director / Date

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 69366

Client: **Parsons**
Address: **8000 Centre Park Drive Ste 200**
Austin, TX 78754
Attn: **Tammy Chang**
Phone: **512-719-6092** Fax: **512-719-6099**
Job: **748350.02000 CSSA**
PO #: **748350.30002 (prime *G012)**
Chain of Custody (Y/N): **Y** # **112612APPFA**
RAD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **STD**

Received by: **WLA**
Date Received: **11/27/12** Time: **11:38**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-6**
Chest Temp(s): **2.0°C**
Color: **A_FREZ**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Diane Anderson**
QC Report Type: **DVP4/AFCEE/ERPIMS/TX**
Due Date: **12/18/12**

Comments:
pdf ARF to Tammy & Pam; send 1 DVP3 HC & send DVP3 & DVP4 on CD to Tammy.

Case Narrative. CSSA QAPP. Only report MS/MSD when requested.
Report results on APPL forms: U to the RL-no J values; report results in wet weight (without moisture
Wait to do moisture analysis after metals analysis.
EDD: ERPIMS 4 Lab PC4 checked TXF to Pamela.Ford@parsons.com

Sample Distribution:
Metals: 4-$6010BDODS(Pb)
Wetlab: 2-MOIST
Other: 4-_M3050

Charges:

Invoice To:
PARSONS GOV'T SERV.
8000 Centre Park Drive Ste 200
Austin, TX 78754-5140
Attn: Ellen Felfe

	Client ID	APPL ID	Sampled	Analyses Requested
1.	GT12030B	AY72185M	11/24/12 08:30	$6010BDODS(Pb)
2.	GT12030L	AY72186M	11/24/12 08:30	$6010BDODS(Pb), MOIST
3.	GT12031B	AY72188M	11/24/12 09:00	$6010BDODS(Pb)
4.	GT12031L	AY72189M	11/24/12 09:00	$6010BDODS(Pb), MOIST

APPL Sample Receipt Form

ARF# **69366**

Sample	Container Type	Count	pH
AY72185	35 Plastic Bag	1	NA
AY72186	35 Plastic Bag	1	NA
AY72188	35 Plastic Bag	1	NA
AY72189	35 Plastic Bag	1	NA

Sample	Container Type	Count	pH

Camp Stanley Storage Activity Chain Of Custody

64366
69367

2.0°C

COC ID:	112612APPFA	Relinquish_Date:	11/26/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF
Job Number:	748350.02000	Relinquish_Time:	2:00 PM	Carrier:	FedEx
Creation Date:	11/26/2012	Collection Team:	SE	Airbill Carrier:	876436444112
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): Sam Elliott

LOCID: **GT12030B** LOGDATE: **11/24/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **8:30** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12030B_112412_N0830** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12030L** LOGDATE: **11/24/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **8:30** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12030L_112412_N0830** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12030M** LOGDATE: **11/24/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **8:30** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12030M_112412_N0830** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12031B** LOGDATE: **11/24/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **9:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12031B_112412_N0900** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12031L** LOGDATE: **11/24/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **9:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12031L_112412_N0900** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12031M** LOGDATE: **11/24/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **9:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12031M_112412_N0900** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

Relinquished by: S. Elliott Date 11/26/12 Time 1400
Recieved by: Yang Zu Date 11/27/12 Time 11:38

Relinquished by:_____ Date_____ Time____
Recieved by:_____ Date_____ Time____

Relinquished by:_____ Date_____ Time____
Recieved by:_____ Date_____ Time____

COOLER RECEIPT FORM

1) Project: 748350.02000 CSSA Date Received: 11/27/12

2) Coolers: Number of Coolers: 1

3) YES NO Were coolers and samples screened for radioactivity?

4) YES NO Were custody seals on outside of cooler? How many? 1 Date on seal? 11/26/12

5) Name on seal? See Label

6) YES NO NA Were custody seals unbroken and intact at the time of arrival?

7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex

8) Shipping slip numbers: 1) 8764 3644 4112 2) 3)

9) YES NO NA Was the shipping slip scanned into the database?

10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): 2 ziploc in wet ice

12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?

13) YES NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: IR5297 Correction factor: 0

15) Cooler temp(s): 1) 2.0°C 2) 3) 4) 5) 6) 7) 8)

Chain of custody:

16) YES NO Was a chain of custody received?

17) YES NO Were the custody papers signed in the appropriate places?

18) YES NO Was the project identifiable from custody papers?

19) YES NO Did the chain of custody include date and time of sampling?

20) YES NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) YES NO Were container labels in good condition?

22) YES NO Was the client ID on the label?

23) YES NO Was the date of sampling on the label?

24) YES NO Was the time of sampling on the label?

25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?

27) YES NO Did all containers arrive unbroken?

28) YES NO Was there any leakage from samples?

29) YES NO Were any of the lids cracked or broken?

30) YES NO Were correct containers used for the tests indicated?

31) YES NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea:

Smaller than a pea:

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO NA Unpreserved VOA Vials received?

38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

Lab notified if pH was not adequate:

Deficiencies:

Signature of personnel receiving samples: Second reviewer: Will Johnson

Signature of project manager notified: Date and Time of notification:

Name of client notified: Date and Time of notification:

Information given to client:

by whom (Initials):

Initials

Date 11/26/12

CUSTODY SEAL

APPL, Inc.

(559) 275-2175

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/10/12	12/11/12	#6010B-121210A-AY72368
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/05/12	12/05/12	#6010B-121205A-AY72370

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.3	103	80-120	12/05/12	12/05/12	#6010B-121205A-AY72370

Comments: _____

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	9.4	94.0	80-120	12/10/12	12/11/12	#6010B-121210A-AY72368

Comments: _____

METALS
Sample Data

APPL, INC.

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12030B
Sample Collection Date: 11/24/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69366
APPL ID: AY72185

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U J	0.50	mg/kg	1	12/10/12	12/11/12

J = Estimated value.

Printed: 12/13/12 4:39:54 PM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 119
Sample ID: AY72185M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2 g
Dilution:

Autosampler Location: 53
Date Collected: 12/11/12 7:45:09 PM
Data Type: Reprocessed on 12/12/12 9:41:31 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72185M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	618.1	4.849	ug/L	0.2635	0.242	mg/kg	0.0132	5.43%
Al 308.215	76.4	-13.72	ug/L	6.861	-0.686	mg/kg	0.3430	50.00%
As 188.979	68.3	13.04	ug/L	2.324	0.652	mg/kg	0.1162	17.81%
B	187.0	-19.47	ug/L	3.352	-0.974	mg/kg	0.1676	17.22%
Ba 233.527	139856.6	861.3	ug/L	5.92	43.07	mg/kg	0.296	0.69%
Be 313.107	-4843.4	-0.776	ug/L	0.0229	-0.039	mg/kg	0.0011	2.95%
Ca 315.887	30683223.1	2570000	ug/L	11468.8	128500	mg/kg	573.4	0.45%
Cd 214.440	-30.3	-5.536	ug/L	0.0447	-0.277	mg/kg	0.0022	0.81%
Co 228.616	210.7	-5.331	ug/L	0.1599	-0.267	mg/kg	0.0080	3.00%
Cr 267.716	7970.3	50.32	ug/L	0.156	2.516	mg/kg	0.0078	0.31%
Cu 327.393	-806.0	-8.837	ug/L	0.8051	-0.442	mg/kg	0.0403	9.11%
Fe 273.955	3353.4	68.10	ug/L	0.938	3.405	mg/kg	0.0469	1.38%
K 766.490	7667.8	2020	ug/L	61.2	101.0	mg/kg	3.06	3.03%
Mg 285.213	952697.5	48570	ug/L	201.2	2429	mg/kg	10.1	0.41%
Mn 257.610	586.8	-1.716	ug/L	0.1290	-0.086	mg/kg	0.0065	7.52%
Mo 202.031	-72.4	-14.67	ug/L	0.396	-0.734	mg/kg	0.0198	2.70%
Na 589.592	1070836.3	80790	ug/L	443.7	4039	mg/kg	22.2	0.55%
Ni 231.604	671.7	9.932	ug/L	0.1155	0.497	mg/kg	0.0058	1.16%
P 213.617	7644939.6	1101000	ug/L	15407.7	55030	mg/kg	770.4	1.40%
Pb 220.353	-60.3	-4.151	ug/L	0.3313	-0.208	mg/kg	0.0166	7.98%
Sb 206.836	-2.9	-0.460	ug/L	1.4126	-0.023	mg/kg	0.0706	307.11%
Se 196.026	33.2	-32.37	ug/L	2.398	-1.618	mg/kg	0.1199	7.41%
Sn 189.927	120.1	16.94	ug/L	0.906	0.847	mg/kg	0.0453	5.35%
Sr 421.552	562895.7	542.0	ug/L	3.39	27.10	mg/kg	0.169	0.62%
Ti 337.279	1422.4	26.72	ug/L	0.560	1.336	mg/kg	0.0280	2.10%
Tl 190.801	-11.3	-1.708	ug/L	0.5544	-0.085	mg/kg	0.0277	32.47%
V 292.402	80.8	-1.044	ug/L	0.1640	-0.052	mg/kg	0.0082	15.72%
Zn 206.200	80930.8	935.9	ug/L	4.51	46.79	mg/kg	0.225	0.48%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12030L
Sample Collection Date: 11/24/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69366
APPL ID: AY72186

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	12/05/12	12/05/12

Printed: 12/13/12 4:39:54 PM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 67
Sample ID: AY72186M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.56 g
Dilution:

Autosampler Location: 141
Date Collected: 12/05/12 2:56:22 PM
Data Type: Reprocessed on 12/06/12 10:13:28 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72186M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	18.9	0.146	ug/L	0.2153	0.006	mg/kg	0.0084	147.99%
Al 308.215	17.8	10.96	ug/L	3.260	0.428	mg/kg	0.1273	29.75%
As 188.979	13.3	2.388	ug/L	0.3474	0.093	mg/kg	0.0136	14.55%
B	14.1	8.808	ug/L	0.8504	0.344	mg/kg	0.0332	9.65%
Ba 233.527	308.5	0.820	ug/L	0.0233	0.032	mg/kg	0.0009	2.84%
Be 313.107	-210.5	-0.031	ug/L	0.0121	-0.001	mg/kg	0.0005	38.58%
Ca 315.887	19426.8	1565	ug/L	42.1	61.12	mg/kg	1.646	2.69%
Cd 214.440	1159.1	2.820	ug/L	0.0234	0.110	mg/kg	0.0009	0.83%
Co 228.616	45.0	0.535	ug/L	0.2962	0.021	mg/kg	0.0116	55.33%
Cr 267.716	473.5	3.070	ug/L	0.0877	0.120	mg/kg	0.0034	2.86%
Cu 327.393	124675.1	986.1	ug/L	3.72	38.52	mg/kg	0.145	0.38%
Fe 273.955	42770.4	1555	ug/L	12.5	60.74	mg/kg	0.487	0.80%
K 766.490	158193.3	73500	ug/L	306.0	2871	mg/kg	12.0	0.42%
Mg 285.213	86782.9	4503	ug/L	28.1	175.9	mg/kg	1.10	0.62%
Mn 257.610	1394.5	25.95	ug/L	0.084	1.014	mg/kg	0.0033	0.33%
Mo 202.031	87.6	2.156	ug/L	0.1592	0.084	mg/kg	0.0062	7.38%
Na 589.592	186674.1	14620	ug/L	82.6	571.1	mg/kg	3.23	0.56%
Ni 231.604	-17.8	-0.317	ug/L	0.1604	-0.012	mg/kg	0.0063	50.63%
P 213.617	624585.6	81700	ug/L	876.8	3191	mg/kg	34.2	1.07%
Pb 220.353	-11.9	-0.723	ug/L	0.4128	-0.028	mg/kg	0.0161	57.08%
Sb 206.836	1.0	0.155	ug/L	0.7783	0.006	mg/kg	0.0304	501.43%
Se 196.026	171.9	28.21	ug/L	1.588	1.102	mg/kg	0.0620	5.63%
Sn 189.927	-48.0	-5.601	ug/L	0.7932	-0.219	mg/kg	0.0310	14.16%
Sr 421.552	1247.0	1.480	ug/L	0.0573	0.058	mg/kg	0.0022	3.87%
Ti 337.279	17.8	0.053	ug/L	0.3002	0.002	mg/kg	0.0117	570.82%
Tl 190.801	-1.5	-0.216	ug/L	0.5280	-0.008	mg/kg	0.0206	244.06%
V 292.402	28.8	-0.259	ug/L	0.5675	-0.010	mg/kg	0.0222	218.76%
Zn 206.200	59141.4	586.9	ug/L	3.97	22.93	mg/kg	0.155	0.68%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12031B
Sample Collection Date: 11/24/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69366
APPL ID: AY72188

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U J	0.50	mg/kg	1	12/10/12	12/11/12

J = Estimated value.

Printed: 12/13/12 4:39:54 PM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 120
Sample ID: AY72188M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.06 g
Dilution:

Autosampler Location: 54
Date Collected: 12/11/12 7:50:49 PM
Data Type: Reprocessed on 12/12/12 9:41:32 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72188M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	591.0	4.637	ug/L	0.0806	0.225	mg/kg	0.0039	1.74%
Al 308.215	215.3	69.08	ug/L	4.787	3.353	mg/kg	0.2324	6.93%
As 188.979	55.5	10.60	ug/L	0.534	0.515	mg/kg	0.0259	5.04%
B	150.4	-27.13	ug/L	0.460	-1.317	mg/kg	0.0223	1.70%
Ba 233.527	123726.3	761.4	ug/L	8.14	36.96	mg/kg	0.395	1.07%
Be 313.107	-4940.3	-0.791	ug/L	0.0217	-0.038	mg/kg	0.0011	2.74%
Ca 315.887	30855003.7	2584000	ug/L	45609.8	125500	mg/kg	2214.1	1.76%
Cd 214.440	46.4	-5.481	ug/L	0.1434	-0.266	mg/kg	0.0070	2.62%
Co 228.616	215.7	-5.446	ug/L	0.4122	-0.264	mg/kg	0.0200	7.57%
Cr 267.716	8441.3	53.65	ug/L	0.247	2.605	mg/kg	0.0120	0.46%
Cu 327.393	-1926.3	-21.12	ug/L	3.220	-1.025	mg/kg	0.1563	15.25%
Fe 273.955	13340.8	455.7	ug/L	2.70	22.12	mg/kg	0.131	0.59%
K 766.490	9859.0	2873	ug/L	76.0	139.5	mg/kg	3.69	2.64%
Mg 285.213	960188.5	48950	ug/L	294.5	2376	mg/kg	14.3	0.60%
Mn 257.610	564.4	-2.194	ug/L	0.0849	-0.106	mg/kg	0.0041	3.87%
Mo 202.031	-76.0	-14.83	ug/L	0.427	-0.720	mg/kg	0.0207	2.88%
Na 589.592	1110540.7	83790	ug/L	481.0	4067	mg/kg	23.3	0.57%
Ni 231.604	23793.4	376.0	ug/L	1.48	18.25	mg/kg	0.072	0.39%
P 213.617	7694931.5	1108000	ug/L	10367.4	53770	mg/kg	503.3	0.94%
Pb 220.353	-69.4	-4.779	ug/L	0.6750	-0.232	mg/kg	0.0328	14.12%
Sb 206.836	6.0	0.958	ug/L	0.5422	0.046	mg/kg	0.0263	56.61%
Se 196.026	12.1	-36.35	ug/L	3.716	-1.765	mg/kg	0.1804	10.22%
Sn 189.927	57.5	8.105	ug/L	0.6427	0.393	mg/kg	0.0312	7.93%
Sr 421.552	471123.5	450.6	ug/L	2.63	21.88	mg/kg	0.128	0.58%
Ti 337.279	2635.8	54.43	ug/L	0.123	2.642	mg/kg	0.0060	0.23%
Tl 190.801	-15.2	-2.286	ug/L	0.9768	-0.111	mg/kg	0.0474	42.73%
V 292.402	246.4	-0.442	ug/L	0.1356	-0.021	mg/kg	0.0066	30.68%
Zn 206.200	62778.9	726.9	ug/L	9.29	35.29	mg/kg	0.451	1.28%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12031L
Sample Collection Date: 11/24/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69366
APPL ID: AY72189

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	12/05/12	12/05/12

Printed: 12/13/12 4:39:54 PM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 71
Sample ID: AY72189M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.57 g
Dilution:

Autosampler Location: 143
Date Collected: 12/05/12 3:40:01 PM
Data Type: Reprocessed on 12/06/12 10:13:34 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72189M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-98.7	-0.760	ug/L	1.3766	-0.030	mg/kg	0.0536	181.15%
Al 308.215	22.1	13.61	ug/L	9.501	0.530	mg/kg	0.3697	69.80%
As 188.979	13.4	2.395	ug/L	0.8343	0.093	mg/kg	0.0325	34.84%
B	41.8	18.52	ug/L	2.169	0.721	mg/kg	0.0844	11.72%
Ba 233.527	503.1	1.458	ug/L	0.1258	0.057	mg/kg	0.0049	8.63%
Be 313.107	-141.3	-0.021	ug/L	0.0083	-0.001	mg/kg	0.0003	39.09%
Ca 315.887	20561.2	1657	ug/L	4.9	64.46	mg/kg	0.190	0.29%
Cd 214.440	731.2	1.699	ug/L	0.0218	0.066	mg/kg	0.0008	1.28%
Co 228.616	53.5	0.645	ug/L	0.1871	0.025	mg/kg	0.0073	29.03%
Cr 267.716	437.6	2.839	ug/L	0.2073	0.110	mg/kg	0.0081	7.30%
Cu 327.393	107426.2	849.6	ug/L	8.82	33.06	mg/kg	0.343	1.04%
Fe 273.955	66770.3	2429	ug/L	15.7	94.52	mg/kg	0.611	0.65%
K 766.490	146014.1	67840	ug/L	369.4	2640	mg/kg	14.4	0.54%
Mg 285.213	85048.2	4414	ug/L	25.9	171.7	mg/kg	1.01	0.59%
Mn 257.610	1891.0	35.31	ug/L	0.195	1.374	mg/kg	0.0076	0.55%
Mo 202.031	211.5	4.914	ug/L	0.0624	0.191	mg/kg	0.0024	1.27%
Na 589.592	250942.7	19670	ug/L	84.3	765.2	mg/kg	3.28	0.43%
Ni 231.604	-33.1	-0.532	ug/L	0.1117	-0.021	mg/kg	0.0043	20.99%
P 213.617	608623.8	79610	ug/L	700.9	3098	mg/kg	27.3	0.88%
Pb 220.353	-9.2	-0.563	ug/L	0.4921	-0.022	mg/kg	0.0191	87.42%
Sb 206.836	2.9	0.442	ug/L	0.5682	0.017	mg/kg	0.0221	128.51%
Se 196.026	160.7	26.82	ug/L	1.604	1.044	mg/kg	0.0624	5.98%
Sn 189.927	-49.6	-5.793	ug/L	1.3529	-0.225	mg/kg	0.0526	23.35%
Sr 421.552	1255.0	1.458	ug/L	0.2571	0.057	mg/kg	0.0100	17.63%
Ti 337.279	35.1	0.493	ug/L	0.2997	0.019	mg/kg	0.0117	60.81%
Tl 190.801	-3.6	-0.512	ug/L	0.6588	-0.020	mg/kg	0.0256	128.55%
V 292.402	121.3	-0.064	ug/L	0.3402	-0.003	mg/kg	0.0132	528.32%
Zn 206.200	38262.3	379.9	ug/L	2.23	14.78	mg/kg	0.087	0.59%

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69366 SDG: 69366
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 12/05/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:57	%R(1)	True CCV1	Found 10:22	%R(1)	True CCV1	Found 14:03	%R(1)	
Lead (Pb)	1000	1048	105	1000	1063	106	1000	1037	104	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No: 69366 SDG: 69366

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 12/05/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:57	%R(1)	True CCV2	Found 15:23	%R(1)	True CCV1	Found 16:25	%R(1)	
Lead (Pb)	1000	1048	105	750	804.9	107	1000	1028	103	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69366 SDG: 69366

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 12/05/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C			
	10:00		10:26		14:07		15:29		14:12				
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U	P		

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69366 SDG: 69366

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 12/05/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
	C		1	C	2	C	3	C	C		
	10:00		16:37						14:12		
Lead (Pb)	5.00	U	5.00	U					.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69366 SDG: 69366

ICP ID Number: Phoebe ICS Source: Environmental Express

Analysis Date: 12/05/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 10:13	Sol AB 10:18	%R(1)
Aluminum (Al)	200000	200000	190700	190500	95.3
Calcium (Ca)	200000	200000	192600	192400	96.2
Iron (Fe)	200000	200000	178100	176300	88.2
Magnesium (Mg)	200000	200000	187100	187200	93.6
Lead (Pb)		1000	1.078	941.2	94.1

(1) Control Limits: Metals 80-120

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69366 SDG: 69366
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 12/11/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 10:26	%R(1)	True CCV1	Found 10:48	%R(1)	True CCV1	Found 19:11	%R(1)	
Lead (Pb)	1000	1045	105	1000	1049	105	1000	969.1	96.9	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69366 SDG: 69366
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 12/11/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 10:26	%R(1)	True CCV2	Found 20:12	%R(1)	True	Found	%R(1)	
Lead (Pb)	1000	1045	105	750	774.6	103				P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69366 SDG: 69366

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 12/11/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	10:30		10:53		19:15		20:19		19:19		
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name:	A.P.P.L. INC.	Contract:	Parsons
ARF No.:	69366	SDG:	69366
ICP ID Number:	Phoebe	ICS Source:	Environmental Express

Analysis Date: 12/11/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 10:39	Sol AB 10:44	%R(1)
Aluminum (Al)	200000	200000	189000	189000	94.5
Calcium (Ca)	200000	200000	190700	190900	95.5
Iron (Fe)	200000	200000	176000	174700	87.3
Magnesium (Mg)	200000	200000	186800	186600	93.3
Lead (Pb)		1000	0.314	921.9	92.2

(1) Control Limits: Metals 80-120

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

GT12032M

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69413 SDG: 69413

Analysis Date: 12/05/12 Concentration Units: mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	19		ND		20.000	95.0		

Comments:

12/05/12 15:56 AY72370M01

12/05/12 16:11 AY72370M01-A

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

GT12032B

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69412 SDG: 69412

Analysis Date: 12/11/12 Concentration Units: mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	18.35		0.363		25.000	72.0		M

Comments:

12/11/12 19:56 AY72368M01

12/11/12 20:02 AY72368M01-A

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

GT12032M

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69413 SDG: 69413

Analysis Date: 12/05/12 Concentration Units: mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	19		ND		20.000	95.0		

Comments:

12/05/12 15:56 AY72370M01

12/05/12 16:11 AY72370M01-A

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 121205A6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1
Sample ID: CalBlk 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 9:41:54 AM
Data Type: Reprocessed on 12/06/12 10:12:12 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CalBlk 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Calib Units
Ag 338.289	-285.5	98.06	34.35%	[0.00]	ug/L
Al 308.215	131.7	11.54	8.76%	[0.00]	ug/L
As 188.979	-3.2	5.27	163.63%	[0.00]	ug/L
B	3.8	13.03	342.06%	[0.00]	ug/L
Ba 233.527	155.1	13.37	8.62%	[0.00]	ug/L
Be 313.107	2029.5	101.46	5.00%	[0.00]	ug/L
Ca 315.887	-289.3	32.18	11.13%	[0.00]	ug/L
Cd 214.440	462.2	19.06	4.12%	[0.00]	ug/L
Co 228.616	96.5	20.64	21.38%	[0.00]	ug/L
Cr 267.716	857.1	12.89	1.50%	[0.00]	ug/L
Cu 327.393	-819.1	107.73	13.15%	[0.00]	ug/L
Fe 273.955	294.3	17.50	5.94%	[0.00]	ug/L
K 766.490	-496.4	39.07	7.87%	[0.00]	ug/L
Mg 285.213	-151.3	7.50	4.96%	[0.00]	ug/L
Mn 257.610	-74.2	5.40	7.28%	[0.00]	ug/L
Mo 202.031	177.7	9.21	5.18%	[0.00]	ug/L
Na 589.592	-148.2	134.40	90.68%	[0.00]	ug/L
Ni 231.604	-156.9	10.43	6.65%	[0.00]	ug/L
P 213.617	68.9	7.90	11.46%	[0.00]	ug/L
Pb 220.353	-28.4	3.93	13.83%	[0.00]	ug/L
Sb 206.836	-5.5	2.73	50.04%	[0.00]	ug/L
Se 196.026	-23.0	9.37	40.78%	[0.00]	ug/L
Sn 189.927	-14.3	3.95	27.72%	[0.00]	ug/L
Sr 421.552	873.4	132.64	15.19%	[0.00]	ug/L
Ti 337.279	-464.2	13.18	2.84%	[0.00]	ug/L
Tl 190.801	-13.0	1.44	11.05%	[0.00]	ug/L
V 292.402	-729.2	116.65	16.00%	[0.00]	ug/L
Zn 206.200	-538.5	10.20	1.89%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 12/05/12 9:46:14 AM
Data Type: Reprocessed on 12/06/12 10:12:13 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	71.4	28.31	39.67%	[1.00]	ug/L
Al 308.215	172.0	10.58	6.15%	[100.00]	ug/L
As 188.979	20.7	1.32	6.41%	[3.50]	ug/L
B	214.2	4.25	1.99%	[50.00]	ug/L
Ba 233.527	920.2	12.86	1.40%	[5.00]	ug/L
Be 313.107	14127.7	101.16	0.72%	[2.00]	ug/L
Ca 315.887	1266.2	23.19	1.83%	[100.00]	ug/L
Cd 214.440	2245.4	21.61	0.96%	[5.00]	ug/L
Co 228.616	406.5	1.33	0.33%	[5.00]	ug/L
Cr 267.716	851.8	12.64	1.48%	[5.00]	ug/L
Cu 327.393	812.3	179.51	22.10%	[5.00]	ug/L
Fe 273.955	1477.8	8.84	0.60%	[50.00]	ug/L
K 766.490	2086.1	57.22	2.74%	[1000.00]	ug/L
Mg 285.213	1062.2	5.76	0.54%	[50]	ug/L
Mn 257.610	287.6	10.85	3.77%	[5.00]	ug/L
Mo 202.031	251.9	13.59	5.39%	[5.00]	ug/L
Na 589.592	13206.9	42.86	0.32%	[1000.00]	ug/L
Ni 231.604	418.5	22.79	5.45%	[5.00]	ug/L
P 213.617	189.6	9.35	4.93%	[25.00]	ug/L
Pb 220.353	55.7	8.70	15.62%	[3.00]	ug/L
Sb 206.836	35.5	1.88	5.30%	[5.00]	ug/L
Se 196.026	29.3	3.53	12.07%	[5.00]	ug/L
Sn 189.927	43.6	4.72	10.85%	[5.00]	ug/L
Sr 421.552	5427.7	89.16	1.64%	[5.00]	ug/L
Ti 337.279	211.7	3.41	1.61%	[5.00]	ug/L
Tl 190.801	38.2	6.13	16.06%	[5.00]	ug/L
V 292.402	1463.6	152.11	10.39%	[5.00]	ug/L
Zn 206.200	2327.6	19.81	0.85%	[20.00]	ug/L

Sequence No.: 3 Autosampler Location: 3
Sample ID: STD 2 121205EA I:PB O:EA Date Collected: 12/05/12 9:50:40 AM
Analyst: Data Type: Reprocessed on 12/06/12 10:12:16 AM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: STD 2 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	65369.6	460.16	0.70%	[500.0]	ug/L
Al 308.215	33816.5	230.58	0.68%	[20000.00]	ug/L
As 188.979	5632.1	39.14	0.70%	[1000.00]	ug/L
B	4114.9	53.17	1.29%	[1000.00]	ug/L
Ba 233.527	175255.0	233.84	0.13%	[1000.00]	ug/L
Be 313.107	6881288.1	29273.50	0.43%	[1000.00]	ug/L
Ca 315.887	622046.8	2722.65	0.44%	[50000]	ug/L
Cd 214.440	413333.8	609.20	0.15%	[1000.00]	ug/L
Co 228.616	74338.4	202.11	0.27%	[1000.00]	ug/L
Cr 267.716	156313.2	297.32	0.19%	[1000.00]	ug/L
Cu 327.393	124193.6	777.04	0.63%	[1000.00]	ug/L
Fe 273.955	560254.1	492.21	0.09%	[20000]	ug/L
K 766.490	42887.8	751.83	1.75%	[20000]	ug/L
Mg 285.213	978477.0	5196.56	0.53%	[50000]	ug/L
Mn 257.610	54405.8	348.65	0.64%	[1000.00]	ug/L
Mo 202.031	47511.6	286.11	0.60%	[1000.00]	ug/L
Na 589.592	319197.7	1655.17	0.52%	[25000]	ug/L
Ni 231.604	71278.1	135.04	0.19%	[1000.00]	ug/L
P 213.617	39518.8	183.32	0.46%	[5000]	ug/L
Pb 220.353	16866.2	138.20	0.82%	[1000.00]	ug/L
Sb 206.836	6471.8	32.35	0.50%	[1000.00]	ug/L
Se 196.026	5913.0	32.42	0.55%	[1000.00]	ug/L
Sn 189.927	8688.8	82.23	0.95%	[1000.00]	ug/L
Sr 421.552	964623.0	5236.09	0.54%	[1000.00]	ug/L
Ti 337.279	41884.1	352.93	0.84%	[1000.00]	ug/L
Tl 190.801	7192.2	62.92	0.87%	[1000.00]	ug/L
V 292.402	253339.6	267.27	0.11%	[1000.00]	ug/L
Zn 206.200	103791.7	235.98	0.23%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 12/05/12 9:53:21 AM
Data Type: Reprocessed on 12/06/12 10:12:20 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	129681.3	1651.97	1.27%	[1000.00]	ug/L
Al 308.215	66535.9	799.92	1.20%	[40000.00]	ug/L
As 188.979	11127.2	121.30	1.09%	[2000.00]	ug/L
B	8154.8	143.74	1.76%	[2000.00]	ug/L
Ba 233.527	343128.5	1419.76	0.41%	[2000.00]	ug/L
Be 313.107	13273827.5	76922.04	0.58%	[2000.00]	ug/L
Ca 315.887	1235512.8	7506.23	0.61%	[100000.0]	ug/L
Cd 214.440	797802.3	1866.48	0.23%	[2000.00]	ug/L
Co 228.616	145380.2	529.93	0.36%	[2000.00]	ug/L
Cr 267.716	304697.4	1583.52	0.52%	[2000.00]	ug/L
Cu 327.393	253995.0	3895.80	1.53%	[2000.00]	ug/L
Fe 273.955	1092857.1	3699.12	0.34%	[40000]	ug/L
K 766.490	86172.5	771.95	0.90%	[40000]	ug/L
Mg 285.213	1919777.1	9559.72	0.50%	[100000]	ug/L
Mn 257.610	106168.1	1365.95	1.29%	[2000.00]	ug/L
Mo 202.031	90898.6	269.92	0.30%	[2000.00]	ug/L
Na 589.592	636760.6	2427.69	0.38%	[50000]	ug/L
Ni 231.604	138279.3	363.32	0.26%	[2000.00]	ug/L
P 213.617	75803.0	366.75	0.48%	[10000]	ug/L
Pb 220.353	32563.3	286.03	0.88%	[2000.00]	ug/L
Sb 206.836	12885.5	125.47	0.97%	[2000.00]	ug/L
Se 196.026	11531.2	81.83	0.71%	[2000.00]	ug/L
Sn 189.927	17075.2	232.38	1.36%	[2000.00]	ug/L
Sr 421.552	1915206.2	8835.13	0.46%	[2000.00]	ug/L
Ti 337.279	82381.7	831.61	1.01%	[2000.00]	ug/L
Tl 190.801	14026.6	160.52	1.14%	[2000.00]	ug/L
V 292.402	498531.6	1618.75	0.32%	[2000.00]	ug/L
Zn 206.200	200413.4	863.50	0.43%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	129.9	0.00000	0.999995	
Al 308.215	3	Lin Thru 0	0.0	1.669	0.00000	0.999978	
As 188.979	3	Lin Thru 0	0.0	5.577	0.00000	0.999988	
B	3	Lin Thru 0	0.0	4.085	0.00000	0.999993	
Ba 233.527	3	Lin Thru 0	0.0	172.3	0.00000	0.999963	
Be 313.107	3	Lin Thru 0	0.0	6686	0.00000	0.999893	
Ca 315.887	3	Lin Thru 0	0.0	12.37	0.00000	0.999996	
Cd 214.440	3	Lin Thru 0	0.0	401.8	0.00000	0.999897	
Co 228.616	3	Lin Thru 0	0.0	73.02	0.00000	0.999959	
Cr 267.716	3	Lin Thru 0	0.0	153.1	0.00000	0.999946	
Cu 327.393	3	Lin Thru 0	0.0	126.4	0.00000	0.999960	
Fe 273.955	3	Lin Thru 0	0.0	27.46	0.00000	0.999949	
K 766.490	3	Lin Thru 0	0.0	2.152	0.00000	0.999998	
Mg 285.213	3	Lin Thru 0	0.0	19.27	0.00000	0.999970	
Mn 257.610	3	Lin Thru 0	0.0	53.35	0.00000	0.999951	
Mo 202.031	3	Lin Thru 0	0.0	45.86	0.00000	0.999838	
Na 589.592	3	Lin Thru 0	0.0	12.74	0.00000	0.999999	
Ni 231.604	3	Lin Thru 0	0.0	69.57	0.00000	0.999924	
P 213.617	3	Lin Thru 0	0.0	7.645	0.00000	0.999857	
Pb 220.353	3	Lin Thru 0	0.0	16.40	0.00000	0.999898	
Sb 206.836	3	Lin Thru 0	0.0	6.449	0.00000	0.999998	
Se 196.026	3	Lin Thru 0	0.0	5.795	0.00000	0.999948	
Sn 189.927	3	Lin Thru 0	0.0	8.568	0.00000	0.999975	
Sr 421.552	3	Lin Thru 0	0.0	959.0	0.00000	0.999996	
Ti 337.279	3	Lin Thru 0	0.0	41.33	0.00000	0.999977	
Tl 190.801	3	Lin Thru 0	0.0	7.049	0.00000	0.999948	

V 292.402	3	Lin Thru 0	0.0	250.1	0.00000	0.999979
Zn 206.200	3	Lin Thru 0	0.0	100.9	0.00000	0.999898

Sequence No.: 5
Sample ID: ICV 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 12/05/12 9:57:09 AM
Data Type: Reprocessed on 12/06/12 10:12:25 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	66064.1	508.6	ug/L	12.37	508.6	ug/L	12.37	2.43%
QC value within limits for Ag 338.289 Recovery = 101.72%								
Al 308.215	41975.7	25160	ug/L	100.2	25160	ug/L	100.2	0.40%
QC value within limits for Al 308.215 Recovery = 100.65%								
As 188.979	5501.0	986.3	ug/L	9.71	986.3	ug/L	9.71	0.98%
QC value within limits for As 188.979 Recovery = 98.63%								
B	4050.1	1070	ug/L	10.6	1070	ug/L	10.6	0.99%
QC value within limits for B Recovery = 107.03%								
Ba 233.527	171624.2	982.4	ug/L	9.83	982.4	ug/L	9.83	1.00%
QC value within limits for Ba 233.527 Recovery = 98.24%								
Be 313.107	6803937.7	1018	ug/L	11.1	1018	ug/L	11.1	1.09%
QC value within limits for Be 313.107 Recovery = 101.77%								
Ca 315.887	310154.9	25060	ug/L	104.0	25060	ug/L	104.0	0.42%
QC value within limits for Ca 315.887 Recovery = 100.23%								
Cd 214.440	411058.9	1022	ug/L	11.3	1022	ug/L	11.3	1.11%
QC value within limits for Cd 214.440 Recovery = 102.25%								
Co 228.616	74490.1	1019	ug/L	10.3	1019	ug/L	10.3	1.01%
QC value within limits for Co 228.616 Recovery = 101.95%								
Cr 267.716	156889.3	1026	ug/L	12.5	1026	ug/L	12.5	1.22%
QC value within limits for Cr 267.716 Recovery = 102.56%								
Cu 327.393	124079.2	981.4	ug/L	7.21	981.4	ug/L	7.21	0.73%
QC value within limits for Cu 327.393 Recovery = 98.14%								
Fe 273.955	694637.1	25210	ug/L	268.9	25210	ug/L	268.9	1.07%
QC value within limits for Fe 273.955 Recovery = 100.85%								
K 766.490	52544.1	24400	ug/L	158.1	24400	ug/L	158.1	0.65%
QC value within limits for K 766.490 Recovery = 97.61%								
Mg 285.213	490192.7	25460	ug/L	127.4	25460	ug/L	127.4	0.50%
QC value within limits for Mg 285.213 Recovery = 101.85%								
Mn 257.610	55533.6	1041	ug/L	5.1	1041	ug/L	5.1	0.49%
QC value within limits for Mn 257.610 Recovery = 104.13%								
Mo 202.031	47918.6	1047	ug/L	7.6	1047	ug/L	7.6	0.73%
QC value within limits for Mo 202.031 Recovery = 104.75%								
Na 589.592	310660.6	24360	ug/L	121.7	24360	ug/L	121.7	0.50%
QC value within limits for Na 589.592 Recovery = 97.44%								
Ni 231.604	72797.9	1044	ug/L	11.2	1044	ug/L	11.2	1.08%
QC value within limits for Ni 231.604 Recovery = 104.44%								
P 213.617	37934.5	4962	ug/L	36.0	4962	ug/L	36.0	0.73%
QC value within limits for P 213.617 Recovery = 99.24%								
Pb 220.353	17185.4	1048	ug/L	5.3	1048	ug/L	5.3	0.50%
QC value within limits for Pb 220.353 Recovery = 104.80%								
Sb 206.836	6762.5	1049	ug/L	7.5	1049	ug/L	7.5	0.72%
QC value within limits for Sb 206.836 Recovery = 104.87%								
Se 196.026	5894.9	1028	ug/L	12.0	1028	ug/L	12.0	1.17%
QC value within limits for Se 196.026 Recovery = 102.82%								
Sn 189.927	4515.2	527.0	ug/L	3.77	527.0	ug/L	3.77	0.71%
QC value within limits for Sn 189.927 Recovery = 105.40%								
Sr 421.552	939727.4	979.6	ug/L	4.52	979.6	ug/L	4.52	0.46%
QC value within limits for Sr 421.552 Recovery = 97.96%								
Ti 337.279	38869.5	940.0	ug/L	7.92	940.0	ug/L	7.92	0.84%
QC value within limits for Ti 337.279 Recovery = 94.00%								
Tl 190.801	7143.7	1013	ug/L	10.7	1013	ug/L	10.7	1.06%
QC value within limits for Tl 190.801 Recovery = 101.34%								
V 292.402	252113.7	1026	ug/L	10.8	1026	ug/L	10.8	1.05%
QC value within limits for V 292.402 Recovery = 102.57%								
Zn 206.200	105528.2	1055	ug/L	9.7	1055	ug/L	9.7	0.92%
QC value within limits for Zn 206.200 Recovery = 105.51%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 10:00:53 AM
Data Type: Reprocessed on 12/06/12 10:12:26 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-31.2	-0.240	ug/L	0.1304	-0.240	ug/L	0.1304	54.33%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	16.5	9.866	ug/L	5.1303	9.866	ug/L	5.1303	52.00%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	1.5	0.266	ug/L	0.6967	0.266	ug/L	0.6967	261.98%
QC value within limits for As 188.979 Recovery = Not calculated								
B	50.2	12.29	ug/L	1.335	12.29	ug/L	1.335	10.86%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-0.6	-0.004	ug/L	0.0603	-0.004	ug/L	0.0603	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	30.5	0.005	ug/L	0.0226	0.005	ug/L	0.0226	495.04%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	20.2	1.630	ug/L	1.6390	1.630	ug/L	1.6390	100.55%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	42.7	0.107	ug/L	0.0600	0.107	ug/L	0.0600	56.22%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	1.3	0.019	ug/L	0.0989	0.019	ug/L	0.0989	525.80%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-17.0	-0.111	ug/L	0.0676	-0.111	ug/L	0.0676	60.96%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	55.6	0.440	ug/L	0.5493	0.440	ug/L	0.5493	124.98%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	21.7	0.784	ug/L	0.4356	0.784	ug/L	0.4356	55.53%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	138.8	64.47	ug/L	104.828	64.47	ug/L	104.828	162.59%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	35.9	1.861	ug/L	0.4357	1.861	ug/L	0.4357	23.41%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-2.8	-0.052	ug/L	0.1176	-0.052	ug/L	0.1176	225.89%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	25.4	0.554	ug/L	0.0857	0.554	ug/L	0.0857	15.47%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	51.8	4.037	ug/L	8.4698	4.037	ug/L	8.4698	209.80%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-24.9	-0.359	ug/L	0.0976	-0.359	ug/L	0.0976	27.20%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-0.5	-0.061	ug/L	0.9811	-0.061	ug/L	0.9811	>999.9%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	13.3	0.811	ug/L	0.7766	0.811	ug/L	0.7766	95.75%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	10.5	1.633	ug/L	0.8130	1.633	ug/L	0.8130	49.80%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-2.2	-0.374	ug/L	3.5161	-0.374	ug/L	3.5161	939.05%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	22.3	2.597	ug/L	0.3017	2.597	ug/L	0.3017	11.61%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	152.8	0.159	ug/L	0.2448	0.159	ug/L	0.2448	153.54%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	14.0	0.338	ug/L	0.2639	0.338	ug/L	0.2639	78.07%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	5.1	0.727	ug/L	0.4798	0.727	ug/L	0.4798	66.02%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	13.1	0.059	ug/L	0.4099	0.059	ug/L	0.4099	697.59%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-23.5	-0.232	ug/L	0.2315	-0.232	ug/L	0.2315	99.64%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 12/05/12 10:13:35 AM
Data Type: Reprocessed on 12/06/12 10:12:28 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	15.4	0.119	ug/L	0.4831	0.119	ug/L	0.4831	407.31%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	318154.2	190700	ug/L	3080.5	190700	ug/L	3080.5	1.62%
QC value within limits for Al 308.215 Recovery = 95.33%								
As 188.979	3.4	0.617	ug/L	0.3376	0.617	ug/L	0.3376	54.75%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2096.2	50.21	ug/L	9.819	50.21	ug/L	9.819	19.55%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	17554.0	0.115	ug/L	3.3435	0.115	ug/L	3.3435	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-860.8	-0.129	ug/L	0.0149	-0.129	ug/L	0.0149	11.61%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2383265.7	192600	ug/L	3182.5	192600	ug/L	3182.5	1.65%
QC value within limits for Ca 315.887 Recovery = 96.30%								
Cd 214.440	3633.5	-0.101	ug/L	0.1738	-0.101	ug/L	0.1738	171.65%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	296.5	-0.018	ug/L	0.4547	-0.018	ug/L	0.4547	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-60.5	0.160	ug/L	0.2606	0.160	ug/L	0.2606	163.00%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-186.0	-1.471	ug/L	0.4392	-1.471	ug/L	0.4392	29.86%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4891063.1	178100	ug/L	1967.6	178100	ug/L	1967.6	1.10%
QC value within limits for Fe 273.955 Recovery = 89.05%								
K 766.490	159.9	-39.15	ug/L	39.600	-39.15	ug/L	39.600	101.14%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3601480.7	187100	ug/L	2883.4	187100	ug/L	2883.4	1.54%
QC value within limits for Mg 285.213 Recovery = 93.54%								
Mn 257.610	-123.0	-1.321	ug/L	0.2889	-1.321	ug/L	0.2889	21.87%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-664.1	-0.990	ug/L	0.2686	-0.990	ug/L	0.2686	27.13%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	22.9	-42.75	ug/L	0.760	-42.75	ug/L	0.760	1.78%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	12.7	-0.015	ug/L	0.5502	-0.015	ug/L	0.5502	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-24.2	-3.170	ug/L	0.8768	-3.170	ug/L	0.8768	27.66%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	17.7	1.078	ug/L	0.9012	1.078	ug/L	0.9012	83.57%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	1.2	0.190	ug/L	0.7490	0.190	ug/L	0.7490	393.21%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-489.0	0.065	ug/L	3.5825	0.065	ug/L	3.5825	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-3.0	-0.354	ug/L	0.4843	-0.354	ug/L	0.4843	136.92%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2310.6	0.253	ug/L	0.0181	0.253	ug/L	0.0181	7.16%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	85.8	-1.278	ug/L	0.4213	-1.278	ug/L	0.4213	32.96%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-4.4	-0.618	ug/L	1.0503	-0.618	ug/L	1.0503	169.87%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	10699.5	-0.023	ug/L	0.7744	-0.023	ug/L	0.7744	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	774.7	-1.316	ug/L	0.5647	-1.316	ug/L	0.5647	42.90%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 12/05/12 10:18:14 AM
Data Type: Reprocessed on 12/06/12 10:12:29 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	129665.2	998.2	ug/L	10.14	998.2	ug/L	10.14	1.02%
QC value within limits for Ag 338.289 Recovery = 99.82%								
Al 308.215	317865.2	190500	ug/L	1164.2	190500	ug/L	1164.2	0.61%
QC value within limits for Al 308.215 Recovery = 95.24%								
As 188.979	2627.4	471.1	ug/L	0.70	471.1	ug/L	0.70	0.15%
QC value within limits for As 188.979 Recovery = 94.22%								
B	-2103.2	41.97	ug/L	12.197	41.97	ug/L	12.197	29.06%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	96267.0	458.3	ug/L	5.00	458.3	ug/L	5.00	1.09%
QC value within limits for Ba 233.527 Recovery = 91.67%								
Be 313.107	3095321.7	463.0	ug/L	2.90	463.0	ug/L	2.90	0.63%
QC value within limits for Be 313.107 Recovery = 92.59%								
Ca 315.887	2380835.7	192400	ug/L	1310.0	192400	ug/L	1310.0	0.68%
QC value within limits for Ca 315.887 Recovery = 96.20%								
Cd 214.440	367860.7	906.7	ug/L	8.39	906.7	ug/L	8.39	0.93%
QC value within limits for Cd 214.440 Recovery = 90.67%								
Co 228.616	33206.2	451.6	ug/L	5.28	451.6	ug/L	5.28	1.17%
QC value within limits for Co 228.616 Recovery = 90.32%								
Cr 267.716	70615.2	462.2	ug/L	2.95	462.2	ug/L	2.95	0.64%
QC value within limits for Cr 267.716 Recovery = 92.43%								
Cu 327.393	58801.6	465.1	ug/L	6.08	465.1	ug/L	6.08	1.31%
QC value within limits for Cu 327.393 Recovery = 93.01%								
Fe 273.955	4841411.2	176300	ug/L	893.8	176300	ug/L	893.8	0.51%
QC value within limits for Fe 273.955 Recovery = 88.13%								
K 766.490	245.2	0.230	ug/L	67.2082	0.230	ug/L	67.2082	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3604298.1	187200	ug/L	1139.2	187200	ug/L	1139.2	0.61%
QC value within limits for Mg 285.213 Recovery = 93.61%								
Mn 257.610	25165.1	472.7	ug/L	4.75	472.7	ug/L	4.75	1.01%
QC value within limits for Mn 257.610 Recovery = 94.53%								
Mo 202.031	21210.4	476.2	ug/L	1.41	476.2	ug/L	1.41	0.30%
QC value within limits for Mo 202.031 Recovery = 95.24%								
Na 589.592	238.4	-27.47	ug/L	16.403	-27.47	ug/L	16.403	59.71%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	63667.6	914.1	ug/L	8.85	914.1	ug/L	8.85	0.97%
QC value within limits for Ni 231.604 Recovery = 91.41%								
P 213.617	-4.2	-0.555	ug/L	2.0106	-0.555	ug/L	2.0106	362.13%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	15434.3	941.2	ug/L	1.55	941.2	ug/L	1.55	0.16%
QC value within limits for Pb 220.353 Recovery = 94.12%								
Sb 206.836	3086.6	478.6	ug/L	1.56	478.6	ug/L	1.56	0.33%
QC value within limits for Sb 206.836 Recovery = 95.73%								
Se 196.026	2269.0	474.9	ug/L	4.84	474.9	ug/L	4.84	1.02%
QC value within limits for Se 196.026 Recovery = 94.98%								
Sn 189.927	-6.2	-0.718	ug/L	1.2353	-0.718	ug/L	1.2353	171.94%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2107.0	0.053	ug/L	0.1517	0.053	ug/L	0.1517	285.31%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	88.5	-1.163	ug/L	0.5253	-1.163	ug/L	0.5253	45.19%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3237.1	459.2	ug/L	1.59	459.2	ug/L	1.59	0.35%
QC value within limits for Tl 190.801 Recovery = 91.85%								
V 292.402	128337.1	481.9	ug/L	4.10	481.9	ug/L	4.10	0.85%
QC value within limits for V 292.402 Recovery = 96.38%								
Zn 206.200	92651.5	913.8	ug/L	9.56	913.8	ug/L	9.56	1.05%
QC value within limits for Zn 206.200 Recovery = 91.38%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 10:22:52 AM
Data Type: Reprocessed on 12/06/12 10:12:30 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	64611.6	497.4	ug/L	6.13	497.4	ug/L	6.13	1.23%
QC value within limits for Ag 338.289 Recovery = 99.48%								
Al 308.215	34352.1	20590	ug/L	165.6	20590	ug/L	165.6	0.80%
QC value within limits for Al 308.215 Recovery = 102.97%								
As 188.979	5775.3	1035	ug/L	8.9	1035	ug/L	8.9	0.86%
QC value within limits for As 188.979 Recovery = 103.55%								
B	4192.0	1089	ug/L	11.7	1089	ug/L	11.7	1.07%
QC value within limits for B Recovery = 108.89%								
Ba 233.527	177032.9	1016	ug/L	9.8	1016	ug/L	9.8	0.97%
QC value within limits for Ba 233.527 Recovery = 101.64%								
Be 313.107	6967074.4	1042	ug/L	7.3	1042	ug/L	7.3	0.70%
QC value within limits for Be 313.107 Recovery = 104.21%								
Ca 315.887	635336.1	51340	ug/L	251.0	51340	ug/L	251.0	0.49%
QC value within limits for Ca 315.887 Recovery = 102.68%								
Cd 214.440	421274.0	1048	ug/L	10.2	1048	ug/L	10.2	0.98%
QC value within limits for Cd 214.440 Recovery = 104.81%								
Co 228.616	75402.9	1032	ug/L	10.4	1032	ug/L	10.4	1.01%
QC value within limits for Co 228.616 Recovery = 103.18%								
Cr 267.716	157760.8	1031	ug/L	10.7	1031	ug/L	10.7	1.04%
QC value within limits for Cr 267.716 Recovery = 103.10%								
Cu 327.393	124760.9	986.7	ug/L	16.26	986.7	ug/L	16.26	1.65%
QC value within limits for Cu 327.393 Recovery = 98.67%								
Fe 273.955	567043.1	20560	ug/L	202.1	20560	ug/L	202.1	0.98%
QC value within limits for Fe 273.955 Recovery = 102.82%								
K 766.490	43613.2	20250	ug/L	243.1	20250	ug/L	243.1	1.20%
QC value within limits for K 766.490 Recovery = 101.23%								
Mg 285.213	993368.3	51570	ug/L	224.0	51570	ug/L	224.0	0.43%
QC value within limits for Mg 285.213 Recovery = 103.13%								
Mn 257.610	55659.6	1042	ug/L	11.8	1042	ug/L	11.8	1.14%
QC value within limits for Mn 257.610 Recovery = 104.22%								
Mo 202.031	48449.7	1059	ug/L	10.1	1059	ug/L	10.1	0.96%
QC value within limits for Mo 202.031 Recovery = 105.86%								
Na 589.592	321804.6	25230	ug/L	105.5	25230	ug/L	105.5	0.42%
QC value within limits for Na 589.592 Recovery = 100.93%								
Ni 231.604	72491.6	1040	ug/L	11.4	1040	ug/L	11.4	1.10%
QC value within limits for Ni 231.604 Recovery = 103.99%								
P 213.617	40775.1	5334	ug/L	31.0	5334	ug/L	31.0	0.58%
QC value within limits for P 213.617 Recovery = 106.67%								
Pb 220.353	17427.6	1063	ug/L	7.0	1063	ug/L	7.0	0.66%
QC value within limits for Pb 220.353 Recovery = 106.28%								
Sb 206.836	6618.8	1026	ug/L	9.1	1026	ug/L	9.1	0.89%
QC value within limits for Sb 206.836 Recovery = 102.64%								
Se 196.026	6092.8	1059	ug/L	2.8	1059	ug/L	2.8	0.26%
QC value within limits for Se 196.026 Recovery = 105.92%								
Sn 189.927	8939.0	1043	ug/L	7.2	1043	ug/L	7.2	0.69%
QC value within limits for Sn 189.927 Recovery = 104.33%								
Sr 421.552	967145.0	1008	ug/L	6.0	1008	ug/L	6.0	0.60%
QC value within limits for Sr 421.552 Recovery = 100.81%								
Ti 337.279	42402.1	1025	ug/L	10.1	1025	ug/L	10.1	0.99%
QC value within limits for Ti 337.279 Recovery = 102.51%								
Tl 190.801	7407.0	1051	ug/L	14.2	1051	ug/L	14.2	1.35%
QC value within limits for Tl 190.801 Recovery = 105.08%								
V 292.402	254597.0	1037	ug/L	9.4	1037	ug/L	9.4	0.91%
QC value within limits for V 292.402 Recovery = 103.69%								
Zn 206.200	106409.4	1064	ug/L	11.6	1064	ug/L	11.6	1.09%
QC value within limits for Zn 206.200 Recovery = 106.43%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 10:26:35 AM
Data Type: Reprocessed on 12/06/12 10:12:31 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	38.7	0.298	ug/L	1.5262	0.298	ug/L	1.5262	511.98%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	32.9	19.70	ug/L	1.099	19.70	ug/L	1.099	5.58%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	3.7	0.660	ug/L	1.3233	0.660	ug/L	1.3233	200.65%
QC value within limits for As 188.979 Recovery = Not calculated								
B	34.7	8.511	ug/L	1.3629	8.511	ug/L	1.3629	16.01%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	23.9	0.137	ug/L	0.0349	0.137	ug/L	0.0349	25.47%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-182.0	-0.027	ug/L	0.0246	-0.027	ug/L	0.0246	90.27%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	83.6	6.758	ug/L	1.3570	6.758	ug/L	1.3570	20.08%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	41.1	0.103	ug/L	0.0224	0.103	ug/L	0.0224	21.84%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	10.6	0.148	ug/L	0.3560	0.148	ug/L	0.3560	240.88%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-2.4	-0.015	ug/L	0.0728	-0.015	ug/L	0.0728	474.88%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	19.3	0.152	ug/L	1.5648	0.152	ug/L	1.5648	>999.9%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	66.4	2.415	ug/L	0.5099	2.415	ug/L	0.5099	21.12%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-31.3	-14.53	ug/L	63.265	-14.53	ug/L	63.265	435.50%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	64.6	3.355	ug/L	1.0394	3.355	ug/L	1.0394	30.98%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	1.2	0.023	ug/L	0.1426	0.023	ug/L	0.1426	615.99%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	23.6	0.514	ug/L	0.1563	0.514	ug/L	0.1563	30.39%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-11.6	-0.911	ug/L	6.1586	-0.911	ug/L	6.1586	676.33%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-26.2	-0.377	ug/L	0.1057	-0.377	ug/L	0.1057	28.05%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	1.3	0.172	ug/L	0.5765	0.172	ug/L	0.5765	335.71%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	23.6	1.440	ug/L	0.8979	1.440	ug/L	0.8979	62.37%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	8.3	1.292	ug/L	0.6071	1.292	ug/L	0.6071	47.00%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	0.8	0.146	ug/L	2.6049	0.146	ug/L	2.6049	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	15.4	1.802	ug/L	1.1195	1.802	ug/L	1.1195	62.12%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	194.8	0.203	ug/L	0.1564	0.203	ug/L	0.1564	77.01%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-13.4	-0.325	ug/L	0.0572	-0.325	ug/L	0.0572	17.61%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2.2	0.306	ug/L	0.5000	0.306	ug/L	0.5000	163.37%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	4.5	0.025	ug/L	0.4778	0.025	ug/L	0.4778	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-65.4	-0.648	ug/L	0.1116	-0.648	ug/L	0.1116	17.22%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 57
Sample ID: CCV1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 2:03:31 PM
Data Type: Reprocessed on 12/06/12 10:13:18 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	63646.9	490.0	ug/L	3.70	490.0	ug/L	3.70	0.75%
QC value within limits for Ag 338.289 Recovery = 98.00%								
Al 308.215	34860.9	20900	ug/L	270.1	20900	ug/L	270.1	1.29%
QC value within limits for Al 308.215 Recovery = 104.49%								
As 188.979	5626.9	1009	ug/L	5.0	1009	ug/L	5.0	0.49%
QC value within limits for As 188.979 Recovery = 100.89%								
B	4154.7	1080	ug/L	16.5	1080	ug/L	16.5	1.53%
QC value within limits for B Recovery = 107.96%								
Ba 233.527	177035.8	1016	ug/L	6.6	1016	ug/L	6.6	0.65%
QC value within limits for Ba 233.527 Recovery = 101.64%								
Be 313.107	6885335.8	1030	ug/L	8.3	1030	ug/L	8.3	0.80%
QC value within limits for Be 313.107 Recovery = 102.98%								
Ca 315.887	654581.3	52900	ug/L	618.3	52900	ug/L	618.3	1.17%
QC value within limits for Ca 315.887 Recovery = 105.79%								
Cd 214.440	417884.1	1040	ug/L	6.8	1040	ug/L	6.8	0.65%
QC value within limits for Cd 214.440 Recovery = 103.97%								
Co 228.616	75298.7	1030	ug/L	6.4	1030	ug/L	6.4	0.62%
QC value within limits for Co 228.616 Recovery = 103.03%								
Cr 267.716	157332.4	1028	ug/L	5.8	1028	ug/L	5.8	0.57%
QC value within limits for Cr 267.716 Recovery = 102.82%								
Cu 327.393	123204.9	974.4	ug/L	10.73	974.4	ug/L	10.73	1.10%
QC value within limits for Cu 327.393 Recovery = 97.44%								
Fe 273.955	566468.5	20540	ug/L	130.3	20540	ug/L	130.3	0.63%
QC value within limits for Fe 273.955 Recovery = 102.72%								
K 766.490	44322.7	20570	ug/L	304.8	20570	ug/L	304.8	1.48%
QC value within limits for K 766.490 Recovery = 102.87%								
Mg 285.213	1018504.8	52870	ug/L	471.7	52870	ug/L	471.7	0.89%
QC value within limits for Mg 285.213 Recovery = 105.74%								
Mn 257.610	56248.8	1053	ug/L	17.7	1053	ug/L	17.7	1.68%
QC value within limits for Mn 257.610 Recovery = 105.32%								
Mo 202.031	47668.4	1042	ug/L	6.5	1042	ug/L	6.5	0.63%
QC value within limits for Mo 202.031 Recovery = 104.15%								
Na 589.592	324715.9	25460	ug/L	247.0	25460	ug/L	247.0	0.97%
QC value within limits for Na 589.592 Recovery = 101.85%								
Ni 231.604	71878.7	1031	ug/L	6.7	1031	ug/L	6.7	0.65%
QC value within limits for Ni 231.604 Recovery = 103.11%								
P 213.617	39590.0	5179	ug/L	40.2	5179	ug/L	40.2	0.78%
QC value within limits for P 213.617 Recovery = 103.57%								
Pb 220.353	17010.2	1037	ug/L	12.6	1037	ug/L	12.6	1.21%
QC value within limits for Pb 220.353 Recovery = 103.73%								
Sb 206.836	6539.4	1014	ug/L	15.1	1014	ug/L	15.1	1.49%
QC value within limits for Sb 206.836 Recovery = 101.41%								
Se 196.026	5932.3	1031	ug/L	9.2	1031	ug/L	9.2	0.89%
QC value within limits for Se 196.026 Recovery = 103.14%								
Sn 189.927	8962.3	1046	ug/L	16.0	1046	ug/L	16.0	1.52%
QC value within limits for Sn 189.927 Recovery = 104.60%								
Sr 421.552	990521.5	1032	ug/L	9.9	1032	ug/L	9.9	0.96%
QC value within limits for Sr 421.552 Recovery = 103.25%								
Ti 337.279	43369.2	1049	ug/L	15.6	1049	ug/L	15.6	1.49%
QC value within limits for Ti 337.279 Recovery = 104.85%								
Tl 190.801	7173.6	1018	ug/L	9.0	1018	ug/L	9.0	0.88%
QC value within limits for Tl 190.801 Recovery = 101.77%								
V 292.402	255198.4	1039	ug/L	6.4	1039	ug/L	6.4	0.62%
QC value within limits for V 292.402 Recovery = 103.90%								
Zn 206.200	105436.0	1055	ug/L	7.7	1055	ug/L	7.7	0.73%
QC value within limits for Zn 206.200 Recovery = 105.46%								

All analyte(s) passed QC.

Sequence No.: 58
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 2:07:14 PM
Data Type: Reprocessed on 12/06/12 10:13:19 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	39.4	0.304	ug/L	0.3595	0.304	ug/L	0.3595	118.37%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	13.4	8.026	ug/L	0.5891	8.026	ug/L	0.5891	7.34%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.2	1.288	ug/L	0.1786	1.288	ug/L	0.1786	13.86%
QC value within limits for As 188.979 Recovery = Not calculated								
B	25.6	6.269	ug/L	4.4722	6.269	ug/L	4.4722	71.33%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	8.5	0.048	ug/L	0.0932	0.048	ug/L	0.0932	195.94%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-396.7	-0.059	ug/L	0.0163	-0.059	ug/L	0.0163	27.55%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	64.0	5.168	ug/L	1.4265	5.168	ug/L	1.4265	27.60%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	4.5	0.012	ug/L	0.0260	0.012	ug/L	0.0260	222.63%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	15.2	0.211	ug/L	0.1224	0.211	ug/L	0.1224	58.03%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-20.2	-0.132	ug/L	0.1634	-0.132	ug/L	0.1634	123.79%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	163.9	1.296	ug/L	1.4512	1.296	ug/L	1.4512	111.95%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	50.3	1.838	ug/L	0.9338	1.838	ug/L	0.9338	50.81%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	56.8	26.36	ug/L	57.722	26.36	ug/L	57.722	218.95%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	36.9	1.914	ug/L	0.2550	1.914	ug/L	0.2550	13.32%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-1.1	-0.020	ug/L	0.1791	-0.020	ug/L	0.1791	893.93%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	33.6	0.733	ug/L	0.2712	0.733	ug/L	0.2712	37.01%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-145.3	-11.42	ug/L	9.986	-11.42	ug/L	9.986	87.46%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-27.2	-0.392	ug/L	0.1401	-0.392	ug/L	0.1401	35.71%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-8.2	-1.071	ug/L	1.6421	-1.071	ug/L	1.6421	153.29%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	12.4	0.754	ug/L	0.9358	0.754	ug/L	0.9358	124.05%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	4.3	0.660	ug/L	0.6797	0.660	ug/L	0.6797	102.98%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-0.1	-0.011	ug/L	0.9415	-0.011	ug/L	0.9415	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	5.5	0.641	ug/L	0.7443	0.641	ug/L	0.7443	116.17%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	380.2	0.396	ug/L	0.0785	0.396	ug/L	0.0785	19.79%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-11.3	-0.274	ug/L	0.4417	-0.274	ug/L	0.4417	160.94%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.9	1.256	ug/L	0.5162	1.256	ug/L	0.5162	41.09%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-22.9	-0.083	ug/L	0.8423	-0.083	ug/L	0.8423	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-109.2	-1.083	ug/L	0.0881	-1.083	ug/L	0.0881	8.14%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 68
Sample ID: CCV2 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 12/05/12 3:23:33 PM
Data Type: Reprocessed on 12/06/12 10:13:29 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	49907.2	384.2	ug/L	3.08	384.2	ug/L	3.08	0.80%
QC value within limits for Ag 338.289 Recovery = 102.46%								
Al 308.215	27614.1	16550	ug/L	109.9	16550	ug/L	109.9	0.66%
QC value within limits for Al 308.215 Recovery = 110.36%								
As 188.979	4403.6	789.6	ug/L	2.89	789.6	ug/L	2.89	0.37%
QC value within limits for As 188.979 Recovery = 105.27%								
B	3241.6	841.4	ug/L	8.14	841.4	ug/L	8.14	0.97%
QC value greater than the upper limit for B Recovery = 112.19%								
Ba 233.527	136166.3	781.8	ug/L	4.40	781.8	ug/L	4.40	0.56%
QC value within limits for Ba 233.527 Recovery = 104.24%								
Be 313.107	5355865.3	801.1	ug/L	1.80	801.1	ug/L	1.80	0.22%
QC value within limits for Be 313.107 Recovery = 106.81%								
Ca 315.887	525429.4	42460	ug/L	482.2	42460	ug/L	482.2	1.14%
QC value greater than the upper limit for Ca 315.887 Recovery = 113.23%								
Cd 214.440	323283.8	804.3	ug/L	5.75	804.3	ug/L	5.75	0.72%
QC value within limits for Cd 214.440 Recovery = 107.24%								
Co 228.616	58251.2	796.9	ug/L	6.49	796.9	ug/L	6.49	0.81%
QC value within limits for Co 228.616 Recovery = 106.25%								
Cr 267.716	120502.7	787.4	ug/L	5.05	787.4	ug/L	5.05	0.64%
QC value within limits for Cr 267.716 Recovery = 104.99%								
Cu 327.393	96635.1	764.3	ug/L	5.26	764.3	ug/L	5.26	0.69%
QC value within limits for Cu 327.393 Recovery = 101.91%								
Fe 273.955	435527.5	15800	ug/L	101.7	15800	ug/L	101.7	0.64%
QC value within limits for Fe 273.955 Recovery = 105.30%								
K 766.490	34725.1	16120	ug/L	223.3	16120	ug/L	223.3	1.39%
QC value within limits for K 766.490 Recovery = 107.46%								
Mg 285.213	810383.6	42070	ug/L	399.5	42070	ug/L	399.5	0.95%
QC value greater than the upper limit for Mg 285.213 Recovery = 112.18%								
Mn 257.610	44266.7	828.8	ug/L	3.46	828.8	ug/L	3.46	0.42%
QC value greater than the upper limit for Mn 257.610 Recovery = 110.50%								
Mo 202.031	35951.2	785.5	ug/L	4.03	785.5	ug/L	4.03	0.51%
QC value within limits for Mo 202.031 Recovery = 104.74%								
Na 589.592	256184.3	20090	ug/L	210.1	20090	ug/L	210.1	1.05%
QC value within limits for Na 589.592 Recovery = 107.14%								
Ni 231.604	55559.4	797.0	ug/L	4.74	797.0	ug/L	4.74	0.59%
QC value within limits for Ni 231.604 Recovery = 106.27%								
P 213.617	30641.4	4008	ug/L	48.1	4008	ug/L	48.1	1.20%
QC value within limits for P 213.617 Recovery = 106.88%								
Pb 220.353	13198.5	804.9	ug/L	1.58	804.9	ug/L	1.58	0.20%
QC value within limits for Pb 220.353 Recovery = 107.31%								
Sb 206.836	5197.2	805.9	ug/L	1.07	805.9	ug/L	1.07	0.13%
QC value within limits for Sb 206.836 Recovery = 107.46%								
Se 196.026	4628.2	804.4	ug/L	1.79	804.4	ug/L	1.79	0.22%
QC value within limits for Se 196.026 Recovery = 107.26%								
Sn 189.927	6734.6	786.0	ug/L	4.24	786.0	ug/L	4.24	0.54%
QC value within limits for Sn 189.927 Recovery = 104.80%								
Sr 421.552	791082.4	824.6	ug/L	6.75	824.6	ug/L	6.75	0.82%
QC value within limits for Sr 421.552 Recovery = 109.95%								
Ti 337.279	35144.1	849.7	ug/L	6.17	849.7	ug/L	6.17	0.73%
QC value greater than the upper limit for Ti 337.279 Recovery = 113.29%								
Tl 190.801	5664.6	803.6	ug/L	0.91	803.6	ug/L	0.91	0.11%
QC value within limits for Tl 190.801 Recovery = 107.15%								
V 292.402	195315.9	795.0	ug/L	4.80	795.0	ug/L	4.80	0.60%
QC value within limits for V 292.402 Recovery = 106.00%								
Zn 206.200	81083.5	811.0	ug/L	5.13	811.0	ug/L	5.13	0.63%
QC value within limits for Zn 206.200 Recovery = 108.14%								

QC Failed. Continue with analysis.

Sequence No.: 69
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 12/05/12 3:29:31 PM
Data Type: Reprocessed on 12/06/12 10:13:30 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	62.2	0.479	ug/L	1.0880	0.479	ug/L	1.0880	227.23%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	27.9	16.70	ug/L	10.779	16.70	ug/L	10.779	64.56%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.1	0.742	ug/L	0.7184	0.742	ug/L	0.7184	96.81%
QC value within limits for As 188.979 Recovery = Not calculated								
B	49.9	12.20	ug/L	2.788	12.20	ug/L	2.788	22.85%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-5.8	-0.032	ug/L	0.0387	-0.032	ug/L	0.0387	119.24%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	63.0	0.009	ug/L	0.0140	0.009	ug/L	0.0140	148.20%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	1133.4	91.61	ug/L	10.182	91.61	ug/L	10.182	11.12%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	27.1	0.068	ug/L	0.0045	0.068	ug/L	0.0045	6.61%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-22.8	-0.310	ug/L	0.0801	-0.310	ug/L	0.0801	25.79%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-64.6	-0.422	ug/L	0.1703	-0.422	ug/L	0.1703	40.37%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	173.2	1.370	ug/L	0.6923	1.370	ug/L	0.6923	50.53%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	-62.3	-2.296	ug/L	0.5395	-2.296	ug/L	0.5395	23.50%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	122.4	56.85	ug/L	69.716	56.85	ug/L	69.716	122.62%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	76.2	3.950	ug/L	0.4022	3.950	ug/L	0.4022	10.18%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	2.0	0.037	ug/L	0.0844	0.037	ug/L	0.0844	228.85%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	25.2	0.549	ug/L	0.0433	0.549	ug/L	0.0433	7.89%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	453.5	35.56	ug/L	7.229	35.56	ug/L	7.229	20.33%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	7.3	0.105	ug/L	0.1912	0.105	ug/L	0.1912	182.73%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	241.9	31.65	ug/L	2.975	31.65	ug/L	2.975	9.40%
QC value greater than the upper limit for P 213.617 Recovery = Not calculated								
Pb 220.353	18.2	1.108	ug/L	0.3606	1.108	ug/L	0.3606	32.55%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	9.5	1.467	ug/L	0.3285	1.467	ug/L	0.3285	22.40%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	2.3	0.398	ug/L	0.9907	0.398	ug/L	0.9907	249.03%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	2.8	0.327	ug/L	0.7159	0.327	ug/L	0.7159	219.03%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	245.9	0.256	ug/L	0.1004	0.256	ug/L	0.1004	39.22%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-4.8	-0.116	ug/L	0.2166	-0.116	ug/L	0.2166	186.87%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	7.0	0.997	ug/L	0.1680	0.997	ug/L	0.1680	16.85%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	79.8	0.323	ug/L	0.0453	0.323	ug/L	0.0453	14.00%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-111.5	-1.107	ug/L	0.0982	-1.107	ug/L	0.0982	8.87%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 79
Sample ID: CCV1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 4:25:13 PM
Data Type: Reprocessed on 12/06/12 10:13:43 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65271.4	502.5	ug/L	2.68	502.5	ug/L	2.68	0.53%
QC value within limits for Ag 338.289 Recovery = 100.50%								
Al 308.215	35971.7	21560	ug/L	92.0	21560	ug/L	92.0	0.43%
QC value within limits for Al 308.215 Recovery = 107.82%								
As 188.979	5586.8	1002	ug/L	12.0	1002	ug/L	12.0	1.20%
QC value within limits for As 188.979 Recovery = 100.17%								
B	4172.9	1083	ug/L	17.4	1083	ug/L	17.4	1.61%
QC value within limits for B Recovery = 108.30%								
Ba 233.527	175883.9	1010	ug/L	1.9	1010	ug/L	1.9	0.19%
QC value within limits for Ba 233.527 Recovery = 100.99%								
Be 313.107	6819538.9	1020	ug/L	8.5	1020	ug/L	8.5	0.83%
QC value within limits for Be 313.107 Recovery = 102.00%								
Ca 315.887	674439.9	54500	ug/L	411.8	54500	ug/L	411.8	0.76%
QC value within limits for Ca 315.887 Recovery = 109.00%								
Cd 214.440	408126.9	1015	ug/L	1.1	1015	ug/L	1.1	0.11%
QC value within limits for Cd 214.440 Recovery = 101.54%								
Co 228.616	74550.9	1020	ug/L	2.0	1020	ug/L	2.0	0.19%
QC value within limits for Co 228.616 Recovery = 101.99%								
Cr 267.716	155428.5	1016	ug/L	0.7	1016	ug/L	0.7	0.07%
QC value within limits for Cr 267.716 Recovery = 101.57%								
Cu 327.393	126374.1	999.5	ug/L	1.93	999.5	ug/L	1.93	0.19%
QC value within limits for Cu 327.393 Recovery = 99.95%								
Fe 273.955	559109.1	20280	ug/L	24.4	20280	ug/L	24.4	0.12%
QC value within limits for Fe 273.955 Recovery = 101.38%								
K 766.490	46128.9	21410	ug/L	57.2	21410	ug/L	57.2	0.27%
QC value within limits for K 766.490 Recovery = 107.07%								
Mg 285.213	1047315.4	54370	ug/L	369.5	54370	ug/L	369.5	0.68%
QC value within limits for Mg 285.213 Recovery = 108.73%								
Mn 257.610	57087.4	1069	ug/L	2.2	1069	ug/L	2.2	0.20%
QC value within limits for Mn 257.610 Recovery = 106.88%								
Mo 202.031	47817.5	1045	ug/L	14.7	1045	ug/L	14.7	1.40%
QC value within limits for Mo 202.031 Recovery = 104.47%								
Na 589.592	331182.2	25970	ug/L	216.1	25970	ug/L	216.1	0.83%
QC value within limits for Na 589.592 Recovery = 103.87%								
Ni 231.604	72262.3	1037	ug/L	16.0	1037	ug/L	16.0	1.55%
QC value within limits for Ni 231.604 Recovery = 103.66%								
P 213.617	39668.2	5189	ug/L	69.2	5189	ug/L	69.2	1.33%
QC value within limits for P 213.617 Recovery = 103.78%								
Pb 220.353	16855.4	1028	ug/L	15.1	1028	ug/L	15.1	1.47%
QC value within limits for Pb 220.353 Recovery = 102.79%								
Sb 206.836	6647.3	1031	ug/L	16.6	1031	ug/L	16.6	1.61%
QC value within limits for Sb 206.836 Recovery = 103.08%								
Se 196.026	5839.3	1015	ug/L	12.7	1015	ug/L	12.7	1.25%
QC value within limits for Se 196.026 Recovery = 101.51%								
Sn 189.927	8662.1	1011	ug/L	20.9	1011	ug/L	20.9	2.07%
QC value within limits for Sn 189.927 Recovery = 101.10%								
Sr 421.552	1035102.1	1079	ug/L	8.9	1079	ug/L	8.9	0.83%
QC value within limits for Sr 421.552 Recovery = 107.90%								
Ti 337.279	46309.1	1120	ug/L	2.7	1120	ug/L	2.7	0.24%
QC value greater than the upper limit for Ti 337.279 Recovery = 111.96%								
Tl 190.801	7219.7	1024	ug/L	15.0	1024	ug/L	15.0	1.47%
QC value within limits for Tl 190.801 Recovery = 102.42%								
V 292.402	254014.1	1034	ug/L	1.6	1034	ug/L	1.6	0.15%
QC value within limits for V 292.402 Recovery = 103.42%								
Zn 206.200	102081.1	1021	ug/L	2.4	1021	ug/L	2.4	0.24%
QC value within limits for Zn 206.200 Recovery = 102.13%								

QC Failed. Continue with analysis.

Sequence No.: 80
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 4:37:04 PM
Data Type: Reprocessed on 12/06/12 10:13:44 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-144.7	-1.114	ug/L	0.8602	-1.114	ug/L	0.8602	77.19%
QC value less than the lower limit for Ag 338.289 Recovery = Not calculated								
Al 308.215	14.6	8.780	ug/L	7.6502	8.780	ug/L	7.6502	87.13%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	3.2	0.572	ug/L	0.7633	0.572	ug/L	0.7633	133.44%
QC value within limits for As 188.979 Recovery = Not calculated								
B	32.0	7.826	ug/L	2.2900	7.826	ug/L	2.2900	29.26%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-6.2	-0.034	ug/L	0.0379	-0.034	ug/L	0.0379	109.95%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-119.8	-0.018	ug/L	0.0287	-0.018	ug/L	0.0287	159.91%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	472.6	38.19	ug/L	10.601	38.19	ug/L	10.601	27.76%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	17.7	0.044	ug/L	0.0508	0.044	ug/L	0.0508	114.88%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-5.6	-0.077	ug/L	0.1084	-0.077	ug/L	0.1084	140.05%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-81.2	-0.530	ug/L	0.0502	-0.530	ug/L	0.0502	9.47%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	213.4	1.688	ug/L	0.9496	1.688	ug/L	0.9496	56.25%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	-83.5	-3.057	ug/L	0.8877	-3.057	ug/L	0.8877	29.04%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	309.1	143.6	ug/L	62.46	143.6	ug/L	62.46	43.49%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	47.3	2.446	ug/L	0.2446	2.446	ug/L	0.2446	10.00%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	13.0	0.243	ug/L	0.1483	0.243	ug/L	0.1483	60.97%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	4.5	0.097	ug/L	0.3046	0.097	ug/L	0.3046	314.98%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	412.2	32.29	ug/L	11.846	32.29	ug/L	11.846	36.69%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-19.7	-0.283	ug/L	0.1420	-0.283	ug/L	0.1420	50.13%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	138.2	18.08	ug/L	3.681	18.08	ug/L	3.681	20.36%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-2.6	-0.161	ug/L	0.3351	-0.161	ug/L	0.3351	208.16%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	12.2	1.892	ug/L	0.5686	1.892	ug/L	0.5686	30.06%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	6.9	1.190	ug/L	2.1169	1.190	ug/L	2.1169	177.89%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	0.7	0.080	ug/L	1.0544	0.080	ug/L	1.0544	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	251.0	0.262	ug/L	0.1311	0.262	ug/L	0.1311	50.06%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	10.0	0.240	ug/L	0.2631	0.240	ug/L	0.2631	109.54%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.0	1.131	ug/L	0.5731	1.131	ug/L	0.5731	50.65%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	43.7	0.172	ug/L	0.6800	0.172	ug/L	0.6800	395.90%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-127.3	-1.264	ug/L	0.0712	-1.264	ug/L	0.0712	5.64%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 121211A6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1 Autosampler Location: 1
Sample ID: CalBlk 121211EA I:PB O:EA Date Collected: 12/11/12 10:06:13 AM
Analyst: Data Type: Reprocessed on 12/12/12 9:39:28 AM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CalBlk 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-195.6	148.70	76.00%	[0.00]	ug/L
Al 308.215	131.1	3.98	3.04%	[0.00]	ug/L
As 188.979	-7.2	3.21	44.45%	[0.00]	ug/L
B	6.1	6.78	111.31%	[0.00]	ug/L
Ba 233.527	114.0	9.23	8.09%	[0.00]	ug/L
Be 313.107	2378.0	39.73	1.67%	[0.00]	ug/L
Ca 315.887	-449.2	30.67	6.83%	[0.00]	ug/L
Cd 214.440	424.9	26.38	6.21%	[0.00]	ug/L
Co 228.616	55.4	6.93	12.50%	[0.00]	ug/L
Cr 267.716	670.3	8.91	1.33%	[0.00]	ug/L
Cu 327.393	-34.3	102.94	299.86%	[0.00]	ug/L
Fe 273.955	182.0	23.89	13.13%	[0.00]	ug/L
K 766.490	-346.2	83.64	24.16%	[0.00]	ug/L
Mg 285.213	-115.3	3.93	3.41%	[0.00]	ug/L
Mn 257.610	-47.3	11.19	23.67%	[0.00]	ug/L
Mo 202.031	176.7	14.07	7.96%	[0.00]	ug/L
Na 589.592	-70.2	126.70	180.55%	[0.00]	ug/L
Ni 231.604	-190.4	14.42	7.57%	[0.00]	ug/L
P 213.617	49.5	7.18	14.49%	[0.00]	ug/L
Pb 220.353	-32.4	4.86	15.01%	[0.00]	ug/L
Sb 206.836	0.3	2.59	803.88%	[0.00]	ug/L
Se 196.026	-20.1	5.51	27.45%	[0.00]	ug/L
Sn 189.927	-15.7	1.21	7.72%	[0.00]	ug/L
Sr 421.552	907.2	180.17	19.86%	[0.00]	ug/L
Ti 337.279	-400.2	10.55	2.64%	[0.00]	ug/L
Tl 190.801	-10.4	1.78	17.08%	[0.00]	ug/L
V 292.402	-718.9	116.90	16.26%	[0.00]	ug/L
Zn 206.200	-366.2	8.19	2.24%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 12/11/12 10:10:33 AM
Data Type: Reprocessed on 12/12/12 9:39:29 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	184.1	76.97	41.80%	[1.00]	ug/L
Al 308.215	160.0	18.08	11.30%	[100.00]	ug/L
As 188.979	21.9	3.04	13.86%	[3.50]	ug/L
B	215.0	8.78	4.09%	[50.00]	ug/L
Ba 233.527	847.4	5.50	0.65%	[5.00]	ug/L
Be 313.107	12740.0	91.05	0.71%	[2.00]	ug/L
Ca 315.887	1227.1	28.27	2.30%	[100.00]	ug/L
Cd 214.440	1915.9	33.10	1.73%	[5.00]	ug/L
Co 228.616	372.2	6.11	1.64%	[5.00]	ug/L
Cr 267.716	731.6	9.08	1.24%	[5.00]	ug/L
Cu 327.393	449.8	68.81	15.30%	[5.00]	ug/L
Fe 273.955	1372.3	16.53	1.20%	[50.00]	ug/L
K 766.490	2166.2	46.25	2.14%	[1000.00]	ug/L
Mg 285.213	1012.4	11.21	1.11%	[50]	ug/L
Mn 257.610	257.0	9.33	3.63%	[5.00]	ug/L
Mo 202.031	208.2	7.90	3.79%	[5.00]	ug/L
Na 589.592	13195.3	223.20	1.69%	[1000.00]	ug/L
Ni 231.604	367.1	3.48	0.95%	[5.00]	ug/L
P 213.617	172.5	7.64	4.43%	[25.00]	ug/L
Pb 220.353	40.6	2.73	6.72%	[3.00]	ug/L
Sb 206.836	31.9	3.46	10.83%	[5.00]	ug/L
Se 196.026	31.4	17.07	54.41%	[5.00]	ug/L
Sn 189.927	35.5	1.57	4.44%	[5.00]	ug/L
Sr 421.552	5103.9	87.91	1.72%	[5.00]	ug/L
Ti 337.279	215.4	7.79	3.62%	[5.00]	ug/L
Tl 190.801	32.0	2.37	7.40%	[5.00]	ug/L
V 292.402	1195.9	23.62	1.98%	[5.00]	ug/L
Zn 206.200	1942.0	25.53	1.31%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/11/12 10:14:57 AM
Data Type: Reprocessed on 12/12/12 9:39:30 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	64193.8	789.04	1.23%	[500.0]	ug/L
Al 308.215	33974.7	247.16	0.73%	[20000.00]	ug/L
As 188.979	5281.5	9.82	0.19%	[1000.00]	ug/L
B	4308.2	50.11	1.16%	[1000.00]	ug/L
Ba 233.527	164940.6	1003.64	0.61%	[1000.00]	ug/L
Be 313.107	6475843.8	143345.64	2.21%	[1000.00]	ug/L
Ca 315.887	607307.4	6092.67	1.00%	[50000]	ug/L
Cd 214.440	366460.7	2616.80	0.71%	[1000.00]	ug/L
Co 228.616	69896.4	315.72	0.45%	[1000.00]	ug/L
Cr 267.716	143176.7	909.26	0.64%	[1000.00]	ug/L
Cu 327.393	91332.9	1091.85	1.20%	[1000.00]	ug/L
Fe 273.955	526911.3	3530.61	0.67%	[20000]	ug/L
K 766.490	49408.8	407.47	0.82%	[20000]	ug/L
Mg 285.213	1004894.9	9890.44	0.98%	[50000]	ug/L
Mn 257.610	54488.8	386.55	0.71%	[1000.00]	ug/L
Mo 202.031	43229.5	282.64	0.65%	[1000.00]	ug/L
Na 589.592	333662.2	3614.57	1.08%	[25000]	ug/L
Ni 231.604	64948.9	455.86	0.70%	[1000.00]	ug/L
P 213.617	35185.4	260.18	0.74%	[5000]	ug/L
Pb 220.353	14817.1	24.79	0.17%	[1000.00]	ug/L
Sb 206.836	6313.5	21.87	0.35%	[1000.00]	ug/L
Se 196.026	5464.3	21.77	0.40%	[1000.00]	ug/L
Sn 189.927	7197.5	31.00	0.43%	[1000.00]	ug/L
Sr 421.552	1016909.2	11988.52	1.18%	[1000.00]	ug/L
Ti 337.279	44360.4	342.66	0.77%	[1000.00]	ug/L
Tl 190.801	6744.4	13.73	0.20%	[1000.00]	ug/L
V 292.402	237496.2	1370.53	0.58%	[1000.00]	ug/L
Zn 206.200	89971.0	626.65	0.70%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 12/11/12 10:18:33 AM
Data Type: Reprocessed on 12/12/12 9:39:31 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	127228.4	1307.85	1.03%	[1000.00]	ug/L
Al 308.215	66621.8	463.45	0.70%	[40000.00]	ug/L
As 188.979	10441.5	79.84	0.76%	[2000.00]	ug/L
B	8510.7	62.63	0.74%	[2000.00]	ug/L
Ba 233.527	322087.9	2528.24	0.78%	[2000.00]	ug/L
Be 313.107	12368905.8	15428.81	0.12%	[2000.00]	ug/L
Ca 315.887	1188745.9	13543.19	1.14%	[100000.0]	ug/L
Cd 214.440	702601.8	5831.12	0.83%	[2000.00]	ug/L
Co 228.616	136098.1	1167.73	0.86%	[2000.00]	ug/L
Cr 267.716	278338.1	1994.43	0.72%	[2000.00]	ug/L
Cu 327.393	182334.2	1399.06	0.77%	[2000.00]	ug/L
Fe 273.955	1023788.5	7875.11	0.77%	[40000]	ug/L
K 766.490	102950.3	718.87	0.70%	[40000]	ug/L
Mg 285.213	1947093.1	16824.23	0.86%	[100000]	ug/L
Mn 257.610	105878.5	833.75	0.79%	[2000.00]	ug/L
Mo 202.031	84506.7	768.51	0.91%	[2000.00]	ug/L
Na 589.592	658783.7	6715.38	1.02%	[50000]	ug/L
Ni 231.604	125437.3	1276.70	1.02%	[2000.00]	ug/L
P 213.617	69240.1	573.67	0.83%	[10000]	ug/L
Pb 220.353	28906.9	168.51	0.58%	[2000.00]	ug/L
Sb 206.836	12521.9	72.40	0.58%	[2000.00]	ug/L
Se 196.026	10694.7	47.18	0.44%	[2000.00]	ug/L
Sn 189.927	14128.9	186.80	1.32%	[2000.00]	ug/L
Sr 421.552	2006476.9	20518.22	1.02%	[2000.00]	ug/L
Ti 337.279	87134.3	712.01	0.82%	[2000.00]	ug/L
Tl 190.801	13214.8	82.63	0.63%	[2000.00]	ug/L
V 292.402	466907.2	4502.63	0.96%	[2000.00]	ug/L
Zn 206.200	172148.0	1676.97	0.97%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	127.5	0.00000	0.999993	
Al 308.215	3	Lin Thru 0	0.0	1.672	0.00000	0.999968	
As 188.979	3	Lin Thru 0	0.0	5.233	0.00000	0.999989	
B	3	Lin Thru 0	0.0	4.266	0.00000	0.999988	
Ba 233.527	3	Lin Thru 0	0.0	161.8	0.00000	0.999954	
Be 313.107	3	Lin Thru 0	0.0	6243	0.00000	0.999826	
Ca 315.887	3	Lin Thru 0	0.0	11.94	0.00000	0.999962	
Cd 214.440	3	Lin Thru 0	0.0	354.3	0.00000	0.999854	
Co 228.616	3	Lin Thru 0	0.0	68.42	0.00000	0.999942	
Cr 267.716	3	Lin Thru 0	0.0	140.0	0.00000	0.999934	
Cu 327.393	3	Lin Thru 0	0.0	91.20	0.00000	1.000000	
Fe 273.955	3	Lin Thru 0	0.0	25.74	0.00000	0.999932	
K 766.490	3	Lin Thru 0	0.0	2.553	0.00000	0.999863	
Mg 285.213	3	Lin Thru 0	0.0	19.60	0.00000	0.999918	
Mn 257.610	3	Lin Thru 0	0.0	53.25	0.00000	0.999932	
Mo 202.031	3	Lin Thru 0	0.0	42.45	0.00000	0.999958	
Na 589.592	3	Lin Thru 0	0.0	13.21	0.00000	0.999987	
Ni 231.604	3	Lin Thru 0	0.0	63.16	0.00000	0.999900	
P 213.617	3	Lin Thru 0	0.0	6.947	0.00000	0.999979	
Pb 220.353	3	Lin Thru 0	0.0	14.53	0.00000	0.999950	
Sb 206.836	3	Lin Thru 0	0.0	6.271	0.00000	0.999994	
Se 196.026	3	Lin Thru 0	0.0	5.371	0.00000	0.999962	
Sn 189.927	3	Lin Thru 0	0.0	7.091	0.00000	0.999972	
Sr 421.552	3	Lin Thru 0	0.0	1006	0.00000	0.999985	
Ti 337.279	3	Lin Thru 0	0.0	43.73	0.00000	0.999974	
Tl 190.801	3	Lin Thru 0	0.0	6.635	0.00000	0.999966	

V 292.402	3	Lin Thru 0	0.0	234.3	0.00000	0.999976
Zn 206.200	3	Lin Thru 0	0.0	86.85	0.00000	0.999838

Sequence No.: 5
Sample ID: ICV 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 12/11/12 10:26:14 AM
Data Type: Reprocessed on 12/12/12 9:39:32 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65715.4	515.6	ug/L	7.45	515.6	ug/L	7.45	1.44%
QC value within limits for Ag 338.289 Recovery = 103.12%								
Al 308.215	43661.5	26120	ug/L	368.2	26120	ug/L	368.2	1.41%
QC value within limits for Al 308.215 Recovery = 104.49%								
As 188.979	5158.6	985.8	ug/L	4.44	985.8	ug/L	4.44	0.45%
QC value within limits for As 188.979 Recovery = 98.58%								
B	4233.6	1076	ug/L	16.5	1076	ug/L	16.5	1.53%
QC value within limits for B Recovery = 107.58%								
Ba 233.527	163838.5	997.3	ug/L	9.50	997.3	ug/L	9.50	0.95%
QC value within limits for Ba 233.527 Recovery = 99.73%								
Be 313.107	6396963.0	1025	ug/L	14.2	1025	ug/L	14.2	1.38%
QC value within limits for Be 313.107 Recovery = 102.47%								
Ca 315.887	312757.8	26190	ug/L	151.9	26190	ug/L	151.9	0.58%
QC value within limits for Ca 315.887 Recovery = 104.74%								
Cd 214.440	365211.8	1030	ug/L	7.8	1030	ug/L	7.8	0.76%
QC value within limits for Cd 214.440 Recovery = 103.00%								
Co 228.616	70410.7	1028	ug/L	8.8	1028	ug/L	8.8	0.86%
QC value within limits for Co 228.616 Recovery = 102.82%								
Cr 267.716	143607.2	1027	ug/L	8.8	1027	ug/L	8.8	0.86%
QC value within limits for Cr 267.716 Recovery = 102.71%								
Cu 327.393	89650.1	983.0	ug/L	14.23	983.0	ug/L	14.23	1.45%
QC value within limits for Cu 327.393 Recovery = 98.30%								
Fe 273.955	688114.6	26640	ug/L	241.5	26640	ug/L	241.5	0.91%
QC value within limits for Fe 273.955 Recovery = 106.58%								
K 766.490	61786.2	24190	ug/L	432.0	24190	ug/L	432.0	1.79%
QC value within limits for K 766.490 Recovery = 96.76%								
Mg 285.213	515668.3	26340	ug/L	109.2	26340	ug/L	109.2	0.41%
QC value within limits for Mg 285.213 Recovery = 105.38%								
Mn 257.610	54925.9	1032	ug/L	16.1	1032	ug/L	16.1	1.56%
QC value within limits for Mn 257.610 Recovery = 103.19%								
Mo 202.031	42947.3	1015	ug/L	11.7	1015	ug/L	11.7	1.16%
QC value within limits for Mo 202.031 Recovery = 101.45%								
Na 589.592	332983.9	25190	ug/L	145.6	25190	ug/L	145.6	0.58%
QC value within limits for Na 589.592 Recovery = 100.75%								
Ni 231.604	66597.2	1052	ug/L	9.3	1052	ug/L	9.3	0.88%
QC value within limits for Ni 231.604 Recovery = 105.23%								
P 213.617	33306.0	4795	ug/L	44.9	4795	ug/L	44.9	0.94%
QC value within limits for P 213.617 Recovery = 95.89%								
Pb 220.353	15175.4	1045	ug/L	2.0	1045	ug/L	2.0	0.19%
QC value within limits for Pb 220.353 Recovery = 104.47%								
Sb 206.836	6539.9	1043	ug/L	4.6	1043	ug/L	4.6	0.44%
QC value within limits for Sb 206.836 Recovery = 104.28%								
Se 196.026	5413.3	1021	ug/L	5.4	1021	ug/L	5.4	0.53%
QC value within limits for Se 196.026 Recovery = 102.10%								
Sn 189.927	4151.0	585.4	ug/L	1.00	585.4	ug/L	1.00	0.17%
QC value greater than the upper limit for Sn 189.927 Recovery = 117.08%								
Sr 421.552	974239.5	968.2	ug/L	5.29	968.2	ug/L	5.29	0.55%
QC value within limits for Sr 421.552 Recovery = 96.82%								
Ti 337.279	44067.2	1007	ug/L	23.3	1007	ug/L	23.3	2.31%
QC value within limits for Ti 337.279 Recovery = 100.73%								
Tl 190.801	6770.7	1020	ug/L	2.3	1020	ug/L	2.3	0.23%
QC value within limits for Tl 190.801 Recovery = 102.05%								
V 292.402	237723.5	1031	ug/L	11.0	1031	ug/L	11.0	1.06%
QC value within limits for V 292.402 Recovery = 103.13%								
Zn 206.200	91435.6	1062	ug/L	8.6	1062	ug/L	8.6	0.81%
QC value within limits for Zn 206.200 Recovery = 106.22%								

QC Failed. Continue with analysis.

Sequence No.: 6
Sample ID: ICB 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/11/12 10:30:50 AM
Data Type: Reprocessed on 12/12/12 9:39:33 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	85.3	0.669	ug/L	0.6316	0.669	ug/L	0.6316	94.39%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	5.9	3.536	ug/L	7.5576	3.536	ug/L	7.5576	213.71%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.1	1.359	ug/L	0.3508	1.359	ug/L	0.3508	25.82%
QC value within limits for As 188.979 Recovery = Not calculated								
B	41.1	9.639	ug/L	1.6002	9.639	ug/L	1.6002	16.60%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	15.8	0.095	ug/L	0.0146	0.095	ug/L	0.0146	15.28%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-196.1	-0.031	ug/L	0.0096	-0.031	ug/L	0.0096	30.52%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	22.2	1.854	ug/L	1.6557	1.854	ug/L	1.6557	89.33%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	18.6	0.052	ug/L	0.0600	0.052	ug/L	0.0600	114.53%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	8.8	0.129	ug/L	0.0470	0.129	ug/L	0.0470	36.60%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-2.6	-0.019	ug/L	0.0646	-0.019	ug/L	0.0646	337.83%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	57.8	0.634	ug/L	1.1842	0.634	ug/L	1.1842	186.77%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	56.7	2.234	ug/L	0.6876	2.234	ug/L	0.6876	30.77%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-30.9	-12.09	ug/L	37.956	-12.09	ug/L	37.956	313.87%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	7.7	0.398	ug/L	0.2561	0.398	ug/L	0.2561	64.42%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-8.6	-0.162	ug/L	0.0950	-0.162	ug/L	0.0950	58.78%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	5.1	0.119	ug/L	0.2185	0.119	ug/L	0.2185	182.93%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	579.7	43.89	ug/L	5.684	43.89	ug/L	5.684	12.95%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	18.7	0.296	ug/L	0.0698	0.296	ug/L	0.0698	23.62%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-4.2	-0.607	ug/L	0.1056	-0.607	ug/L	0.1056	17.39%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-2.8	-0.192	ug/L	0.1867	-0.192	ug/L	0.1867	97.05%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	7.8	1.250	ug/L	0.1645	1.250	ug/L	0.1645	13.17%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	4.0	0.742	ug/L	1.1446	0.742	ug/L	1.1446	154.19%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	19.6	2.769	ug/L	0.8393	2.769	ug/L	0.8393	30.31%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	148.3	0.147	ug/L	0.1506	0.147	ug/L	0.1506	102.23%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	6.1	0.138	ug/L	0.4227	0.138	ug/L	0.4227	305.42%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	7.5	1.138	ug/L	0.6937	1.138	ug/L	0.6937	60.98%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-98.0	-0.417	ug/L	0.1747	-0.417	ug/L	0.1747	41.84%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-56.5	-0.650	ug/L	0.0961	-0.650	ug/L	0.0961	14.77%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 12/11/12 10:39:37 AM
Data Type: Reprocessed on 12/12/12 9:39:36 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-23.3	-0.183	ug/L	0.2642	-0.183	ug/L	0.2642	144.60%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	316004.5	189000	ug/L	1357.8	189000	ug/L	1357.8	0.72%
QC value within limits for Al 308.215 Recovery = 94.50%								
As 188.979	2.8	0.537	ug/L	1.2657	0.537	ug/L	1.2657	235.51%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2098.3	64.88	ug/L	22.334	64.88	ug/L	22.334	34.42%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	16953.3	0.124	ug/L	2.9051	0.124	ug/L	2.9051	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-751.7	-0.120	ug/L	0.0067	-0.120	ug/L	0.0067	5.58%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2277488.6	190700	ug/L	1786.3	190700	ug/L	1786.3	0.94%
QC value within limits for Ca 315.887 Recovery = 95.36%								
Cd 214.440	3222.4	0.061	ug/L	0.0591	0.061	ug/L	0.0591	96.24%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	295.5	0.287	ug/L	0.0689	0.287	ug/L	0.0689	24.05%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-62.6	0.092	ug/L	0.2229	0.092	ug/L	0.2229	242.77%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-144.6	-1.586	ug/L	0.2311	-1.586	ug/L	0.2311	14.57%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4532721.4	176000	ug/L	724.8	176000	ug/L	724.8	0.41%
QC value within limits for Fe 273.955 Recovery = 88.02%								
K 766.490	259.2	-10.46	ug/L	52.253	-10.46	ug/L	52.253	499.52%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3657555.5	186800	ug/L	1383.6	186800	ug/L	1383.6	0.74%
QC value within limits for Mg 285.213 Recovery = 93.42%								
Mn 257.610	-174.7	-2.390	ug/L	0.3505	-2.390	ug/L	0.3505	14.66%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-564.6	0.032	ug/L	0.1612	0.032	ug/L	0.1612	500.60%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	466.9	-8.853	ug/L	8.1044	-8.853	ug/L	8.1044	91.55%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	29.7	0.267	ug/L	0.2198	0.267	ug/L	0.2198	82.26%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-42.8	-6.162	ug/L	1.6248	-6.162	ug/L	1.6248	26.37%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	4.6	0.314	ug/L	0.6946	0.314	ug/L	0.6946	221.15%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-4.8	-0.760	ug/L	0.3608	-0.760	ug/L	0.3608	47.48%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-476.5	4.206	ug/L	2.2766	4.206	ug/L	2.2766	54.13%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	1.4	0.202	ug/L	1.9232	0.202	ug/L	1.9232	951.20%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2134.8	-0.009	ug/L	0.1226	-0.009	ug/L	0.1226	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	109.9	-0.828	ug/L	1.1108	-0.828	ug/L	1.1108	134.14%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-5.3	-0.804	ug/L	1.2866	-0.804	ug/L	1.2866	160.07%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	10342.5	0.437	ug/L	0.0220	0.437	ug/L	0.0220	5.02%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	585.1	-2.126	ug/L	0.0898	-2.126	ug/L	0.0898	4.22%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 12/11/12 10:44:17 AM
Data Type: Reprocessed on 12/12/12 9:39:37 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	126781.2	994.7	ug/L	5.21	994.7	ug/L	5.21	0.52%
QC value within limits for Ag 338.289 Recovery = 99.47%								
Al 308.215	315921.5	189000	ug/L	541.8	189000	ug/L	541.8	0.29%
QC value within limits for Al 308.215 Recovery = 94.48%								
As 188.979	2445.4	467.3	ug/L	2.09	467.3	ug/L	2.09	0.45%
QC value within limits for As 188.979 Recovery = 93.46%								
B	-2087.5	62.57	ug/L	5.870	62.57	ug/L	5.870	9.38%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	91001.2	458.8	ug/L	3.69	458.8	ug/L	3.69	0.80%
QC value within limits for Ba 233.527 Recovery = 91.77%								
Be 313.107	2909577.3	466.1	ug/L	5.03	466.1	ug/L	5.03	1.08%
QC value within limits for Be 313.107 Recovery = 93.21%								
Ca 315.887	2280068.1	190900	ug/L	664.1	190900	ug/L	664.1	0.35%
QC value within limits for Ca 315.887 Recovery = 95.47%								
Cd 214.440	324489.9	907.0	ug/L	1.91	907.0	ug/L	1.91	0.21%
QC value within limits for Cd 214.440 Recovery = 90.70%								
Co 228.616	31148.4	452.1	ug/L	1.35	452.1	ug/L	1.35	0.30%
QC value within limits for Co 228.616 Recovery = 90.43%								
Cr 267.716	64516.3	462.0	ug/L	2.55	462.0	ug/L	2.55	0.55%
QC value within limits for Cr 267.716 Recovery = 92.39%								
Cu 327.393	43670.2	478.8	ug/L	2.42	478.8	ug/L	2.42	0.51%
QC value within limits for Cu 327.393 Recovery = 95.77%								
Fe 273.955	4499362.4	174700	ug/L	2187.3	174700	ug/L	2187.3	1.25%
QC value within limits for Fe 273.955 Recovery = 87.35%								
K 766.490	120.6	-65.46	ug/L	36.117	-65.46	ug/L	36.117	55.17%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3652695.1	186600	ug/L	448.4	186600	ug/L	448.4	0.24%
QC value within limits for Mg 285.213 Recovery = 93.30%								
Mn 257.610	24661.8	464.0	ug/L	7.34	464.0	ug/L	7.34	1.58%
QC value within limits for Mn 257.610 Recovery = 92.81%								
Mo 202.031	19389.4	470.4	ug/L	2.88	470.4	ug/L	2.88	0.61%
QC value within limits for Mo 202.031 Recovery = 94.07%								
Na 589.592	469.1	-10.31	ug/L	9.408	-10.31	ug/L	9.408	91.21%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	58001.7	917.2	ug/L	0.88	917.2	ug/L	0.88	0.10%
QC value within limits for Ni 231.604 Recovery = 91.72%								
P 213.617	-29.0	-4.176	ug/L	0.9601	-4.176	ug/L	0.9601	22.99%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	13392.2	921.9	ug/L	1.67	921.9	ug/L	1.67	0.18%
QC value within limits for Pb 220.353 Recovery = 92.19%								
Sb 206.836	2934.6	467.9	ug/L	4.96	467.9	ug/L	4.96	1.06%
QC value within limits for Sb 206.836 Recovery = 93.59%								
Se 196.026	2036.4	471.2	ug/L	5.46	471.2	ug/L	5.46	1.16%
QC value within limits for Se 196.026 Recovery = 94.24%								
Sn 189.927	0.2	0.027	ug/L	0.4751	0.027	ug/L	0.4751	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2295.5	0.157	ug/L	0.0967	0.157	ug/L	0.0967	61.74%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	135.3	-0.195	ug/L	0.8140	-0.195	ug/L	0.8140	416.75%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2944.2	443.8	ug/L	2.37	443.8	ug/L	2.37	0.53%
QC value within limits for Tl 190.801 Recovery = 88.75%								
V 292.402	120494.1	482.0	ug/L	3.15	482.0	ug/L	3.15	0.65%
QC value within limits for V 292.402 Recovery = 96.39%								
Zn 206.200	80026.1	917.3	ug/L	1.95	917.3	ug/L	1.95	0.21%
QC value within limits for Zn 206.200 Recovery = 91.73%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 12/11/12 10:48:58 AM
Data Type: Reprocessed on 12/12/12 9:39:38 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65185.7	511.4	ug/L	3.80	511.4	ug/L	3.80	0.74%
QC value within limits for Ag 338.289 Recovery = 102.28%								
Al 308.215	34558.5	20680	ug/L	61.7	20680	ug/L	61.7	0.30%
QC value within limits for Al 308.215 Recovery = 103.39%								
As 188.979	5376.6	1027	ug/L	1.5	1027	ug/L	1.5	0.14%
QC value within limits for As 188.979 Recovery = 102.75%								
B	4336.6	1080	ug/L	2.6	1080	ug/L	2.6	0.24%
QC value within limits for B Recovery = 107.98%								
Ba 233.527	167816.7	1025	ug/L	6.2	1025	ug/L	6.2	0.60%
QC value within limits for Ba 233.527 Recovery = 102.54%								
Be 313.107	6546900.9	1049	ug/L	7.0	1049	ug/L	7.0	0.66%
QC value within limits for Be 313.107 Recovery = 104.87%								
Ca 315.887	615584.0	51550	ug/L	111.8	51550	ug/L	111.8	0.22%
QC value within limits for Ca 315.887 Recovery = 103.10%								
Cd 214.440	373539.6	1054	ug/L	5.8	1054	ug/L	5.8	0.55%
QC value within limits for Cd 214.440 Recovery = 105.38%								
Co 228.616	71219.9	1040	ug/L	6.1	1040	ug/L	6.1	0.58%
QC value within limits for Co 228.616 Recovery = 104.00%								
Cr 267.716	145417.4	1040	ug/L	5.6	1040	ug/L	5.6	0.54%
QC value within limits for Cr 267.716 Recovery = 103.98%								
Cu 327.393	93031.9	1020	ug/L	9.2	1020	ug/L	9.2	0.90%
QC value within limits for Cu 327.393 Recovery = 102.01%								
Fe 273.955	536398.8	20750	ug/L	111.5	20750	ug/L	111.5	0.54%
QC value within limits for Fe 273.955 Recovery = 103.74%								
K 766.490	50255.2	19670	ug/L	10.5	19670	ug/L	10.5	0.05%
QC value within limits for K 766.490 Recovery = 98.34%								
Mg 285.213	1012150.8	51670	ug/L	114.1	51670	ug/L	114.1	0.22%
QC value within limits for Mg 285.213 Recovery = 103.35%								
Mn 257.610	55486.2	1041	ug/L	1.2	1041	ug/L	1.2	0.11%
QC value within limits for Mn 257.610 Recovery = 104.09%								
Mo 202.031	44012.8	1039	ug/L	6.0	1039	ug/L	6.0	0.57%
QC value within limits for Mo 202.031 Recovery = 103.90%								
Na 589.592	335792.9	25400	ug/L	91.3	25400	ug/L	91.3	0.36%
QC value within limits for Na 589.592 Recovery = 101.59%								
Ni 231.604	66272.0	1047	ug/L	4.8	1047	ug/L	4.8	0.46%
QC value within limits for Ni 231.604 Recovery = 104.71%								
P 213.617	35894.9	5167	ug/L	26.2	5167	ug/L	26.2	0.51%
QC value within limits for P 213.617 Recovery = 103.34%								
Pb 220.353	15238.8	1049	ug/L	3.0	1049	ug/L	3.0	0.28%
QC value within limits for Pb 220.353 Recovery = 104.91%								
Sb 206.836	6465.9	1031	ug/L	4.3	1031	ug/L	4.3	0.41%
QC value within limits for Sb 206.836 Recovery = 103.10%								
Se 196.026	5557.5	1044	ug/L	2.9	1044	ug/L	2.9	0.28%
QC value within limits for Se 196.026 Recovery = 104.37%								
Sn 189.927	7516.1	1060	ug/L	4.8	1060	ug/L	4.8	0.45%
QC value within limits for Sn 189.927 Recovery = 105.99%								
Sr 421.552	1022827.9	1016	ug/L	3.4	1016	ug/L	3.4	0.33%
QC value within limits for Sr 421.552 Recovery = 101.64%								
Ti 337.279	45124.3	1031	ug/L	2.0	1031	ug/L	2.0	0.20%
QC value within limits for Ti 337.279 Recovery = 103.12%								
Tl 190.801	6852.7	1033	ug/L	7.1	1033	ug/L	7.1	0.68%
QC value within limits for Tl 190.801 Recovery = 103.28%								
V 292.402	241405.4	1049	ug/L	4.7	1049	ug/L	4.7	0.45%
QC value within limits for V 292.402 Recovery = 104.89%								
Zn 206.200	91625.4	1065	ug/L	5.8	1065	ug/L	5.8	0.54%
QC value within limits for Zn 206.200 Recovery = 106.49%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 12/11/12 10:53:33 AM
Data Type: Reprocessed on 12/12/12 9:39:39 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-5.4	-0.042	ug/L	0.6187	-0.042	ug/L	0.6187	>999.9%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	6.1	3.604	ug/L	8.9404	3.604	ug/L	8.9404	248.05%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	8.4	1.614	ug/L	0.3185	1.614	ug/L	0.3185	19.73%
QC value within limits for As 188.979 Recovery = Not calculated								
B	34.3	8.044	ug/L	3.6975	8.044	ug/L	3.6975	45.97%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-1.6	-0.013	ug/L	0.1056	-0.013	ug/L	0.1056	841.71%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-220.9	-0.035	ug/L	0.0242	-0.035	ug/L	0.0242	68.51%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	81.2	6.793	ug/L	1.3593	6.793	ug/L	1.3593	20.01%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	6.1	0.017	ug/L	0.0169	0.017	ug/L	0.0169	98.65%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	5.6	0.084	ug/L	0.1679	0.084	ug/L	0.1679	199.31%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-3.8	-0.027	ug/L	0.0711	-0.027	ug/L	0.0711	260.82%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	7.3	0.081	ug/L	1.1353	0.081	ug/L	1.1353	>999.9%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	96.3	3.732	ug/L	0.5228	3.732	ug/L	0.5228	14.01%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	87.4	34.24	ug/L	65.246	34.24	ug/L	65.246	190.57%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	37.2	1.902	ug/L	0.5171	1.902	ug/L	0.5171	27.19%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-5.1	-0.096	ug/L	0.0674	-0.096	ug/L	0.0674	70.24%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	22.2	0.522	ug/L	0.3127	0.522	ug/L	0.3127	59.84%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	604.1	45.71	ug/L	2.600	45.71	ug/L	2.600	5.69%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-8.8	-0.140	ug/L	0.2312	-0.140	ug/L	0.2312	164.97%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	0.3	0.043	ug/L	0.5897	0.043	ug/L	0.5897	>999.9%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-4.1	-0.283	ug/L	0.3487	-0.283	ug/L	0.3487	123.22%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	10.2	1.631	ug/L	0.3414	1.631	ug/L	0.3414	20.94%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	1.7	0.322	ug/L	1.0121	0.322	ug/L	1.0121	314.03%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	20.3	2.868	ug/L	0.8930	2.868	ug/L	0.8930	31.14%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	157.5	0.157	ug/L	0.1885	0.157	ug/L	0.1885	120.43%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-7.9	-0.182	ug/L	0.1413	-0.182	ug/L	0.1413	77.77%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	6.6	0.993	ug/L	0.1913	0.993	ug/L	0.1913	19.27%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	14.8	0.070	ug/L	0.2975	0.070	ug/L	0.2975	427.88%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-84.7	-0.975	ug/L	0.0666	-0.975	ug/L	0.0666	6.84%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 112
Sample ID: CCV1 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/11/12 7:11:39 PM
Data Type: Reprocessed on 12/12/12 9:41:24 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	58402.9	458.2	ug/L	9.79	458.2	ug/L	9.79	2.14%
QC value within limits for Ag 338.289 Recovery = 91.64%								
Al 308.215	30911.4	18500	ug/L	89.0	18500	ug/L	89.0	0.48%
QC value within limits for Al 308.215 Recovery = 92.48%								
As 188.979	4978.7	951.4	ug/L	4.35	951.4	ug/L	4.35	0.46%
QC value within limits for As 188.979 Recovery = 95.14%								
B	3674.1	918.8	ug/L	7.90	918.8	ug/L	7.90	0.86%
QC value within limits for B Recovery = 91.88%								
Ba 233.527	152045.7	929.0	ug/L	12.30	929.0	ug/L	12.30	1.32%
QC value within limits for Ba 233.527 Recovery = 92.90%								
Be 313.107	6051609.1	969.4	ug/L	10.99	969.4	ug/L	10.99	1.13%
QC value within limits for Be 313.107 Recovery = 96.94%								
Ca 315.887	537594.6	45020	ug/L	409.7	45020	ug/L	409.7	0.91%
QC value within limits for Ca 315.887 Recovery = 90.04%								
Cd 214.440	340461.5	960.5	ug/L	13.18	960.5	ug/L	13.18	1.37%
QC value within limits for Cd 214.440 Recovery = 96.05%								
Co 228.616	64769.2	945.9	ug/L	11.98	945.9	ug/L	11.98	1.27%
QC value within limits for Co 228.616 Recovery = 94.59%								
Cr 267.716	132497.0	947.4	ug/L	11.87	947.4	ug/L	11.87	1.25%
QC value within limits for Cr 267.716 Recovery = 94.74%								
Cu 327.393	84254.2	923.8	ug/L	19.84	923.8	ug/L	19.84	2.15%
QC value within limits for Cu 327.393 Recovery = 92.38%								
Fe 273.955	486811.9	18830	ug/L	233.5	18830	ug/L	233.5	1.24%
QC value within limits for Fe 273.955 Recovery = 94.15%								
K 766.490	45879.9	17960	ug/L	106.1	17960	ug/L	106.1	0.59%
QC value within limits for K 766.490 Recovery = 89.78%								
Mg 285.213	890102.3	45440	ug/L	303.9	45440	ug/L	303.9	0.67%
QC value within limits for Mg 285.213 Recovery = 90.89%								
Mn 257.610	48344.2	906.9	ug/L	5.07	906.9	ug/L	5.07	0.56%
QC value within limits for Mn 257.610 Recovery = 90.69%								
Mo 202.031	40113.3	947.0	ug/L	14.84	947.0	ug/L	14.84	1.57%
QC value within limits for Mo 202.031 Recovery = 94.70%								
Na 589.592	310884.7	23510	ug/L	198.3	23510	ug/L	198.3	0.84%
QC value within limits for Na 589.592 Recovery = 94.06%								
Ni 231.604	60466.8	955.4	ug/L	13.22	955.4	ug/L	13.22	1.38%
QC value within limits for Ni 231.604 Recovery = 95.54%								
P 213.617	32627.5	4697	ug/L	90.1	4697	ug/L	90.1	1.92%
QC value within limits for P 213.617 Recovery = 93.94%								
Pb 220.353	14076.7	969.1	ug/L	9.43	969.1	ug/L	9.43	0.97%
QC value within limits for Pb 220.353 Recovery = 96.91%								
Sb 206.836	6093.0	971.5	ug/L	4.67	971.5	ug/L	4.67	0.48%
QC value within limits for Sb 206.836 Recovery = 97.15%								
Se 196.026	5153.1	967.7	ug/L	3.47	967.7	ug/L	3.47	0.36%
QC value within limits for Se 196.026 Recovery = 96.77%								
Sn 189.927	7024.3	990.6	ug/L	8.38	990.6	ug/L	8.38	0.85%
QC value within limits for Sn 189.927 Recovery = 99.06%								
Sr 421.552	947566.5	941.6	ug/L	8.60	941.6	ug/L	8.60	0.91%
QC value within limits for Sr 421.552 Recovery = 94.16%								
Ti 337.279	40068.6	915.6	ug/L	7.40	915.6	ug/L	7.40	0.81%
QC value within limits for Ti 337.279 Recovery = 91.56%								
Tl 190.801	6223.4	938.0	ug/L	8.18	938.0	ug/L	8.18	0.87%
QC value within limits for Tl 190.801 Recovery = 93.80%								
V 292.402	220466.2	957.9	ug/L	13.74	957.9	ug/L	13.74	1.43%
QC value within limits for V 292.402 Recovery = 95.79%								
Zn 206.200	83848.8	974.5	ug/L	11.75	974.5	ug/L	11.75	1.21%
QC value within limits for Zn 206.200 Recovery = 97.45%								

All analyte(s) passed QC.

Sequence No.: 113
Sample ID: CCB 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/11/12 7:15:08 PM
Data Type: Reprocessed on 12/12/12 9:41:25 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	7.1	0.056	ug/L	1.4422	0.056	ug/L	1.4422	>999.9%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-13.0	-7.808	ug/L	4.1159	-7.808	ug/L	4.1159	52.71%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.6	1.456	ug/L	0.9559	1.456	ug/L	0.9559	65.66%
QC value within limits for As 188.979 Recovery = Not calculated								
B	46.3	10.87	ug/L	1.549	10.87	ug/L	1.549	14.25%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	11.8	0.071	ug/L	0.0605	0.071	ug/L	0.0605	85.02%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-288.1	-0.046	ug/L	0.0123	-0.046	ug/L	0.0123	26.74%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	134.9	11.29	ug/L	1.058	11.29	ug/L	1.058	9.37%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	30.1	0.085	ug/L	0.0555	0.085	ug/L	0.0555	65.47%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-4.2	-0.060	ug/L	0.0458	-0.060	ug/L	0.0458	76.09%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-15.0	-0.108	ug/L	0.0810	-0.108	ug/L	0.0810	74.99%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-82.9	-0.909	ug/L	0.3330	-0.909	ug/L	0.3330	36.63%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	60.4	2.365	ug/L	0.7940	2.365	ug/L	0.7940	33.57%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	54.5	21.36	ug/L	33.162	21.36	ug/L	33.162	155.24%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	67.6	3.449	ug/L	1.1021	3.449	ug/L	1.1021	31.95%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	5.4	0.101	ug/L	0.1599	0.101	ug/L	0.1599	158.23%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	28.2	0.665	ug/L	0.2190	0.665	ug/L	0.2190	32.96%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	1434.4	108.6	ug/L	4.20	108.6	ug/L	4.20	3.87%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-8.1	-0.130	ug/L	0.1491	-0.130	ug/L	0.1491	115.04%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-0.3	-0.047	ug/L	0.7897	-0.047	ug/L	0.7897	>999.9%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-0.7	-0.046	ug/L	0.4319	-0.046	ug/L	0.4319	940.90%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.9	0.617	ug/L	0.5837	0.617	ug/L	0.5837	94.55%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	17.5	3.258	ug/L	1.6813	3.258	ug/L	1.6813	51.61%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	17.7	2.499	ug/L	0.8924	2.499	ug/L	0.8924	35.72%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	248.3	0.247	ug/L	0.0620	0.247	ug/L	0.0620	25.14%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	18.4	0.421	ug/L	0.2241	0.421	ug/L	0.2241	53.30%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	16.7	2.522	ug/L	0.9586	2.522	ug/L	0.9586	38.01%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-48.8	-0.201	ug/L	0.8550	-0.201	ug/L	0.8550	424.97%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-117.9	-1.358	ug/L	0.1353	-1.358	ug/L	0.1353	9.97%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 124
Sample ID: CCV2 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 12/11/12 8:12:25 PM
Data Type: Reprocessed on 12/12/12 9:41:36 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	47287.6	371.0	ug/L	9.54	371.0	ug/L	9.54	2.57%
QC value within limits for Ag 338.289 Recovery = 98.93%								
Al 308.215	24693.9	14770	ug/L	167.3	14770	ug/L	167.3	1.13%
QC value within limits for Al 308.215 Recovery = 98.50%								
As 188.979	3957.9	756.3	ug/L	1.69	756.3	ug/L	1.69	0.22%
QC value within limits for As 188.979 Recovery = 100.85%								
B	2896.8	725.0	ug/L	11.34	725.0	ug/L	11.34	1.56%
QC value within limits for B Recovery = 96.66%								
Ba 233.527	121999.1	745.5	ug/L	11.79	745.5	ug/L	11.79	1.58%
QC value within limits for Ba 233.527 Recovery = 99.40%								
Be 313.107	4825533.8	773.0	ug/L	2.94	773.0	ug/L	2.94	0.38%
QC value within limits for Be 313.107 Recovery = 103.06%								
Ca 315.887	441165.8	36940	ug/L	258.5	36940	ug/L	258.5	0.70%
QC value within limits for Ca 315.887 Recovery = 98.52%								
Cd 214.440	273372.1	771.3	ug/L	10.96	771.3	ug/L	10.96	1.42%
QC value within limits for Cd 214.440 Recovery = 102.83%								
Co 228.616	52273.6	763.5	ug/L	11.95	763.5	ug/L	11.95	1.57%
QC value within limits for Co 228.616 Recovery = 101.80%								
Cr 267.716	106691.3	762.9	ug/L	11.81	762.9	ug/L	11.81	1.55%
QC value within limits for Cr 267.716 Recovery = 101.72%								
Cu 327.393	67733.9	742.7	ug/L	17.00	742.7	ug/L	17.00	2.29%
QC value within limits for Cu 327.393 Recovery = 99.03%								
Fe 273.955	388881.4	15040	ug/L	231.7	15040	ug/L	231.7	1.54%
QC value within limits for Fe 273.955 Recovery = 100.28%								
K 766.490	36461.2	14270	ug/L	46.3	14270	ug/L	46.3	0.32%
QC value within limits for K 766.490 Recovery = 95.13%								
Mg 285.213	725607.8	37040	ug/L	210.8	37040	ug/L	210.8	0.57%
QC value within limits for Mg 285.213 Recovery = 98.78%								
Mn 257.610	38768.4	727.3	ug/L	8.56	727.3	ug/L	8.56	1.18%
QC value within limits for Mn 257.610 Recovery = 96.97%								
Mo 202.031	33367.3	787.6	ug/L	0.37	787.6	ug/L	0.37	0.05%
QC value within limits for Mo 202.031 Recovery = 105.02%								
Na 589.592	254570.1	19260	ug/L	113.0	19260	ug/L	113.0	0.59%
QC value within limits for Na 589.592 Recovery = 102.69%								
Ni 231.604	48776.2	770.7	ug/L	9.50	770.7	ug/L	9.50	1.23%
QC value within limits for Ni 231.604 Recovery = 102.76%								
P 213.617	27984.5	4029	ug/L	131.8	4029	ug/L	131.8	3.27%
QC value within limits for P 213.617 Recovery = 107.43%								
Pb 220.353	11252.5	774.6	ug/L	0.93	774.6	ug/L	0.93	0.12%
QC value within limits for Pb 220.353 Recovery = 103.28%								
Sb 206.836	4838.7	771.5	ug/L	2.54	771.5	ug/L	2.54	0.33%
QC value within limits for Sb 206.836 Recovery = 102.87%								
Se 196.026	4117.1	773.2	ug/L	3.71	773.2	ug/L	3.71	0.48%
QC value within limits for Se 196.026 Recovery = 103.09%								
Sn 189.927	5537.7	780.9	ug/L	6.43	780.9	ug/L	6.43	0.82%
QC value within limits for Sn 189.927 Recovery = 104.13%								
Sr 421.552	767507.1	762.7	ug/L	5.84	762.7	ug/L	5.84	0.77%
QC value within limits for Sr 421.552 Recovery = 101.69%								
Ti 337.279	31903.2	729.0	ug/L	7.88	729.0	ug/L	7.88	1.08%
QC value within limits for Ti 337.279 Recovery = 97.20%								
Tl 190.801	4909.8	740.0	ug/L	1.30	740.0	ug/L	1.30	0.18%
QC value within limits for Tl 190.801 Recovery = 98.67%								
V 292.402	177209.2	770.4	ug/L	11.46	770.4	ug/L	11.46	1.49%
QC value within limits for V 292.402 Recovery = 102.72%								
Zn 206.200	67245.5	781.6	ug/L	10.33	781.6	ug/L	10.33	1.32%
QC value within limits for Zn 206.200 Recovery = 104.21%								

All analyte(s) passed QC.

Sequence No.: 125
Sample ID: CCB 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 12/11/12 8:19:18 PM
Data Type: Reprocessed on 12/12/12 9:41:37 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-97.5	-0.765	ug/L	0.5648	-0.765	ug/L	0.5648	73.85%
QC value less than the lower limit for Ag 338.289 Recovery = Not calculated								
Al 308.215	0.4	0.208	ug/L	1.7155	0.208	ug/L	1.7155	826.66%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	6.9	1.320	ug/L	0.6681	1.320	ug/L	0.6681	50.60%
QC value within limits for As 188.979 Recovery = Not calculated								
B	22.2	5.192	ug/L	0.9713	5.192	ug/L	0.9713	18.71%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	14.7	0.088	ug/L	0.0435	0.088	ug/L	0.0435	49.11%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-354.0	-0.057	ug/L	0.0115	-0.057	ug/L	0.0115	20.22%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	4684.6	392.4	ug/L	4.36	392.4	ug/L	4.36	1.11%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	21.4	0.059	ug/L	0.0617	0.059	ug/L	0.0617	104.30%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	11.8	0.171	ug/L	0.2221	0.171	ug/L	0.2221	129.97%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-25.7	-0.185	ug/L	0.1174	-0.185	ug/L	0.1174	63.64%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-38.0	-0.417	ug/L	0.2439	-0.417	ug/L	0.2439	58.46%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	65.3	2.537	ug/L	0.4462	2.537	ug/L	0.4462	17.59%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	27.7	10.76	ug/L	64.505	10.76	ug/L	64.505	599.73%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	212.7	10.85	ug/L	0.341	10.85	ug/L	0.341	3.14%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-5.5	-0.106	ug/L	0.2002	-0.106	ug/L	0.2002	188.52%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	6.4	0.150	ug/L	0.1729	0.150	ug/L	0.1729	115.49%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	2906.9	220.0	ug/L	3.71	220.0	ug/L	3.71	1.68%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	15.1	0.238	ug/L	0.1635	0.238	ug/L	0.1635	68.56%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	1048.6	151.0	ug/L	19.29	151.0	ug/L	19.29	12.78%
QC value greater than the upper limit for P 213.617 Recovery = Not calculated								
Pb 220.353	-8.6	-0.595	ug/L	0.6310	-0.595	ug/L	0.6310	106.08%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-0.9	-0.137	ug/L	0.4319	-0.137	ug/L	0.4319	314.54%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	3.1	0.564	ug/L	1.3893	0.564	ug/L	1.3893	246.48%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-3.2	-0.455	ug/L	0.1614	-0.455	ug/L	0.1614	35.47%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	292.7	0.288	ug/L	0.1486	0.288	ug/L	0.1486	51.60%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	8.1	0.183	ug/L	0.2103	0.183	ug/L	0.2103	114.88%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	11.3	1.703	ug/L	0.3813	1.703	ug/L	0.3813	22.39%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-26.8	-0.115	ug/L	0.3104	-0.115	ug/L	0.3104	268.79%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-16.4	-0.188	ug/L	0.2232	-0.188	ug/L	0.2232	118.75%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/10/12	12/11/12	#6010B-121210A-AY72368
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/05/12	12/05/12	#6010B-121205A-AY72370

Metals SC-Blank-REG MDLs
Printed: 12/13/12 3:07:04 PM

Sequence No.: 59
Sample ID: 121205A-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 134
Date Collected: 12/05/12 2:12:11 PM
Data Type: Reprocessed on 12/06/12 10:13:20 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121205A-3050-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-72.2	-0.556	ug/L	0.5072	-0.022	mg/kg	0.0203	91.25%
Al 308.215	12.2	7.256	ug/L	3.5931	0.290	mg/kg	0.1437	49.52%
As 188.979	4.6	0.822	ug/L	1.2092	0.033	mg/kg	0.0484	147.14%
B	27.8	6.798	ug/L	2.9508	0.272	mg/kg	0.1180	43.41%
Ba 233.527	34.0	0.196	ug/L	0.0731	0.008	mg/kg	0.0029	37.27%
Be 313.107	-458.6	-0.069	ug/L	0.0119	-0.003	mg/kg	0.0005	17.37%
Ca 315.887	496.9	40.15	ug/L	0.953	1.606	mg/kg	0.0381	2.37%
Cd 214.440	113.4	0.284	ug/L	0.0570	0.011	mg/kg	0.0023	20.11%
Co 228.616	1.4	0.023	ug/L	0.3534	0.001	mg/kg	0.0141	>999.9%
Cr 267.716	99.2	0.647	ug/L	0.1586	0.026	mg/kg	0.0063	24.51%
Cu 327.393	178.0	1.408	ug/L	1.0689	0.056	mg/kg	0.0428	75.91%
Fe 273.955	10.5	0.387	ug/L	0.8541	0.015	mg/kg	0.0342	220.67%
K 766.490	78.0	36.23	ug/L	57.886	1.449	mg/kg	2.3154	159.77%
Mg 285.213	42.8	2.219	ug/L	0.6536	0.089	mg/kg	0.0261	29.45%
Mn 257.610	21.1	0.395	ug/L	0.1938	0.016	mg/kg	0.0078	49.09%
Mo 202.031	67.0	1.461	ug/L	0.2579	0.058	mg/kg	0.0103	17.65%
Na 589.592	231.4	18.14	ug/L	1.451	0.725	mg/kg	0.0580	8.00%
Ni 231.604	-91.7	-1.318	ug/L	0.1020	-0.053	mg/kg	0.0041	7.74%
P 213.617	84.5	11.06	ug/L	1.107	0.442	mg/kg	0.0443	10.01%
Pb 220.353	-28.2	-1.718	ug/L	0.1411	-0.069	mg/kg	0.0056	8.21%
Sb 206.836	-2.8	-0.427	ug/L	0.7139	-0.017	mg/kg	0.0286	167.33%
Se 196.026	3.4	0.578	ug/L	2.7728	0.023	mg/kg	0.1109	479.50%
Sn 189.927	-5.5	-0.644	ug/L	0.3251	-0.026	mg/kg	0.0130	50.51%
Sr 421.552	260.2	0.271	ug/L	0.1835	0.011	mg/kg	0.0073	67.69%
Ti 337.279	1.5	0.036	ug/L	0.5071	0.001	mg/kg	0.0203	>999.9%
Tl 190.801	-4.2	-0.594	ug/L	0.6477	-0.024	mg/kg	0.0259	108.95%
V 292.402	-33.0	-0.105	ug/L	0.1573	-0.004	mg/kg	0.0063	149.42%
Zn 206.200	106.3	1.061	ug/L	0.1474	0.042	mg/kg	0.0059	13.89%

Sequence No.: 114
Sample ID: 121210A-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 48
Date Collected: 12/11/12 7:19:27 PM
Data Type: Reprocessed on 12/12/12 9:41:26 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121210A-3050-BLK

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-114.7	-0.900	ug/L	0.2314	-0.036	mg/kg	0.0093	25.71%
Al 308.215	-21.3	-12.78	ug/L	1.130	-0.511	mg/kg	0.0452	8.84%
As 188.979	4.7	0.902	ug/L	0.1156	0.036	mg/kg	0.0046	12.81%
B	28.5	6.681	ug/L	0.6113	0.267	mg/kg	0.0245	9.15%
Ba 233.527	23.1	0.141	ug/L	0.0388	0.006	mg/kg	0.0016	27.53%
Be 313.107	-252.0	-0.040	ug/L	0.0109	-0.002	mg/kg	0.0004	27.12%
Ca 315.887	196.0	16.42	ug/L	1.159	0.657	mg/kg	0.0464	7.06%
Cd 214.440	67.9	0.192	ug/L	0.0361	0.008	mg/kg	0.0014	18.78%
Co 228.616	-6.3	-0.090	ug/L	0.1134	-0.004	mg/kg	0.0045	125.46%
Cr 267.716	16.2	0.115	ug/L	0.1076	0.005	mg/kg	0.0043	93.34%
Cu 327.393	-81.4	-0.892	ug/L	0.6107	-0.036	mg/kg	0.0244	68.45%
Fe 273.955	62.1	2.418	ug/L	0.9454	0.097	mg/kg	0.0378	39.10%
K 766.490	-90.4	-35.40	ug/L	56.332	-1.416	mg/kg	2.2533	159.14%
Mg 285.213	86.3	4.409	ug/L	0.3681	0.176	mg/kg	0.0147	8.35%
Mn 257.610	-0.6	-0.012	ug/L	0.2125	0.000	mg/kg	0.0085	>999.9%
Mo 202.031	38.4	0.906	ug/L	0.2079	0.036	mg/kg	0.0083	22.96%
Na 589.592	1365.8	103.4	ug/L	8.75	4.136	mg/kg	0.3498	8.46%
Ni 231.604	-40.2	-0.637	ug/L	0.2067	-0.025	mg/kg	0.0083	32.46%
P 213.617	131.4	18.92	ug/L	0.626	0.757	mg/kg	0.0250	3.31%
Pb 220.353	-27.1	-1.868	ug/L	0.3574	-0.075	mg/kg	0.0143	19.13%
Sb 206.836	-0.8	-0.122	ug/L	0.4041	-0.005	mg/kg	0.0162	330.98%
Se 196.026	9.9	1.837	ug/L	3.2051	0.073	mg/kg	0.1282	174.50%
Sn 189.927	-2.3	-0.318	ug/L	1.2132	-0.013	mg/kg	0.0485	381.19%
Sr 421.552	141.8	0.141	ug/L	0.1239	0.006	mg/kg	0.0050	88.15%
Ti 337.279	22.4	0.512	ug/L	0.5893	0.020	mg/kg	0.0236	115.09%
Tl 190.801	-2.0	-0.296	ug/L	0.2686	-0.012	mg/kg	0.0107	90.63%
V 292.402	-9.5	-0.028	ug/L	0.3067	-0.001	mg/kg	0.0123	>999.9%
Zn 206.200	-106.1	-1.220	ug/L	0.1032	-0.049	mg/kg	0.0041	8.46%

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.3	103	80-120	12/05/12	12/05/12	#6010B-121205A-AY72370

Comments: _____

Sequence No.: 60
Sample ID: 121205A-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 135
Date Collected: 12/05/12 2:16:36 PM
Data Type: Reprocessed on 12/06/12 10:13:21 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121205A-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	12819.8	98.70	ug/L	2.630	3.948	mg/kg	0.1052	2.67%
Al 308.215	3336.1	2001	ug/L	11.5	80.06	mg/kg	0.459	0.57%
As 188.979	1333.0	239.0	ug/L	1.10	9.560	mg/kg	0.0440	0.46%
B	1020.5	251.6	ug/L	3.90	10.07	mg/kg	0.156	1.55%
Ba 233.527	42056.3	243.7	ug/L	4.04	9.746	mg/kg	0.1617	1.66%
Be 313.107	329721.9	49.32	ug/L	0.827	1.973	mg/kg	0.0331	1.68%
Ca 315.887	315129.0	25470	ug/L	156.6	1019	mg/kg	6.3	0.61%
Cd 214.440	20283.7	50.59	ug/L	0.213	2.024	mg/kg	0.0085	0.42%
Co 228.616	18810.4	257.4	ug/L	1.02	10.30	mg/kg	0.041	0.40%
Cr 267.716	39782.2	259.8	ug/L	3.82	10.39	mg/kg	0.153	1.47%
Cu 327.393	29894.5	236.4	ug/L	2.83	9.458	mg/kg	0.1130	1.19%
Fe 273.955	28097.3	1001	ug/L	13.2	40.04	mg/kg	0.528	1.32%
K 766.490	10385.1	4823	ug/L	75.0	192.9	mg/kg	3.00	1.56%
Mg 285.213	482977.3	25060	ug/L	127.5	1002	mg/kg	5.1	0.51%
Mn 257.610	14090.2	263.0	ug/L	0.77	10.52	mg/kg	0.031	0.29%
Mo 202.031	12170.5	265.6	ug/L	1.18	10.62	mg/kg	0.047	0.45%
Na 589.592	305873.3	24000	ug/L	113.6	959.9	mg/kg	4.54	0.47%
Ni 231.604	18052.7	258.9	ug/L	1.05	10.36	mg/kg	0.042	0.40%
P 213.617	14766.4	1932	ug/L	7.7	77.26	mg/kg	0.310	0.40%
Pb 220.353	4214.2	257.0	ug/L	1.02	10.28	mg/kg	0.041	0.40%
Sb 206.836	1541.6	239.1	ug/L	1.19	9.562	mg/kg	0.0476	0.50%
Se 196.026	1335.3	229.6	ug/L	0.88	9.183	mg/kg	0.0352	0.38%
Sn 189.927	2311.2	269.8	ug/L	1.33	10.79	mg/kg	0.053	0.49%
Sr 421.552	234987.5	244.9	ug/L	1.06	9.795	mg/kg	0.0425	0.43%
Ti 337.279	10888.2	263.1	ug/L	0.94	10.52	mg/kg	0.038	0.36%
Tl 190.801	1731.9	245.7	ug/L	1.42	9.828	mg/kg	0.0567	0.58%
V 292.402	64120.9	262.1	ug/L	3.64	10.48	mg/kg	0.146	1.39%
Zn 206.200	51385.7	512.2	ug/L	8.56	20.49	mg/kg	0.342	1.67%

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	9.4	94.0	80-120	12/10/12	12/11/12	#6010B-121210A-AY72368

Comments: _____

Sequence No.: 115
Sample ID: 121210A-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 49
Date Collected: 12/11/12 7:23:51 PM
Data Type: Reprocessed on 12/12/12 9:41:27 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121210A-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	11615.6	91.13	ug/L	2.444	3.645	mg/kg	0.0977	2.68%
Al 308.215	2953.3	1768	ug/L	7.1	70.74	mg/kg	0.285	0.40%
As 188.979	1161.6	222.0	ug/L	0.78	8.879	mg/kg	0.0312	0.35%
B	916.1	216.5	ug/L	1.51	8.661	mg/kg	0.0606	0.70%
Ba 233.527	37494.2	231.3	ug/L	0.36	9.251	mg/kg	0.0145	0.16%
Be 313.107	292356.1	46.83	ug/L	0.285	1.873	mg/kg	0.0114	0.61%
Ca 315.887	264781.6	22170	ug/L	210.6	887.0	mg/kg	8.42	0.95%
Cd 214.440	16610.1	46.98	ug/L	0.086	1.879	mg/kg	0.0034	0.18%
Co 228.616	16233.7	237.1	ug/L	0.36	9.484	mg/kg	0.0146	0.15%
Cr 267.716	34974.6	249.9	ug/L	0.36	9.997	mg/kg	0.0143	0.14%
Cu 327.393	20191.1	221.4	ug/L	3.08	8.856	mg/kg	0.1234	1.39%
Fe 273.955	24809.7	943.2	ug/L	0.44	37.73	mg/kg	0.018	0.05%
K 766.490	10642.6	4167	ug/L	72.7	166.7	mg/kg	2.91	1.74%
Mg 285.213	433689.2	22130	ug/L	169.1	885.3	mg/kg	6.77	0.76%
Mn 257.610	12013.9	224.7	ug/L	0.57	8.987	mg/kg	0.0229	0.26%
Mo 202.031	10320.3	243.3	ug/L	0.28	9.732	mg/kg	0.0114	0.12%
Na 589.592	299848.3	22690	ug/L	160.4	907.7	mg/kg	6.42	0.71%
Ni 231.604	15317.7	242.0	ug/L	0.74	9.679	mg/kg	0.0298	0.31%
P 213.617	12666.2	1823	ug/L	5.0	72.93	mg/kg	0.199	0.27%
Pb 220.353	3397.1	233.9	ug/L	1.26	9.354	mg/kg	0.0502	0.54%
Sb 206.836	1409.1	224.7	ug/L	0.25	8.987	mg/kg	0.0099	0.11%
Se 196.026	1156.9	214.7	ug/L	1.91	8.590	mg/kg	0.0766	0.89%
Sn 189.927	1752.6	247.2	ug/L	1.78	9.886	mg/kg	0.0712	0.72%
Sr 421.552	230236.6	228.7	ug/L	1.81	9.149	mg/kg	0.0723	0.79%
Ti 337.279	9990.8	228.1	ug/L	0.40	9.126	mg/kg	0.0160	0.18%
Tl 190.801	1469.7	221.5	ug/L	0.54	8.861	mg/kg	0.0215	0.24%
V 292.402	54852.5	239.4	ug/L	1.32	9.577	mg/kg	0.0528	0.55%
Zn 206.200	40681.0	471.3	ug/L	1.84	18.85	mg/kg	0.073	0.39%

Metals Standards Log Book # 36

050

BC 12/4/12
6020/6020A
(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A

Today's Date 12/04/12
Expires 12/11/12
Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL Di Water
Lot #L12065
20 mL HCL / 2000mL Di Water
Lot #51358
Expires 12/11/12

Internal Standard Mix. Prep 11/29/2012

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1 0% HCL 12/04/12

Standard 3 12/11/12

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	ABS STDS	012512-30926
25 uL	CCV-B	ABS STDS	021312-30928
25 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1 0% HCL 12/04/12

Intermediate-Sb 12/11/12
100 uL of Sb STD (CPI 12A011-30298) in 10 mL of 1% HNO3/1 0% HCL
ICV-Sb 12/11/12
100 uL of Intermediate-Sb in 10 mL of 1% HNO3/1.0% HCL

BC 12/4/12

Standard 2 12/11/12

Amount	STD	
500 uL	Standard 4	12/04/12

Prepared in 50 mL of 1% HNO3/1 0% HCL 12/04/12

Standard 1 12/11/12

Amount	STD	
50 uL	Standard 4	12/04/12

Prepared in 50 mL of 1% HNO3/1 0% HCL 12/04/12

ICP-MS ICV 12/11/12

Amount	STD		
50 uL	QCS ICV A	CPI	11C184-30611
50 uL	QCS ICV B	CPI	11C184-30612

Prepared in 50 mL of 1% HNO3/1 0% HCL 12/04/12

ICSA Prep: 12/11/12

1 mL	ICSA	CPI	121082-31307

Prepared in 5 mL of 1% HNO3/1 0% HCL 12/04/12

ICSAB Prep: 12/11/12

1mL	ICSA	CPI	121082-31307
0 025mL	INT	O2SI	1032370-30265

Prepared in 5 mL of 1% HNO3/1 0% HCL 12/04/12

ICP-LDR 12/11/12

Amount	STD		
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 10 mL of 1% HNO3/1.0% HCL 12/04/12

~~LO 12/3/12~~ (1) LO 12/4/12

LO ~~12/03/12~~
LO (1) 12/04/12

Hg WORKING STANDARD 7470A/7471/245.1

1ml X 10ug/ml Hg STOCK STD. (12/03/12LO)/200ml 1% HNO3 Lot#L12065
1ml X 10ug/ml Hg STOCK ICV (12/03/12LO)/200ml 1% HNO3 Lot#L12065
Final concentration is 50 ug/L. Expires daily

LO 12/4/12

EA 6010B-C
(A)
12-5-12

1%HNO3 / 5%HCl BLK					
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	
100 mL	HCL	EMD	UN1789-265	10/22/12	
20 mL	HNO3	JT BAKER	L10023-266	10/24/12	
Prepared in 2000 ml DI Water					
STD 1 / LDL 6010B/6010C					
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	
0.5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13	
Prepared in 50 ml 1%HNO3/5%HCl					
STD 3 / HDL 6010B/6010C					
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15	
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15	
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15	
Prepared in 100 ml 1%HNO3 / 5%HCl					
STD 2 / CCV1 6010B/6010C/6010C					
AMOUNT	STD	PREP DATE	EXP DATE		
25mL	STD 3	Today	1 week		
25mL	1%HNO3/5%HCl	Today	1 week		
CCV2 6010B/6010C					
AMOUNT	STD	PREP DATE	EXP DATE		
15mL	STD 3	Today	1 week		
25mL	1%HNO3/5%HCl	Today	1 week		

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICSAB				
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICV				
0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 1%HNO3/5%HCl				

EA 12-5-12

~~LO 12/5/12~~

LO 12/05/12

Hg WORKING STANDARDS 7470A/7471/245.1			
Hg WORKING STD	1ml 10ug/ml Hg STOCK STD. 12/03/12 exp: 12/31/12 and 2mL HNO3 JT Baker LOT#L12065 to final vol 200mL with milipore water		final conc: 50ug/L expires daily
Hg WORKING ICV	1ml 10ug/ml Hg STOCK ICV 12/03/12 exp: 12/31/12 and 2mL HNO3 JT Baker LOT#L12065 to final vol 200mL with milipore water		final conc: 50ug/L expires daily

Metals Standards Log Book # 36 Page # 055

EA 12-11-12
6010B-C
(A)

1%HNO3 / 5%HCl BLK					6010B/6010C ICSA				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
100 mL	HCL	EMD	UN1789-265	10/22/12	1mL	Al	CPI	11J015-30092	05/28/13
20 mL	HNO3	JT BAKER	L10023-266	10/24/12	1mL	Ca	CPI	11J031-29989	05/14/13
Prepared in 2000 ml DI Water					1mL	Mg	CPI	11K178-30093	05/28/13
STD 1 / LDL 6010B/6010C					1mL	Fe	O2SI	1030787-30616	05/17/13
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	Prepared in 50 ml 1%HNO3/5%HCl				
0.5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13	6010B/6010C ICSAB				
Prepared in 50 ml 1%HNO3/5%HCl					1mL	Al	CPI	11J015-30092	05/28/13
STD 3 / HDL 6010B/6010C					1mL	Ca	CPI	11J031-29989	05/14/13
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15	1mL	Mg	CPI	11K178-30093	05/28/13
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15	1mL	Fe	O2SI	1030787-30616	05/17/13
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15	0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 100 ml 1%HNO3 / 5%HCl					Prepared in 50 ml 1%HNO3/5%HCl				
STD 2 / CCV1 6010B/6010C/6010C					6010B/6010C ICV				
AMOUNT	STD	PREP DATE	EXP DATE		0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
25mL	STD 3	Today	1 week		0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
25mL	1%HNO3/5%HCl	Today	1 week		Prepared in 50ml 1%HNO3/5%HCl				
CCV2 6010B/6010C									
AMOUNT	STD	PREP DATE	EXP DATE						
15mL	STD 3	Today	1 week						
25mL	1%HNO3/5%HCl	Today	1 week						

EA 12-11-12

EA 121212
12/11/12
12/11/13
NM
6010B-C
(A)

1%HNO3 / 5%HCl BLK					6010B/6010C ICSA				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
100 mL	HCL	EMD	UN1789-265	10/22/12	1mL	Al	CPI	11J015-30092	05/28/13
20 mL	HNO3	JT BAKER	L10023-266	10/24/12	1mL	Ca	CPI	11J031-29989	05/14/13
Prepared in 2000 ml DI Water					1mL	Mg	CPI	11K178-30093	05/28/13
STD 1 / LDL 6010B/6010C					1mL	Fe	O2SI	1030787-30616	05/17/13
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	Prepared in 50 ml 1%HNO3/5%HCl				
0.5 mL	6010 LDL	O2SI	1039165-31300	10/01/13	6010B/6010C ICSAB				
Prepared in 50 ml 1%HNO3/5%HCl					1mL	Al	CPI	11J015-30092	05/28/13
STD 3 / HDL 6010B/6010C					1mL	Ca	CPI	11J031-29989	05/14/13
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15	1mL	Mg	CPI	11K178-30093	05/28/13
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15	1mL	Fe	O2SI	1030787-30616	05/17/13
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15	0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 100 ml 1%HNO3 / 5%HCl					Prepared in 50 ml 1%HNO3/5%HCl				
STD 2 / CCV1 6010B/6010C/6010C					6010B/6010C ICV				
AMOUNT	STD	PREP DATE	EXP DATE		0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
25mL	STD 3	Today	1 week		0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
25mL	1%HNO3/5%HCl	Today	1 week		Prepared in 50ml 1%HNO3/5%HCl				
CCV2 6010B/6010C									
AMOUNT	STD	PREP DATE	EXP DATE						
15mL	STD 3	Today	1 week						
25mL	1%HNO3/5%HCl	Today	1 week						

EA 12-12-12
6010B-C
(A)

IEC SPIKES EACH PREPARED SEPARATELY IN 10mL 1% HNO3 / 5% HCl PREP:TODAY, EXP 1 WEEK

STD		AMOUNT (mL)	CONC (ug/mL)	MANUFACTURER	LOT	EXP DATE	CONC Final (ug/mL)
Al		0.2	10000	CPI	11J015-30092	05/28/13	200
Ca		0.2	10000	CPI	11J031-29989	05/14/13	200
Fe		0.2	10000	O2SI	1030787-30616	05/17/13	200
Mg		0.2	10000	CPI	11K178-30093	05/28/13	200
Na		0.2	10000	O2SI	1036027-30752	11/03/13	200
K		2	1000	O2SI	1032437-30266	07/19/13	200
Co		1	1000	CPI	11K232-30304	7/26/13	100
Cr		1	1000	CPI	11G081-29343	02/05/13	100
Cu		1	1000	CPI	11J085-30302	07/26/13	100
Mo		1	1000	CPI	11H133-31306	03/11/14	100
Ni		1	1000	CPI	12B006-30771	11/16/13	100
Ti		1	1000	CPI	11K007-30299	07/26/13	100
Tl		1	1000	CPI	12B176-30772	11/16/13	100
V		1	1000	CPI	12C220-30773	11/16/13	100
Zn		1	1000	CPI	11K239-30303	07/26/13	100
Mn		1	1000	CPI	12F026-31304	03/11/14	100

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121210A **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 1039704-31514		
Spiked ID 2	LCSW LOT# 1039705-31515		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	12/10/12 9:00:00 AM
Witnessed By	RJS	Date:	12/10/12 9:00:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	12/10/12 15:00

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121210A Blk				2.50g	100mL	12/10/12 9:00	equip: Modblock4
2	121210A LCS		1mL	1+2	2.50g	100mL	12/10/12 9:00	equip: Modblock4
3	AY72095	AY72095M01			2.02g	100mL	12/10/12 9:00	equip: Modblock4
4	AY72098	AY72098M01			2.04g	100mL	12/10/12 9:00	equip: Modblock4
5	AY72101	AY72101M01			2.13g	100mL	12/10/12 9:00	equip: Modblock4
6	AY72185	AY72185M01			2.00g	100mL	12/10/12 9:00	equip: Modblock4
7	AY72188	AY72188M01			2.06g	100mL	12/10/12 9:00	equip: Modblock4
8	AY72368	AY72368M01			2.00g	100mL	12/10/12 9:00	equip: Modblock4

Solvent and Lot#
1:1 HNO3 11-9-12
HNO3 J.T.B. L10023 0281
H2O2 EMD K20J00 0254
HCL EMD Lot# 4112030 0282

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	EA
Date	12-10-12
Time	15:00
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	12/10/12 9:39:37 AM

Reviewed By: EA **Date:** 12-10-12

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121205A **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 1039704-31514		
Spiked ID 2	LCSW LOT# 1039705-31515		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	12/05/12 8:10:00 AM
Witnessed By	BC	Date:	12/05/12 8:10:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	12/05/12 14:00

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121205A Blk				2.50g	100mL	12/05/12 8:10	equip: Modblock4
2	121205A LCS		1mL	1+2	2.50g	100mL	12/05/12 8:10	equip: Modblock4
3	AY71797	AY71797M01			1.93g	100mL	12/05/12 8:10	equip: Modblock4
4	AY71800	AY71800M01			1.62g	100mL	12/05/12 8:10	equip: Modblock4
5	AY71803	AY71803M01			1.42g	100mL	12/05/12 8:10	equip: Modblock4
6	AY71930	AY71930M01			2.54g	100mL	12/05/12 8:10	equip: Modblock4
7	AY71933	AY71933M01			2.18g	100mL	12/05/12 8:10	equip: Modblock4
8	AY72186	AY72186M01			2.56g	100mL	12/05/12 8:10	equip: Modblock4
9	AY72187	AY72187M01			2.54g	100mL	12/05/12 8:10	equip: Modblock4
10	AY72189	AY72189M01			2.57g	100mL	12/05/12 8:10	equip: Modblock4
11	AY72190	AY72190M01			2.44g	100mL	12/05/12 8:10	equip: Modblock4
12	AY72369	AY72369M01			2.45g	100mL	12/05/12 8:10	equip: Modblock4
13	AY72370	AY72370M01			2.50g	100mL	12/05/12 8:10	equip: Modblock4
14	AY72370 MS	AY72370M01	2mL	1+2	2.50g	100mL	12/05/12 8:10	equip: Modblock4
15	AY72370 MSD	AY72370M01	2mL	1+2	2.50g	100mL	12/05/12 8:10	equip: Modblock4

Solvent and Lot#
:1 HNO3 11-9-12
HNO3 J.T.B. L10023 0280
I2O2 J.T.B K20J00 0254
ICL EMD Lot# 4112030 0278

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	SA
Date	12-5-12
Time	14:00
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	12/05/12 10:48:24 AM

Reviewed By: SA **Date:** 12-5-12

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	05 Dec 2012	09:41	CalBlk 121205EA I:PB O:EA		121205A6010	1.
2	05 Dec 2012	09:46	STD 1 121205EA I:PB O:EA		121205A6010	1.
3	05 Dec 2012	09:50	STD 2 121205EA I:PB O:EA		121205A6010	1.
4	05 Dec 2012	09:53	STD 3 121205EA I:PB O:EA		121205A6010	1.
5	05 Dec 2012	09:57	ICV 121205EA I:PB O:EA		121205A6010	1.
6	05 Dec 2012	10:00	ICB 121205EA I:PB O:EA		121205A6010	1.
8	05 Dec 2012	10:13	ICSA 121205EA I:PB O:EA		121205A6010	1.
9	05 Dec 2012	10:18	ICSAB 121205EA I:PB O:EA		121205A6010	1.
10	05 Dec 2012	10:22	CCV1 121205EA I:PB O:EA		121205A6010	1.
11	05 Dec 2012	10:26	CCB 121205EA I:PB O:EA		121205A6010	1.
57	05 Dec 2012	14:03	CCV1 121205EA I:PB O:EA		121205A6010	1.
58	05 Dec 2012	14:07	CCB 121205EA I:PB O:EA		121205A6010	1.
59	05 Dec 2012	14:12	121205A-3050-BLK		121205A6010	1.
60	05 Dec 2012	14:16	121205A-3050-LCS		121205A6010	1.
67	05 Dec 2012	14:56	AY72186M01		121205A6010	1.
68	05 Dec 2012	15:23	CCV2 121205EA I:PB O:EA		121205A6010	1.
69	05 Dec 2012	15:29	CCB 121205EA I:PB O:EA		121205A6010	1.
71	05 Dec 2012	15:40	AY72189M01		121205A6010	1.
79	05 Dec 2012	16:25	CCV1 121205EA I:PB O:EA		121205A6010	1.
80	05 Dec 2012	16:37	CCB 121205EA I:PB O:EA		121205A6010	1.

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	11 Dec 2012	10:06	CalBlk 121211EA I:PB O:EA		121211A6010	1.
2	11 Dec 2012	10:10	STD 1 121211EA I:PB O:EA		121211A6010	1.
3	11 Dec 2012	10:14	STD 2 121211EA I:PB O:EA		121211A6010	1.
4	11 Dec 2012	10:18	STD 3 121211EA I:PB O:EA		121211A6010	1.
5	11 Dec 2012	10:26	ICV 121211EA I:PB O:EA		121211A6010	1.
6	11 Dec 2012	10:30	ICB 121211EA I:PB O:EA		121211A6010	1.
8	11 Dec 2012	10:39	ICSA 121211EA I:PB O:EA		121211A6010	1.
9	11 Dec 2012	10:44	ICSAB 121211EA I:PB O:EA		121211A6010	1.
10	11 Dec 2012	10:48	CCV1 121211EA I:PB O:EA		121211A6010	1.
11	11 Dec 2012	10:53	CCB 121211EA I:PB O:EA		121211A6010	1.
112	11 Dec 2012	19:11	CCV1 121211EA I:PB O:EA		121211A6010	1.
113	11 Dec 2012	19:15	CCB 121211EA I:PB O:EA		121211A6010	1.
114	11 Dec 2012	19:19	121210A-3050-BLK		121211A6010	1.
115	11 Dec 2012	19:23	121210A-3050-LCS		121211A6010	1.
119	11 Dec 2012	19:45	AY72185M01		121211A6010	1.
120	11 Dec 2012	19:50	AY72188M01		121211A6010	1.
124	11 Dec 2012	20:12	CCV2 121211EA I:PB O:EA		121211A6010	1.
125	11 Dec 2012	20:19	CCB 121211EA I:PB O:EA		121211A6010	1.

Wetlab Results

ARF: 69366

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
APPL ID: AY72186	-Client Sample ID: GT12030L		-Sample Collection Date: 11/24/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	73.8	2.0	%	12/06/12	12/07/12
APPL ID: AY72189	-Client Sample ID: GT12031L		-Sample Collection Date: 11/24/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	73.1	2.0	%	12/06/12	12/07/12

Printed: 12/14/12 12:50:33 PM

WETLAB

Sample/Sample Duplicate Results

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Project: 748350.02000 CSSA

Sample ID: AY72186
Client ID: GT12030L

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

ARF: 69366

Method	Analyte	Sample ID	Sample Result	Sample Dup Result	RPD	RPD Max	PQL	Units	Sample Extract Date	Sample Analysis Date	Sample Dup Extract Date	Sample Dup Analysis Date
CLP MOIS	MOISTURE	AY72186	73.8	73.8	0.0	20	2.0	%	12/06/12	12/07/12	12/06/12	12/07/12

Printed: 12/14/12 12:50:24 PM

% Moisture

Batch: QCG 121206-M004577

Method: CLP 4.0

Date: 12/06/12 15:55

Sample	Container	Pan (g)	Pan+Wet (g)	Pan+Dry 1 (g)	Pan+Dry 2 (g)	Moisture (%)	Comments
AY72369	m01	0.8348 12/06/12 15:55	7.2095 12/06/12 15:56	2.7794 12/07/12 08:02	2.7794 12/07/12 08:02	69.495	ay72369m01
AY72189	m01	0.8362 12/06/12 15:53	7.9391 12/06/12 15:55	2.7482 12/07/12 08:02	2.7481 12/07/12 08:02	73.083	ay72189m01
AY72186D	m01	0.8381 12/06/12 15:52	7.3523 12/06/12 15:53	2.5457 12/07/12 08:02	2.5457 12/07/12 08:02	73.786	ay72186m01
AY72186	m01	0.8381 12/06/12 15:51	7.0357 12/06/12 15:52	2.4644 12/07/12 08:02	2.4643 12/07/12 08:02	73.761	ay72186m01

Date/Time InOven@104°C	Date/Time OutOven@104°C	Date/Time InOven@104°C	Date/Time OutOven@104°C
12/06/12 3:57:00 PM			12/07/12 8:02:00 AM

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
12-5-12	CK	Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0001 g	19.9800	20.0200	
		Mettler AT200	50g	50.0003 g	49.9500	50.0500	
		Mettler AT200	100g	100.0006 g	99.9000	100.1000	
		Mettler AT200	150g	150.0009 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	999.98 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
12/6/12	BB						Yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0001 g	19.9800	20.0200	
		Mettler AT200	50g	50.0002 g	49.9500	50.0500	
		Mettler AT200	100g	100.0004 g	99.9000	100.1000	
		Mettler AT200	150g	150.0006 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.01 g	1960.00	2040.00	
12/7/12	BB						Yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0001 g	19.9800	20.0200	
		Mettler AT200	50g	50.0002 g	49.9500	50.0500	
		Mettler AT200	100g	100.0003 g	99.9000	100.1000	
		Mettler AT200	150g	150.0005 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.01 g	1960.00	2040.00	
12/10/12	BB						Yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0002 g	19.9800	20.0200	
		Mettler AT200	50g	50.0003 g	49.9500	50.0500	
		Mettler AT200	100g	100.0003 g	99.9000	100.1000	
		Mettler AT200	150g	150.0006 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.02 g	1960.00	2040.00	

Laboratory Report

Parsons

Project #: 748350.02000 CSSA

ARF: 69367

Samples collected: November 24, 2012

APPL, Inc.

Data Validatable Package

for

Project #: 748350.02000 CSSA

ARF 69367

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CASE NARRATIVE

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

EPA Method 6010B
Lead
Case Narrative

ARF: 69367

Project: 748350.02000 CSSA

California State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Texas Certificate Number: T104704242-10-3

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

The samples were received November 27, 2012, at 2.0°C. The samples were assigned Analytical Request Form (ARF) number 69367. The sample numbers and requested analyses were compared to the chains of custody. No exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
GT12030M	AY72187	MISC	11/24/12	11/27/12
GT12031M	AY72190	MISC	11/24/12	11/27/12

Percent moisture was determined using CLP 4.0.

Digestion Information:

The meat samples were frozen and homogenized according to APPL's SOP PRE003. An aliquot of the homogenized samples were digested according to EPA method 3050B. Since the laboratory was unable to obtain a similar clean matrix, the blank and the LCS were digested according to APPL's SOP PRE3050B. No other exception was encountered. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed according to EPA method 6010B using a Perkin Elmer Optima 5300DV ICP.

Calibrations:

Calibrations were performed according to the method for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard. All other calibration acceptance criteria were met.

Blanks:

No target metal was detected above the reporting limit (RL) in the method blank.

Spikes:

Laboratory Control Spike (LCS), post-digestion spike (PDS), and dilution test were used for quality assurance. All LCS acceptance criteria were met.

Sample GT12032M (APPL SDG #69413) was selected by the laboratory as the QC sample for analytical batch. All dilution test and PDS recoveries are reported in APPL report #69413.

Summary:

No analytical exception is noted. The data generated are acceptable.

CERTIFICATION

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. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

12-10-12

Sharon Dehmlow, Laboratory Director / Date

Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other - explain
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel.
Y	Percent difference between primary and confirmation column > 40%

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 69367

Client: **Parsons**
Address: **8000 Centre Park Drive Ste 200**
Austin, TX 78754
Attn: **Tammy Chang**
Phone: **512-719-6092** Fax: **512-719-6099**
Job: **748350.02000 CSSA**
PO #: **748350.30002 (prime *G012)**
Chain of Custody (Y/N): **Y** # **112612APPFA**
RAD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **7 DAYS**

Received by: **WLA**
Date Received: **11/27/12** Time: **11:38**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-6**
Chest Temp(s): **2.0°C**
Color: **A_FREZ**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Diane Anderson** mp
QC Report Type: **DVP4/AFCEE/ERPIMS/TX**
Due Date: **12/04/12**

Comments:
Prelim muscle (meat) data due in 7 calendar days; final report due in 14 calendar days.
pdf ARF to Tammy & Pam; send 1 DVP3 HC & send DVP3 & DVP4 on CD to Tammy.

Case Narrative. CSSA QAPP. Only report MS/MSD when requested.
Report results on APPL forms: U to the RL-no J values; report results in wet weight (without moisture
Wait to do moisture analysis after metals analysis.
EDD: ERPIMS 4 Lab PC4 checked TXF to Pamela.Ford@parsons.com

11-28 Sent ARF

Sample Distribution:
Metals: 2-$6010BDODS(Pb)
Wetlab: 2-MOIST
Other: 2-_M3050

Charges:

Invoice To:
PARSONS GOV'T SERV.
8000 Centre Park Drive Ste 200
Austin, TX 78754-5140
Attn: Ellen Felfe

	Client ID	APPL ID	Sampled	Analyses Requested
1.	GT12030M	AY72187M	11/24/12 08:30	$6010BDODS(Pb), MOIST
2.	GT12031M	AY72190M	11/24/12 09:00	$6010BDODS(Pb), MOIST

Note: All times, excluding sample collection times, are Pacific Time Zone unless noted otherwise. Collection times are in: -6 UTC

APPL Sample Receipt Form

ARF# **69367**

Sample	Container Type	Count	pH
AY72187	35 Plastic Bag	1	NA
AY72190	35 Plastic Bag	1	NA

Sample	Container Type	Count	pH

Camp Stanley Storage Activity Chain Of Custody

69366
69367 2.0°C

COC ID:	112612APPFA	Relinquish_Date:	11/26/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF
Job Number:	748350.02000	Relinquish_Time:	2:00 PM	Carrier:	FedEx
Creation Date:	11/26/2012	Collection Team:	SE	Airbill Carrier:	876436444112
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): Sam Elliott

LOCID: **GT12030B** LOGDATE: **11/24/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **8:30** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12030B_112412_N0830** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12030L** LOGDATE: **11/24/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **8:30** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12030L_112412_N0830** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12030M** LOGDATE: **11/24/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **8:30** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12030M_112412_N0830** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12031B** LOGDATE: **11/24/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **9:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12031B_112412_N0900** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12031L** LOGDATE: **11/24/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **9:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12031L_112412_N0900** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12031M** LOGDATE: **11/24/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **9:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12031M_112412_N0900** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

Relinquished by: S. Elliott Date 11/26/12 Time 1400
Recieved by: Yang Zu Date 11/27/12 Time 11:38

Relinquished by:_____ Date_____ Time____
Recieved by:_____ Date_____ Time____

Relinquished by:_____ Date_____ Time____
Recieved by:_____ Date_____ Time____

COOLER RECEIPT FORM

1) Project: 748350.02000 CSSA Date Received: 11/27/12

2) Coolers: Number of Coolers: 1

3) YES NO Were coolers and samples screened for radioactivity?

4) YES NO Were custody seals on outside of cooler? How many? 1 Date on seal? 11/26/12

5) Name on seal? See Label

6) YES NO NA Were custody seals unbroken and intact at the time of arrival?

7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex

8) Shipping slip numbers: 1) 8764 3644 4112 2) 3)

9) YES NO NA Was the shipping slip scanned into the database?

10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): 2 ziploc in wet ice

12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?

13) YES NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: JS297 Correction factor: 0

15) Cooler temp(s): 1) 2.0°C 2) 3) 4) 5) 6) 7) 8)

Chain of custody:

16) YES NO Was a chain of custody received?

17) YES NO Were the custody papers signed in the appropriate places?

18) YES NO Was the project identifiable from custody papers?

19) YES NO Did the chain of custody include date and time of sampling?

20) YES NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) YES NO Were container labels in good condition?

22) YES NO Was the client ID on the label?

23) YES NO Was the date of sampling on the label?

24) YES NO Was the time of sampling on the label?

25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?

27) YES NO Did all containers arrive unbroken?

28) YES NO Was there any leakage from samples?

29) YES NO Were any of the lids cracked or broken?

30) YES NO Were correct containers used for the tests indicated?

31) YES NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea:

Smaller than a pea:

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO NA Unpreserved VOA Vials received?

38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

Lab notified if pH was not adequate:

Deficiencies:

Signature of personnel receiving samples: Yang Xu Second reviewer: Will Galbraith

Signature of project manager notified: Date and Time of notification:

Name of client notified: Date and Time of notification:

Information given to client:

by whom (Initials):

Initials SL Date 11/26/12

CUSTODY SEAL

APPL, Inc. (559) 275-2175

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/05/12	12/05/12	#6010B-121205A-AY72370

Metals SC-Blank-REG MDLs
Printed: 12/07/12 8:30:40 AM

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.3	103	80-120	12/05/12	12/05/12	#6010B-121205A-AY72370

Comments: _____

METALS
Sample Data

APPL, INC.

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Project: 748350.02000 CSSA

Sample ID: GT12030M

Sample Collection Date: 11/24/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69367

APPL ID: AY72187

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	12/05/12	12/05/12

Printed: 12/07/12 8:30:37 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 70
Sample ID: AY72187M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.54 g
Dilution:

Autosampler Location: 142
Date Collected: 12/05/12 3:34:37 PM
Data Type: Reprocessed on 12/06/12 10:13:33 AM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72187M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	28.1	0.216	ug/L	0.7007	0.009	mg/kg	0.0276	324.46%
Al 308.215	20.4	12.41	ug/L	2.948	0.489	mg/kg	0.1161	23.75%
As 188.979	7.7	1.377	ug/L	1.7277	0.054	mg/kg	0.0680	125.46%
B	61.8	17.77	ug/L	0.508	0.700	mg/kg	0.0200	2.86%
Ba 233.527	385.4	1.715	ug/L	0.0262	0.068	mg/kg	0.0010	1.53%
Be 313.107	-65.4	-0.010	ug/L	0.0113	0.000	mg/kg	0.0004	115.19%
Ca 315.887	16869.7	1358	ug/L	6.8	53.45	mg/kg	0.267	0.50%
Cd 214.440	114.1	0.190	ug/L	0.0379	0.007	mg/kg	0.0015	20.01%
Co 228.616	-1.2	-0.085	ug/L	0.1565	-0.003	mg/kg	0.0062	184.59%
Cr 267.716	388.2	2.540	ug/L	0.1456	0.100	mg/kg	0.0057	5.73%
Cu 327.393	5263.9	41.63	ug/L	2.091	1.639	mg/kg	0.0823	5.02%
Fe 273.955	20446.0	741.6	ug/L	9.73	29.20	mg/kg	0.383	1.31%
K 766.490	186552.0	86680	ug/L	471.5	3413	mg/kg	18.6	0.54%
Mg 285.213	121165.3	6286	ug/L	30.4	247.5	mg/kg	1.20	0.48%
Mn 257.610	264.2	4.636	ug/L	0.1677	0.183	mg/kg	0.0066	3.62%
Mo 202.031	57.0	1.504	ug/L	0.2358	0.059	mg/kg	0.0093	15.68%
Na 589.592	121915.4	9533	ug/L	48.6	375.3	mg/kg	1.91	0.51%
Ni 231.604	-56.9	-0.894	ug/L	0.0958	-0.035	mg/kg	0.0038	10.71%
P 213.617	372037.0	48660	ug/L	756.2	1916	mg/kg	29.8	1.55%
Pb 220.353	-7.8	-0.473	ug/L	0.4244	-0.019	mg/kg	0.0167	89.66%
Sb 206.836	11.6	1.806	ug/L	0.5928	0.071	mg/kg	0.0233	32.82%
Se 196.026	95.4	14.25	ug/L	4.087	0.561	mg/kg	0.1609	28.67%
Sn 189.927	-52.8	-6.161	ug/L	0.4259	-0.243	mg/kg	0.0168	6.91%
Sr 421.552	2733.8	3.084	ug/L	0.1243	0.121	mg/kg	0.0049	4.03%
Ti 337.279	52.6	0.817	ug/L	0.1141	0.032	mg/kg	0.0045	13.97%
Tl 190.801	-1.3	-0.187	ug/L	0.1889	-0.007	mg/kg	0.0074	101.03%
V 292.402	-23.9	-0.363	ug/L	0.6795	-0.014	mg/kg	0.0268	187.19%
Zn 206.200	140157.6	1390	ug/L	15.3	54.72	mg/kg	0.603	1.10%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12031M
Sample Collection Date: 11/24/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69367
APPL ID: AY72190

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	12/05/12	12/05/12

Printed: 12/07/12 8:30:37 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 72
Sample ID: AY72190M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.44 g
Dilution:

Autosampler Location: 144
Date Collected: 12/05/12 3:45:28 PM
Data Type: Reprocessed on 12/06/12 10:13:36 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72190M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-125.5	-0.966	ug/L	0.3443	-0.040	mg/kg	0.0141	35.63%
Al 308.215	41.8	25.14	ug/L	7.813	1.030	mg/kg	0.3202	31.07%
As 188.979	-1.0	-0.184	ug/L	0.6587	-0.008	mg/kg	0.0270	357.65%
B	42.1	13.18	ug/L	1.181	0.540	mg/kg	0.0484	8.96%
Ba 233.527	386.3	1.679	ug/L	0.0673	0.069	mg/kg	0.0028	4.01%
Be 313.107	65.8	0.010	ug/L	0.0091	0.000	mg/kg	0.0004	92.02%
Ca 315.887	20887.0	1683	ug/L	4.5	68.96	mg/kg	0.185	0.27%
Cd 214.440	110.5	0.191	ug/L	0.0259	0.008	mg/kg	0.0011	13.54%
Co 228.616	-4.8	-0.128	ug/L	0.3214	-0.005	mg/kg	0.0132	251.73%
Cr 267.716	295.9	1.936	ug/L	0.0800	0.079	mg/kg	0.0033	4.13%
Cu 327.393	5534.1	43.77	ug/L	0.426	1.794	mg/kg	0.0174	0.97%
Fe 273.955	22793.4	827.2	ug/L	10.96	33.90	mg/kg	0.449	1.33%
K 766.490	174531.2	81090	ug/L	657.9	3323	mg/kg	27.0	0.81%
Mg 285.213	126326.6	6554	ug/L	34.7	268.6	mg/kg	1.42	0.53%
Mn 257.610	330.3	5.872	ug/L	0.1610	0.241	mg/kg	0.0066	2.74%
Mo 202.031	53.9	1.332	ug/L	0.3169	0.055	mg/kg	0.0130	23.80%
Na 589.592	85746.2	6696	ug/L	36.5	274.4	mg/kg	1.50	0.55%
Ni 231.604	-52.9	-0.835	ug/L	0.1364	-0.034	mg/kg	0.0056	16.34%
P 213.617	356093.4	46580	ug/L	849.9	1909	mg/kg	34.8	1.82%
Pb 220.353	-22.6	-1.379	ug/L	0.6261	-0.057	mg/kg	0.0257	45.41%
Sb 206.836	0.6	0.091	ug/L	0.2388	0.004	mg/kg	0.0098	263.60%
Se 196.026	85.1	12.74	ug/L	3.966	0.522	mg/kg	0.1625	31.13%
Sn 189.927	-51.8	-6.045	ug/L	0.7933	-0.248	mg/kg	0.0325	13.12%
Sr 421.552	2031.7	2.338	ug/L	0.3746	0.096	mg/kg	0.0154	16.02%
Ti 337.279	48.7	0.747	ug/L	0.1090	0.031	mg/kg	0.0045	14.59%
Tl 190.801	-4.3	-0.612	ug/L	0.8856	-0.025	mg/kg	0.0363	144.64%
V 292.402	42.9	-0.086	ug/L	0.3030	-0.004	mg/kg	0.0124	353.48%
Zn 206.200	46504.1	461.7	ug/L	5.06	18.92	mg/kg	0.207	1.10%

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69367 SDG: 69367
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 12/05/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:57	%R(1)	True CCV1	Found 10:22	%R(1)	True CCV1	Found 14:03	%R(1)	
Lead (Pb)	1000	1048	105	1000	1063	106	1000	1037	104	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69367 SDG: 69367
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 12/05/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:57	%R(1)	True CCV2	Found 15:23	%R(1)	True CCV1	Found 16:25	%R(1)	
Lead (Pb)	1000	1048	105	750	804.9	107	1000	1028	103	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69367 SDG: 69367

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 12/05/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C			
	10:00		10:26		14:07		15:29		14:12				
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U	P		

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69367 SDG: 69367

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 12/05/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	10:00		16:37						14:12		
Lead (Pb)	5.00	U	5.00	U					.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69367 SDG: 69367

ICP ID Number: Phoebe ICS Source: Environmental Express

Analysis Date: 12/05/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 10:13	Sol AB 10:18	%R(1)
Aluminum (Al)	200000	200000	190700	190500	95.3
Calcium (Ca)	200000	200000	192600	192400	96.2
Iron (Fe)	200000	200000	178100	176300	88.2
Magnesium (Mg)	200000	200000	187100	187200	93.6
Lead (Pb)		1000	1.078	941.2	94.1

(1) Control Limits: Metals 80-120

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 121205A6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1
Sample ID: CalBlk 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 9:41:54 AM
Data Type: Reprocessed on 12/06/12 10:12:12 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CalBlk 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-285.5	98.06	34.35%	[0.00]	ug/L
Al 308.215	131.7	11.54	8.76%	[0.00]	ug/L
As 188.979	-3.2	5.27	163.63%	[0.00]	ug/L
B	3.8	13.03	342.06%	[0.00]	ug/L
Ba 233.527	155.1	13.37	8.62%	[0.00]	ug/L
Be 313.107	2029.5	101.46	5.00%	[0.00]	ug/L
Ca 315.887	-289.3	32.18	11.13%	[0.00]	ug/L
Cd 214.440	462.2	19.06	4.12%	[0.00]	ug/L
Co 228.616	96.5	20.64	21.38%	[0.00]	ug/L
Cr 267.716	857.1	12.89	1.50%	[0.00]	ug/L
Cu 327.393	-819.1	107.73	13.15%	[0.00]	ug/L
Fe 273.955	294.3	17.50	5.94%	[0.00]	ug/L
K 766.490	-496.4	39.07	7.87%	[0.00]	ug/L
Mg 285.213	-151.3	7.50	4.96%	[0.00]	ug/L
Mn 257.610	-74.2	5.40	7.28%	[0.00]	ug/L
Mo 202.031	177.7	9.21	5.18%	[0.00]	ug/L
Na 589.592	-148.2	134.40	90.68%	[0.00]	ug/L
Ni 231.604	-156.9	10.43	6.65%	[0.00]	ug/L
P 213.617	68.9	7.90	11.46%	[0.00]	ug/L
Pb 220.353	-28.4	3.93	13.83%	[0.00]	ug/L
Sb 206.836	-5.5	2.73	50.04%	[0.00]	ug/L
Se 196.026	-23.0	9.37	40.78%	[0.00]	ug/L
Sn 189.927	-14.3	3.95	27.72%	[0.00]	ug/L
Sr 421.552	873.4	132.64	15.19%	[0.00]	ug/L
Ti 337.279	-464.2	13.18	2.84%	[0.00]	ug/L
Tl 190.801	-13.0	1.44	11.05%	[0.00]	ug/L
V 292.402	-729.2	116.65	16.00%	[0.00]	ug/L
Zn 206.200	-538.5	10.20	1.89%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 12/05/12 9:46:14 AM
Data Type: Reprocessed on 12/06/12 10:12:13 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	71.4	28.31	39.67%	[1.00]	ug/L
Al 308.215	172.0	10.58	6.15%	[100.00]	ug/L
As 188.979	20.7	1.32	6.41%	[3.50]	ug/L
B	214.2	4.25	1.99%	[50.00]	ug/L
Ba 233.527	920.2	12.86	1.40%	[5.00]	ug/L
Be 313.107	14127.7	101.16	0.72%	[2.00]	ug/L
Ca 315.887	1266.2	23.19	1.83%	[100.00]	ug/L
Cd 214.440	2245.4	21.61	0.96%	[5.00]	ug/L
Co 228.616	406.5	1.33	0.33%	[5.00]	ug/L
Cr 267.716	851.8	12.64	1.48%	[5.00]	ug/L
Cu 327.393	812.3	179.51	22.10%	[5.00]	ug/L
Fe 273.955	1477.8	8.84	0.60%	[50.00]	ug/L
K 766.490	2086.1	57.22	2.74%	[1000.00]	ug/L
Mg 285.213	1062.2	5.76	0.54%	[50]	ug/L
Mn 257.610	287.6	10.85	3.77%	[5.00]	ug/L
Mo 202.031	251.9	13.59	5.39%	[5.00]	ug/L
Na 589.592	13206.9	42.86	0.32%	[1000.00]	ug/L
Ni 231.604	418.5	22.79	5.45%	[5.00]	ug/L
P 213.617	189.6	9.35	4.93%	[25.00]	ug/L
Pb 220.353	55.7	8.70	15.62%	[3.00]	ug/L
Sb 206.836	35.5	1.88	5.30%	[5.00]	ug/L
Se 196.026	29.3	3.53	12.07%	[5.00]	ug/L
Sn 189.927	43.6	4.72	10.85%	[5.00]	ug/L
Sr 421.552	5427.7	89.16	1.64%	[5.00]	ug/L
Ti 337.279	211.7	3.41	1.61%	[5.00]	ug/L
Tl 190.801	38.2	6.13	16.06%	[5.00]	ug/L
V 292.402	1463.6	152.11	10.39%	[5.00]	ug/L
Zn 206.200	2327.6	19.81	0.85%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 9:50:40 AM
Data Type: Reprocessed on 12/06/12 10:12:16 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	65369.6	460.16	0.70%	[500.0]	ug/L
Al 308.215	33816.5	230.58	0.68%	[20000.00]	ug/L
As 188.979	5632.1	39.14	0.70%	[1000.00]	ug/L
B	4114.9	53.17	1.29%	[1000.00]	ug/L
Ba 233.527	175255.0	233.84	0.13%	[1000.00]	ug/L
Be 313.107	6881288.1	29273.50	0.43%	[1000.00]	ug/L
Ca 315.887	622046.8	2722.65	0.44%	[50000]	ug/L
Cd 214.440	413333.8	609.20	0.15%	[1000.00]	ug/L
Co 228.616	74338.4	202.11	0.27%	[1000.00]	ug/L
Cr 267.716	156313.2	297.32	0.19%	[1000.00]	ug/L
Cu 327.393	124193.6	777.04	0.63%	[1000.00]	ug/L
Fe 273.955	560254.1	492.21	0.09%	[20000]	ug/L
K 766.490	42887.8	751.83	1.75%	[20000]	ug/L
Mg 285.213	978477.0	5196.56	0.53%	[50000]	ug/L
Mn 257.610	54405.8	348.65	0.64%	[1000.00]	ug/L
Mo 202.031	47511.6	286.11	0.60%	[1000.00]	ug/L
Na 589.592	319197.7	1655.17	0.52%	[25000]	ug/L
Ni 231.604	71278.1	135.04	0.19%	[1000.00]	ug/L
P 213.617	39518.8	183.32	0.46%	[5000]	ug/L
Pb 220.353	16866.2	138.20	0.82%	[1000.00]	ug/L
Sb 206.836	6471.8	32.35	0.50%	[1000.00]	ug/L
Se 196.026	5913.0	32.42	0.55%	[1000.00]	ug/L
Sn 189.927	8688.8	82.23	0.95%	[1000.00]	ug/L
Sr 421.552	964623.0	5236.09	0.54%	[1000.00]	ug/L
Ti 337.279	41884.1	352.93	0.84%	[1000.00]	ug/L
Tl 190.801	7192.2	62.92	0.87%	[1000.00]	ug/L
V 292.402	253339.6	267.27	0.11%	[1000.00]	ug/L
Zn 206.200	103791.7	235.98	0.23%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 12/05/12 9:53:21 AM
Data Type: Reprocessed on 12/06/12 10:12:20 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	129681.3	1651.97	1.27%	[1000.00]	ug/L
Al 308.215	66535.9	799.92	1.20%	[40000.00]	ug/L
As 188.979	11127.2	121.30	1.09%	[2000.00]	ug/L
B	8154.8	143.74	1.76%	[2000.00]	ug/L
Ba 233.527	343128.5	1419.76	0.41%	[2000.00]	ug/L
Be 313.107	13273827.5	76922.04	0.58%	[2000.00]	ug/L
Ca 315.887	1235512.8	7506.23	0.61%	[100000.0]	ug/L
Cd 214.440	797802.3	1866.48	0.23%	[2000.00]	ug/L
Co 228.616	145380.2	529.93	0.36%	[2000.00]	ug/L
Cr 267.716	304697.4	1583.52	0.52%	[2000.00]	ug/L
Cu 327.393	253995.0	3895.80	1.53%	[2000.00]	ug/L
Fe 273.955	1092857.1	3699.12	0.34%	[40000]	ug/L
K 766.490	86172.5	771.95	0.90%	[40000]	ug/L
Mg 285.213	1919777.1	9559.72	0.50%	[100000]	ug/L
Mn 257.610	106168.1	1365.95	1.29%	[2000.00]	ug/L
Mo 202.031	90898.6	269.92	0.30%	[2000.00]	ug/L
Na 589.592	636760.6	2427.69	0.38%	[50000]	ug/L
Ni 231.604	138279.3	363.32	0.26%	[2000.00]	ug/L
P 213.617	75803.0	366.75	0.48%	[10000]	ug/L
Pb 220.353	32563.3	286.03	0.88%	[2000.00]	ug/L
Sb 206.836	12885.5	125.47	0.97%	[2000.00]	ug/L
Se 196.026	11531.2	81.83	0.71%	[2000.00]	ug/L
Sn 189.927	17075.2	232.38	1.36%	[2000.00]	ug/L
Sr 421.552	1915206.2	8835.13	0.46%	[2000.00]	ug/L
Ti 337.279	82381.7	831.61	1.01%	[2000.00]	ug/L
Tl 190.801	14026.6	160.52	1.14%	[2000.00]	ug/L
V 292.402	498531.6	1618.75	0.32%	[2000.00]	ug/L
Zn 206.200	200413.4	863.50	0.43%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	129.9	0.00000	0.999995	
Al 308.215	3	Lin Thru 0	0.0	1.669	0.00000	0.999978	
As 188.979	3	Lin Thru 0	0.0	5.577	0.00000	0.999988	
B	3	Lin Thru 0	0.0	4.085	0.00000	0.999993	
Ba 233.527	3	Lin Thru 0	0.0	172.3	0.00000	0.999963	
Be 313.107	3	Lin Thru 0	0.0	6686	0.00000	0.999893	
Ca 315.887	3	Lin Thru 0	0.0	12.37	0.00000	0.999996	
Cd 214.440	3	Lin Thru 0	0.0	401.8	0.00000	0.999897	
Co 228.616	3	Lin Thru 0	0.0	73.02	0.00000	0.999959	
Cr 267.716	3	Lin Thru 0	0.0	153.1	0.00000	0.999946	
Cu 327.393	3	Lin Thru 0	0.0	126.4	0.00000	0.999960	
Fe 273.955	3	Lin Thru 0	0.0	27.46	0.00000	0.999949	
K 766.490	3	Lin Thru 0	0.0	2.152	0.00000	0.999998	
Mg 285.213	3	Lin Thru 0	0.0	19.27	0.00000	0.999970	
Mn 257.610	3	Lin Thru 0	0.0	53.35	0.00000	0.999951	
Mo 202.031	3	Lin Thru 0	0.0	45.86	0.00000	0.999838	
Na 589.592	3	Lin Thru 0	0.0	12.74	0.00000	0.999999	
Ni 231.604	3	Lin Thru 0	0.0	69.57	0.00000	0.999924	
P 213.617	3	Lin Thru 0	0.0	7.645	0.00000	0.999857	
Pb 220.353	3	Lin Thru 0	0.0	16.40	0.00000	0.999898	
Sb 206.836	3	Lin Thru 0	0.0	6.449	0.00000	0.999998	
Se 196.026	3	Lin Thru 0	0.0	5.795	0.00000	0.999948	
Sn 189.927	3	Lin Thru 0	0.0	8.568	0.00000	0.999975	
Sr 421.552	3	Lin Thru 0	0.0	959.0	0.00000	0.999996	
Ti 337.279	3	Lin Thru 0	0.0	41.33	0.00000	0.999977	
Tl 190.801	3	Lin Thru 0	0.0	7.049	0.00000	0.999948	

V 292.402	3	Lin Thru 0	0.0	250.1	0.00000	0.999979
Zn 206.200	3	Lin Thru 0	0.0	100.9	0.00000	0.999898

Sequence No.: 5
Sample ID: ICV 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 12/05/12 9:57:09 AM
Data Type: Reprocessed on 12/06/12 10:12:25 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	66064.1	508.6	ug/L	12.37	508.6	ug/L	12.37	2.43%
QC value within limits for Ag 338.289 Recovery = 101.72%								
Al 308.215	41975.7	25160	ug/L	100.2	25160	ug/L	100.2	0.40%
QC value within limits for Al 308.215 Recovery = 100.65%								
As 188.979	5501.0	986.3	ug/L	9.71	986.3	ug/L	9.71	0.98%
QC value within limits for As 188.979 Recovery = 98.63%								
B	4050.1	1070	ug/L	10.6	1070	ug/L	10.6	0.99%
QC value within limits for B Recovery = 107.03%								
Ba 233.527	171624.2	982.4	ug/L	9.83	982.4	ug/L	9.83	1.00%
QC value within limits for Ba 233.527 Recovery = 98.24%								
Be 313.107	6803937.7	1018	ug/L	11.1	1018	ug/L	11.1	1.09%
QC value within limits for Be 313.107 Recovery = 101.77%								
Ca 315.887	310154.9	25060	ug/L	104.0	25060	ug/L	104.0	0.42%
QC value within limits for Ca 315.887 Recovery = 100.23%								
Cd 214.440	411058.9	1022	ug/L	11.3	1022	ug/L	11.3	1.11%
QC value within limits for Cd 214.440 Recovery = 102.25%								
Co 228.616	74490.1	1019	ug/L	10.3	1019	ug/L	10.3	1.01%
QC value within limits for Co 228.616 Recovery = 101.95%								
Cr 267.716	156889.3	1026	ug/L	12.5	1026	ug/L	12.5	1.22%
QC value within limits for Cr 267.716 Recovery = 102.56%								
Cu 327.393	124079.2	981.4	ug/L	7.21	981.4	ug/L	7.21	0.73%
QC value within limits for Cu 327.393 Recovery = 98.14%								
Fe 273.955	694637.1	25210	ug/L	268.9	25210	ug/L	268.9	1.07%
QC value within limits for Fe 273.955 Recovery = 100.85%								
K 766.490	52544.1	24400	ug/L	158.1	24400	ug/L	158.1	0.65%
QC value within limits for K 766.490 Recovery = 97.61%								
Mg 285.213	490192.7	25460	ug/L	127.4	25460	ug/L	127.4	0.50%
QC value within limits for Mg 285.213 Recovery = 101.85%								
Mn 257.610	55533.6	1041	ug/L	5.1	1041	ug/L	5.1	0.49%
QC value within limits for Mn 257.610 Recovery = 104.13%								
Mo 202.031	47918.6	1047	ug/L	7.6	1047	ug/L	7.6	0.73%
QC value within limits for Mo 202.031 Recovery = 104.75%								
Na 589.592	310660.6	24360	ug/L	121.7	24360	ug/L	121.7	0.50%
QC value within limits for Na 589.592 Recovery = 97.44%								
Ni 231.604	72797.9	1044	ug/L	11.2	1044	ug/L	11.2	1.08%
QC value within limits for Ni 231.604 Recovery = 104.44%								
P 213.617	37934.5	4962	ug/L	36.0	4962	ug/L	36.0	0.73%
QC value within limits for P 213.617 Recovery = 99.24%								
Pb 220.353	17185.4	1048	ug/L	5.3	1048	ug/L	5.3	0.50%
QC value within limits for Pb 220.353 Recovery = 104.80%								
Sb 206.836	6762.5	1049	ug/L	7.5	1049	ug/L	7.5	0.72%
QC value within limits for Sb 206.836 Recovery = 104.87%								
Se 196.026	5894.9	1028	ug/L	12.0	1028	ug/L	12.0	1.17%
QC value within limits for Se 196.026 Recovery = 102.82%								
Sn 189.927	4515.2	527.0	ug/L	3.77	527.0	ug/L	3.77	0.71%
QC value within limits for Sn 189.927 Recovery = 105.40%								
Sr 421.552	939727.4	979.6	ug/L	4.52	979.6	ug/L	4.52	0.46%
QC value within limits for Sr 421.552 Recovery = 97.96%								
Ti 337.279	38869.5	940.0	ug/L	7.92	940.0	ug/L	7.92	0.84%
QC value within limits for Ti 337.279 Recovery = 94.00%								
Tl 190.801	7143.7	1013	ug/L	10.7	1013	ug/L	10.7	1.06%
QC value within limits for Tl 190.801 Recovery = 101.34%								
V 292.402	252113.7	1026	ug/L	10.8	1026	ug/L	10.8	1.05%
QC value within limits for V 292.402 Recovery = 102.57%								
Zn 206.200	105528.2	1055	ug/L	9.7	1055	ug/L	9.7	0.92%
QC value within limits for Zn 206.200 Recovery = 105.51%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 10:00:53 AM
Data Type: Reprocessed on 12/06/12 10:12:26 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-31.2	-0.240	ug/L	0.1304	-0.240	ug/L	0.1304	54.33%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	16.5	9.866	ug/L	5.1303	9.866	ug/L	5.1303	52.00%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	1.5	0.266	ug/L	0.6967	0.266	ug/L	0.6967	261.98%
QC value within limits for As 188.979 Recovery = Not calculated								
B	50.2	12.29	ug/L	1.335	12.29	ug/L	1.335	10.86%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-0.6	-0.004	ug/L	0.0603	-0.004	ug/L	0.0603	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	30.5	0.005	ug/L	0.0226	0.005	ug/L	0.0226	495.04%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	20.2	1.630	ug/L	1.6390	1.630	ug/L	1.6390	100.55%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	42.7	0.107	ug/L	0.0600	0.107	ug/L	0.0600	56.22%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	1.3	0.019	ug/L	0.0989	0.019	ug/L	0.0989	525.80%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-17.0	-0.111	ug/L	0.0676	-0.111	ug/L	0.0676	60.96%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	55.6	0.440	ug/L	0.5493	0.440	ug/L	0.5493	124.98%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	21.7	0.784	ug/L	0.4356	0.784	ug/L	0.4356	55.53%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	138.8	64.47	ug/L	104.828	64.47	ug/L	104.828	162.59%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	35.9	1.861	ug/L	0.4357	1.861	ug/L	0.4357	23.41%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-2.8	-0.052	ug/L	0.1176	-0.052	ug/L	0.1176	225.89%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	25.4	0.554	ug/L	0.0857	0.554	ug/L	0.0857	15.47%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	51.8	4.037	ug/L	8.4698	4.037	ug/L	8.4698	209.80%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-24.9	-0.359	ug/L	0.0976	-0.359	ug/L	0.0976	27.20%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-0.5	-0.061	ug/L	0.9811	-0.061	ug/L	0.9811	>999.9%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	13.3	0.811	ug/L	0.7766	0.811	ug/L	0.7766	95.75%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	10.5	1.633	ug/L	0.8130	1.633	ug/L	0.8130	49.80%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-2.2	-0.374	ug/L	3.5161	-0.374	ug/L	3.5161	939.05%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	22.3	2.597	ug/L	0.3017	2.597	ug/L	0.3017	11.61%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	152.8	0.159	ug/L	0.2448	0.159	ug/L	0.2448	153.54%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	14.0	0.338	ug/L	0.2639	0.338	ug/L	0.2639	78.07%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	5.1	0.727	ug/L	0.4798	0.727	ug/L	0.4798	66.02%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	13.1	0.059	ug/L	0.4099	0.059	ug/L	0.4099	697.59%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-23.5	-0.232	ug/L	0.2315	-0.232	ug/L	0.2315	99.64%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 12/05/12 10:13:35 AM
Data Type: Reprocessed on 12/06/12 10:12:28 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	15.4	0.119	ug/L	0.4831	0.119	ug/L	0.4831	407.31%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	318154.2	190700	ug/L	3080.5	190700	ug/L	3080.5	1.62%
QC value within limits for Al 308.215 Recovery = 95.33%								
As 188.979	3.4	0.617	ug/L	0.3376	0.617	ug/L	0.3376	54.75%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2096.2	50.21	ug/L	9.819	50.21	ug/L	9.819	19.55%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	17554.0	0.115	ug/L	3.3435	0.115	ug/L	3.3435	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-860.8	-0.129	ug/L	0.0149	-0.129	ug/L	0.0149	11.61%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2383265.7	192600	ug/L	3182.5	192600	ug/L	3182.5	1.65%
QC value within limits for Ca 315.887 Recovery = 96.30%								
Cd 214.440	3633.5	-0.101	ug/L	0.1738	-0.101	ug/L	0.1738	171.65%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	296.5	-0.018	ug/L	0.4547	-0.018	ug/L	0.4547	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-60.5	0.160	ug/L	0.2606	0.160	ug/L	0.2606	163.00%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-186.0	-1.471	ug/L	0.4392	-1.471	ug/L	0.4392	29.86%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4891063.1	178100	ug/L	1967.6	178100	ug/L	1967.6	1.10%
QC value within limits for Fe 273.955 Recovery = 89.05%								
K 766.490	159.9	-39.15	ug/L	39.600	-39.15	ug/L	39.600	101.14%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3601480.7	187100	ug/L	2883.4	187100	ug/L	2883.4	1.54%
QC value within limits for Mg 285.213 Recovery = 93.54%								
Mn 257.610	-123.0	-1.321	ug/L	0.2889	-1.321	ug/L	0.2889	21.87%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-664.1	-0.990	ug/L	0.2686	-0.990	ug/L	0.2686	27.13%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	22.9	-42.75	ug/L	0.760	-42.75	ug/L	0.760	1.78%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	12.7	-0.015	ug/L	0.5502	-0.015	ug/L	0.5502	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-24.2	-3.170	ug/L	0.8768	-3.170	ug/L	0.8768	27.66%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	17.7	1.078	ug/L	0.9012	1.078	ug/L	0.9012	83.57%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	1.2	0.190	ug/L	0.7490	0.190	ug/L	0.7490	393.21%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-489.0	0.065	ug/L	3.5825	0.065	ug/L	3.5825	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-3.0	-0.354	ug/L	0.4843	-0.354	ug/L	0.4843	136.92%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2310.6	0.253	ug/L	0.0181	0.253	ug/L	0.0181	7.16%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	85.8	-1.278	ug/L	0.4213	-1.278	ug/L	0.4213	32.96%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-4.4	-0.618	ug/L	1.0503	-0.618	ug/L	1.0503	169.87%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	10699.5	-0.023	ug/L	0.7744	-0.023	ug/L	0.7744	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	774.7	-1.316	ug/L	0.5647	-1.316	ug/L	0.5647	42.90%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 12/05/12 10:18:14 AM
Data Type: Reprocessed on 12/06/12 10:12:29 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	129665.2	998.2	ug/L	10.14	998.2	ug/L	10.14	1.02%
QC value within limits for Ag 338.289 Recovery = 99.82%								
Al 308.215	317865.2	190500	ug/L	1164.2	190500	ug/L	1164.2	0.61%
QC value within limits for Al 308.215 Recovery = 95.24%								
As 188.979	2627.4	471.1	ug/L	0.70	471.1	ug/L	0.70	0.15%
QC value within limits for As 188.979 Recovery = 94.22%								
B	-2103.2	41.97	ug/L	12.197	41.97	ug/L	12.197	29.06%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	96267.0	458.3	ug/L	5.00	458.3	ug/L	5.00	1.09%
QC value within limits for Ba 233.527 Recovery = 91.67%								
Be 313.107	3095321.7	463.0	ug/L	2.90	463.0	ug/L	2.90	0.63%
QC value within limits for Be 313.107 Recovery = 92.59%								
Ca 315.887	2380835.7	192400	ug/L	1310.0	192400	ug/L	1310.0	0.68%
QC value within limits for Ca 315.887 Recovery = 96.20%								
Cd 214.440	367860.7	906.7	ug/L	8.39	906.7	ug/L	8.39	0.93%
QC value within limits for Cd 214.440 Recovery = 90.67%								
Co 228.616	33206.2	451.6	ug/L	5.28	451.6	ug/L	5.28	1.17%
QC value within limits for Co 228.616 Recovery = 90.32%								
Cr 267.716	70615.2	462.2	ug/L	2.95	462.2	ug/L	2.95	0.64%
QC value within limits for Cr 267.716 Recovery = 92.43%								
Cu 327.393	58801.6	465.1	ug/L	6.08	465.1	ug/L	6.08	1.31%
QC value within limits for Cu 327.393 Recovery = 93.01%								
Fe 273.955	4841411.2	176300	ug/L	893.8	176300	ug/L	893.8	0.51%
QC value within limits for Fe 273.955 Recovery = 88.13%								
K 766.490	245.2	0.230	ug/L	67.2082	0.230	ug/L	67.2082	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3604298.1	187200	ug/L	1139.2	187200	ug/L	1139.2	0.61%
QC value within limits for Mg 285.213 Recovery = 93.61%								
Mn 257.610	25165.1	472.7	ug/L	4.75	472.7	ug/L	4.75	1.01%
QC value within limits for Mn 257.610 Recovery = 94.53%								
Mo 202.031	21210.4	476.2	ug/L	1.41	476.2	ug/L	1.41	0.30%
QC value within limits for Mo 202.031 Recovery = 95.24%								
Na 589.592	238.4	-27.47	ug/L	16.403	-27.47	ug/L	16.403	59.71%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	63667.6	914.1	ug/L	8.85	914.1	ug/L	8.85	0.97%
QC value within limits for Ni 231.604 Recovery = 91.41%								
P 213.617	-4.2	-0.555	ug/L	2.0106	-0.555	ug/L	2.0106	362.13%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	15434.3	941.2	ug/L	1.55	941.2	ug/L	1.55	0.16%
QC value within limits for Pb 220.353 Recovery = 94.12%								
Sb 206.836	3086.6	478.6	ug/L	1.56	478.6	ug/L	1.56	0.33%
QC value within limits for Sb 206.836 Recovery = 95.73%								
Se 196.026	2269.0	474.9	ug/L	4.84	474.9	ug/L	4.84	1.02%
QC value within limits for Se 196.026 Recovery = 94.98%								
Sn 189.927	-6.2	-0.718	ug/L	1.2353	-0.718	ug/L	1.2353	171.94%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2107.0	0.053	ug/L	0.1517	0.053	ug/L	0.1517	285.31%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	88.5	-1.163	ug/L	0.5253	-1.163	ug/L	0.5253	45.19%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3237.1	459.2	ug/L	1.59	459.2	ug/L	1.59	0.35%
QC value within limits for Tl 190.801 Recovery = 91.85%								
V 292.402	128337.1	481.9	ug/L	4.10	481.9	ug/L	4.10	0.85%
QC value within limits for V 292.402 Recovery = 96.38%								
Zn 206.200	92651.5	913.8	ug/L	9.56	913.8	ug/L	9.56	1.05%
QC value within limits for Zn 206.200 Recovery = 91.38%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 10:22:52 AM
Data Type: Reprocessed on 12/06/12 10:12:30 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	64611.6	497.4	ug/L	6.13	497.4	ug/L	6.13	1.23%
QC value within limits for Ag 338.289 Recovery = 99.48%								
Al 308.215	34352.1	20590	ug/L	165.6	20590	ug/L	165.6	0.80%
QC value within limits for Al 308.215 Recovery = 102.97%								
As 188.979	5775.3	1035	ug/L	8.9	1035	ug/L	8.9	0.86%
QC value within limits for As 188.979 Recovery = 103.55%								
B	4192.0	1089	ug/L	11.7	1089	ug/L	11.7	1.07%
QC value within limits for B Recovery = 108.89%								
Ba 233.527	177032.9	1016	ug/L	9.8	1016	ug/L	9.8	0.97%
QC value within limits for Ba 233.527 Recovery = 101.64%								
Be 313.107	6967074.4	1042	ug/L	7.3	1042	ug/L	7.3	0.70%
QC value within limits for Be 313.107 Recovery = 104.21%								
Ca 315.887	635336.1	51340	ug/L	251.0	51340	ug/L	251.0	0.49%
QC value within limits for Ca 315.887 Recovery = 102.68%								
Cd 214.440	421274.0	1048	ug/L	10.2	1048	ug/L	10.2	0.98%
QC value within limits for Cd 214.440 Recovery = 104.81%								
Co 228.616	75402.9	1032	ug/L	10.4	1032	ug/L	10.4	1.01%
QC value within limits for Co 228.616 Recovery = 103.18%								
Cr 267.716	157760.8	1031	ug/L	10.7	1031	ug/L	10.7	1.04%
QC value within limits for Cr 267.716 Recovery = 103.10%								
Cu 327.393	124760.9	986.7	ug/L	16.26	986.7	ug/L	16.26	1.65%
QC value within limits for Cu 327.393 Recovery = 98.67%								
Fe 273.955	567043.1	20560	ug/L	202.1	20560	ug/L	202.1	0.98%
QC value within limits for Fe 273.955 Recovery = 102.82%								
K 766.490	43613.2	20250	ug/L	243.1	20250	ug/L	243.1	1.20%
QC value within limits for K 766.490 Recovery = 101.23%								
Mg 285.213	993368.3	51570	ug/L	224.0	51570	ug/L	224.0	0.43%
QC value within limits for Mg 285.213 Recovery = 103.13%								
Mn 257.610	55659.6	1042	ug/L	11.8	1042	ug/L	11.8	1.14%
QC value within limits for Mn 257.610 Recovery = 104.22%								
Mo 202.031	48449.7	1059	ug/L	10.1	1059	ug/L	10.1	0.96%
QC value within limits for Mo 202.031 Recovery = 105.86%								
Na 589.592	321804.6	25230	ug/L	105.5	25230	ug/L	105.5	0.42%
QC value within limits for Na 589.592 Recovery = 100.93%								
Ni 231.604	72491.6	1040	ug/L	11.4	1040	ug/L	11.4	1.10%
QC value within limits for Ni 231.604 Recovery = 103.99%								
P 213.617	40775.1	5334	ug/L	31.0	5334	ug/L	31.0	0.58%
QC value within limits for P 213.617 Recovery = 106.67%								
Pb 220.353	17427.6	1063	ug/L	7.0	1063	ug/L	7.0	0.66%
QC value within limits for Pb 220.353 Recovery = 106.28%								
Sb 206.836	6618.8	1026	ug/L	9.1	1026	ug/L	9.1	0.89%
QC value within limits for Sb 206.836 Recovery = 102.64%								
Se 196.026	6092.8	1059	ug/L	2.8	1059	ug/L	2.8	0.26%
QC value within limits for Se 196.026 Recovery = 105.92%								
Sn 189.927	8939.0	1043	ug/L	7.2	1043	ug/L	7.2	0.69%
QC value within limits for Sn 189.927 Recovery = 104.33%								
Sr 421.552	967145.0	1008	ug/L	6.0	1008	ug/L	6.0	0.60%
QC value within limits for Sr 421.552 Recovery = 100.81%								
Ti 337.279	42402.1	1025	ug/L	10.1	1025	ug/L	10.1	0.99%
QC value within limits for Ti 337.279 Recovery = 102.51%								
Tl 190.801	7407.0	1051	ug/L	14.2	1051	ug/L	14.2	1.35%
QC value within limits for Tl 190.801 Recovery = 105.08%								
V 292.402	254597.0	1037	ug/L	9.4	1037	ug/L	9.4	0.91%
QC value within limits for V 292.402 Recovery = 103.69%								
Zn 206.200	106409.4	1064	ug/L	11.6	1064	ug/L	11.6	1.09%
QC value within limits for Zn 206.200 Recovery = 106.43%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 10:26:35 AM
Data Type: Reprocessed on 12/06/12 10:12:31 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	38.7	0.298	ug/L	1.5262	0.298	ug/L	1.5262	511.98%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	32.9	19.70	ug/L	1.099	19.70	ug/L	1.099	5.58%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	3.7	0.660	ug/L	1.3233	0.660	ug/L	1.3233	200.65%
QC value within limits for As 188.979 Recovery = Not calculated								
B	34.7	8.511	ug/L	1.3629	8.511	ug/L	1.3629	16.01%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	23.9	0.137	ug/L	0.0349	0.137	ug/L	0.0349	25.47%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-182.0	-0.027	ug/L	0.0246	-0.027	ug/L	0.0246	90.27%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	83.6	6.758	ug/L	1.3570	6.758	ug/L	1.3570	20.08%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	41.1	0.103	ug/L	0.0224	0.103	ug/L	0.0224	21.84%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	10.6	0.148	ug/L	0.3560	0.148	ug/L	0.3560	240.88%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-2.4	-0.015	ug/L	0.0728	-0.015	ug/L	0.0728	474.88%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	19.3	0.152	ug/L	1.5648	0.152	ug/L	1.5648	>999.9%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	66.4	2.415	ug/L	0.5099	2.415	ug/L	0.5099	21.12%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-31.3	-14.53	ug/L	63.265	-14.53	ug/L	63.265	435.50%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	64.6	3.355	ug/L	1.0394	3.355	ug/L	1.0394	30.98%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	1.2	0.023	ug/L	0.1426	0.023	ug/L	0.1426	615.99%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	23.6	0.514	ug/L	0.1563	0.514	ug/L	0.1563	30.39%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-11.6	-0.911	ug/L	6.1586	-0.911	ug/L	6.1586	676.33%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-26.2	-0.377	ug/L	0.1057	-0.377	ug/L	0.1057	28.05%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	1.3	0.172	ug/L	0.5765	0.172	ug/L	0.5765	335.71%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	23.6	1.440	ug/L	0.8979	1.440	ug/L	0.8979	62.37%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	8.3	1.292	ug/L	0.6071	1.292	ug/L	0.6071	47.00%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	0.8	0.146	ug/L	2.6049	0.146	ug/L	2.6049	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	15.4	1.802	ug/L	1.1195	1.802	ug/L	1.1195	62.12%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	194.8	0.203	ug/L	0.1564	0.203	ug/L	0.1564	77.01%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-13.4	-0.325	ug/L	0.0572	-0.325	ug/L	0.0572	17.61%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2.2	0.306	ug/L	0.5000	0.306	ug/L	0.5000	163.37%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	4.5	0.025	ug/L	0.4778	0.025	ug/L	0.4778	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-65.4	-0.648	ug/L	0.1116	-0.648	ug/L	0.1116	17.22%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 57
Sample ID: CCV1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 2:03:31 PM
Data Type: Reprocessed on 12/06/12 10:13:18 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	63646.9	490.0	ug/L	3.70	490.0	ug/L	3.70	0.75%
QC value within limits for Ag 338.289 Recovery = 98.00%								
Al 308.215	34860.9	20900	ug/L	270.1	20900	ug/L	270.1	1.29%
QC value within limits for Al 308.215 Recovery = 104.49%								
As 188.979	5626.9	1009	ug/L	5.0	1009	ug/L	5.0	0.49%
QC value within limits for As 188.979 Recovery = 100.89%								
B	4154.7	1080	ug/L	16.5	1080	ug/L	16.5	1.53%
QC value within limits for B Recovery = 107.96%								
Ba 233.527	177035.8	1016	ug/L	6.6	1016	ug/L	6.6	0.65%
QC value within limits for Ba 233.527 Recovery = 101.64%								
Be 313.107	6885335.8	1030	ug/L	8.3	1030	ug/L	8.3	0.80%
QC value within limits for Be 313.107 Recovery = 102.98%								
Ca 315.887	654581.3	52900	ug/L	618.3	52900	ug/L	618.3	1.17%
QC value within limits for Ca 315.887 Recovery = 105.79%								
Cd 214.440	417884.1	1040	ug/L	6.8	1040	ug/L	6.8	0.65%
QC value within limits for Cd 214.440 Recovery = 103.97%								
Co 228.616	75298.7	1030	ug/L	6.4	1030	ug/L	6.4	0.62%
QC value within limits for Co 228.616 Recovery = 103.03%								
Cr 267.716	157332.4	1028	ug/L	5.8	1028	ug/L	5.8	0.57%
QC value within limits for Cr 267.716 Recovery = 102.82%								
Cu 327.393	123204.9	974.4	ug/L	10.73	974.4	ug/L	10.73	1.10%
QC value within limits for Cu 327.393 Recovery = 97.44%								
Fe 273.955	566468.5	20540	ug/L	130.3	20540	ug/L	130.3	0.63%
QC value within limits for Fe 273.955 Recovery = 102.72%								
K 766.490	44322.7	20570	ug/L	304.8	20570	ug/L	304.8	1.48%
QC value within limits for K 766.490 Recovery = 102.87%								
Mg 285.213	1018504.8	52870	ug/L	471.7	52870	ug/L	471.7	0.89%
QC value within limits for Mg 285.213 Recovery = 105.74%								
Mn 257.610	56248.8	1053	ug/L	17.7	1053	ug/L	17.7	1.68%
QC value within limits for Mn 257.610 Recovery = 105.32%								
Mo 202.031	47668.4	1042	ug/L	6.5	1042	ug/L	6.5	0.63%
QC value within limits for Mo 202.031 Recovery = 104.15%								
Na 589.592	324715.9	25460	ug/L	247.0	25460	ug/L	247.0	0.97%
QC value within limits for Na 589.592 Recovery = 101.85%								
Ni 231.604	71878.7	1031	ug/L	6.7	1031	ug/L	6.7	0.65%
QC value within limits for Ni 231.604 Recovery = 103.11%								
P 213.617	39590.0	5179	ug/L	40.2	5179	ug/L	40.2	0.78%
QC value within limits for P 213.617 Recovery = 103.57%								
Pb 220.353	17010.2	1037	ug/L	12.6	1037	ug/L	12.6	1.21%
QC value within limits for Pb 220.353 Recovery = 103.73%								
Sb 206.836	6539.4	1014	ug/L	15.1	1014	ug/L	15.1	1.49%
QC value within limits for Sb 206.836 Recovery = 101.41%								
Se 196.026	5932.3	1031	ug/L	9.2	1031	ug/L	9.2	0.89%
QC value within limits for Se 196.026 Recovery = 103.14%								
Sn 189.927	8962.3	1046	ug/L	16.0	1046	ug/L	16.0	1.52%
QC value within limits for Sn 189.927 Recovery = 104.60%								
Sr 421.552	990521.5	1032	ug/L	9.9	1032	ug/L	9.9	0.96%
QC value within limits for Sr 421.552 Recovery = 103.25%								
Ti 337.279	43369.2	1049	ug/L	15.6	1049	ug/L	15.6	1.49%
QC value within limits for Ti 337.279 Recovery = 104.85%								
Tl 190.801	7173.6	1018	ug/L	9.0	1018	ug/L	9.0	0.88%
QC value within limits for Tl 190.801 Recovery = 101.77%								
V 292.402	255198.4	1039	ug/L	6.4	1039	ug/L	6.4	0.62%
QC value within limits for V 292.402 Recovery = 103.90%								
Zn 206.200	105436.0	1055	ug/L	7.7	1055	ug/L	7.7	0.73%
QC value within limits for Zn 206.200 Recovery = 105.46%								

All analyte(s) passed QC.

Sequence No.: 58
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 2:07:14 PM
Data Type: Reprocessed on 12/06/12 10:13:19 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	39.4	0.304	ug/L	0.3595	0.304	ug/L	0.3595	118.37%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	13.4	8.026	ug/L	0.5891	8.026	ug/L	0.5891	7.34%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.2	1.288	ug/L	0.1786	1.288	ug/L	0.1786	13.86%
QC value within limits for As 188.979 Recovery = Not calculated								
B	25.6	6.269	ug/L	4.4722	6.269	ug/L	4.4722	71.33%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	8.5	0.048	ug/L	0.0932	0.048	ug/L	0.0932	195.94%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-396.7	-0.059	ug/L	0.0163	-0.059	ug/L	0.0163	27.55%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	64.0	5.168	ug/L	1.4265	5.168	ug/L	1.4265	27.60%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	4.5	0.012	ug/L	0.0260	0.012	ug/L	0.0260	222.63%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	15.2	0.211	ug/L	0.1224	0.211	ug/L	0.1224	58.03%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-20.2	-0.132	ug/L	0.1634	-0.132	ug/L	0.1634	123.79%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	163.9	1.296	ug/L	1.4512	1.296	ug/L	1.4512	111.95%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	50.3	1.838	ug/L	0.9338	1.838	ug/L	0.9338	50.81%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	56.8	26.36	ug/L	57.722	26.36	ug/L	57.722	218.95%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	36.9	1.914	ug/L	0.2550	1.914	ug/L	0.2550	13.32%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-1.1	-0.020	ug/L	0.1791	-0.020	ug/L	0.1791	893.93%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	33.6	0.733	ug/L	0.2712	0.733	ug/L	0.2712	37.01%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-145.3	-11.42	ug/L	9.986	-11.42	ug/L	9.986	87.46%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-27.2	-0.392	ug/L	0.1401	-0.392	ug/L	0.1401	35.71%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-8.2	-1.071	ug/L	1.6421	-1.071	ug/L	1.6421	153.29%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	12.4	0.754	ug/L	0.9358	0.754	ug/L	0.9358	124.05%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	4.3	0.660	ug/L	0.6797	0.660	ug/L	0.6797	102.98%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-0.1	-0.011	ug/L	0.9415	-0.011	ug/L	0.9415	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	5.5	0.641	ug/L	0.7443	0.641	ug/L	0.7443	116.17%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	380.2	0.396	ug/L	0.0785	0.396	ug/L	0.0785	19.79%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-11.3	-0.274	ug/L	0.4417	-0.274	ug/L	0.4417	160.94%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.9	1.256	ug/L	0.5162	1.256	ug/L	0.5162	41.09%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-22.9	-0.083	ug/L	0.8423	-0.083	ug/L	0.8423	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-109.2	-1.083	ug/L	0.0881	-1.083	ug/L	0.0881	8.14%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 68
Sample ID: CCV2 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 12/05/12 3:23:33 PM
Data Type: Reprocessed on 12/06/12 10:13:29 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	49907.2	384.2	ug/L	3.08	384.2	ug/L	3.08	0.80%
QC value within limits for Ag 338.289 Recovery = 102.46%								
Al 308.215	27614.1	16550	ug/L	109.9	16550	ug/L	109.9	0.66%
QC value within limits for Al 308.215 Recovery = 110.36%								
As 188.979	4403.6	789.6	ug/L	2.89	789.6	ug/L	2.89	0.37%
QC value within limits for As 188.979 Recovery = 105.27%								
B	3241.6	841.4	ug/L	8.14	841.4	ug/L	8.14	0.97%
QC value greater than the upper limit for B Recovery = 112.19%								
Ba 233.527	136166.3	781.8	ug/L	4.40	781.8	ug/L	4.40	0.56%
QC value within limits for Ba 233.527 Recovery = 104.24%								
Be 313.107	5355865.3	801.1	ug/L	1.80	801.1	ug/L	1.80	0.22%
QC value within limits for Be 313.107 Recovery = 106.81%								
Ca 315.887	525429.4	42460	ug/L	482.2	42460	ug/L	482.2	1.14%
QC value greater than the upper limit for Ca 315.887 Recovery = 113.23%								
Cd 214.440	323283.8	804.3	ug/L	5.75	804.3	ug/L	5.75	0.72%
QC value within limits for Cd 214.440 Recovery = 107.24%								
Co 228.616	58251.2	796.9	ug/L	6.49	796.9	ug/L	6.49	0.81%
QC value within limits for Co 228.616 Recovery = 106.25%								
Cr 267.716	120502.7	787.4	ug/L	5.05	787.4	ug/L	5.05	0.64%
QC value within limits for Cr 267.716 Recovery = 104.99%								
Cu 327.393	96635.1	764.3	ug/L	5.26	764.3	ug/L	5.26	0.69%
QC value within limits for Cu 327.393 Recovery = 101.91%								
Fe 273.955	435527.5	15800	ug/L	101.7	15800	ug/L	101.7	0.64%
QC value within limits for Fe 273.955 Recovery = 105.30%								
K 766.490	34725.1	16120	ug/L	223.3	16120	ug/L	223.3	1.39%
QC value within limits for K 766.490 Recovery = 107.46%								
Mg 285.213	810383.6	42070	ug/L	399.5	42070	ug/L	399.5	0.95%
QC value greater than the upper limit for Mg 285.213 Recovery = 112.18%								
Mn 257.610	44266.7	828.8	ug/L	3.46	828.8	ug/L	3.46	0.42%
QC value greater than the upper limit for Mn 257.610 Recovery = 110.50%								
Mo 202.031	35951.2	785.5	ug/L	4.03	785.5	ug/L	4.03	0.51%
QC value within limits for Mo 202.031 Recovery = 104.74%								
Na 589.592	256184.3	20090	ug/L	210.1	20090	ug/L	210.1	1.05%
QC value within limits for Na 589.592 Recovery = 107.14%								
Ni 231.604	55559.4	797.0	ug/L	4.74	797.0	ug/L	4.74	0.59%
QC value within limits for Ni 231.604 Recovery = 106.27%								
P 213.617	30641.4	4008	ug/L	48.1	4008	ug/L	48.1	1.20%
QC value within limits for P 213.617 Recovery = 106.88%								
Pb 220.353	13198.5	804.9	ug/L	1.58	804.9	ug/L	1.58	0.20%
QC value within limits for Pb 220.353 Recovery = 107.31%								
Sb 206.836	5197.2	805.9	ug/L	1.07	805.9	ug/L	1.07	0.13%
QC value within limits for Sb 206.836 Recovery = 107.46%								
Se 196.026	4628.2	804.4	ug/L	1.79	804.4	ug/L	1.79	0.22%
QC value within limits for Se 196.026 Recovery = 107.26%								
Sn 189.927	6734.6	786.0	ug/L	4.24	786.0	ug/L	4.24	0.54%
QC value within limits for Sn 189.927 Recovery = 104.80%								
Sr 421.552	791082.4	824.6	ug/L	6.75	824.6	ug/L	6.75	0.82%
QC value within limits for Sr 421.552 Recovery = 109.95%								
Ti 337.279	35144.1	849.7	ug/L	6.17	849.7	ug/L	6.17	0.73%
QC value greater than the upper limit for Ti 337.279 Recovery = 113.29%								
Tl 190.801	5664.6	803.6	ug/L	0.91	803.6	ug/L	0.91	0.11%
QC value within limits for Tl 190.801 Recovery = 107.15%								
V 292.402	195315.9	795.0	ug/L	4.80	795.0	ug/L	4.80	0.60%
QC value within limits for V 292.402 Recovery = 106.00%								
Zn 206.200	81083.5	811.0	ug/L	5.13	811.0	ug/L	5.13	0.63%
QC value within limits for Zn 206.200 Recovery = 108.14%								

QC Failed. Continue with analysis.

Sequence No.: 69
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 12/05/12 3:29:31 PM
Data Type: Reprocessed on 12/06/12 10:13:30 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	62.2	0.479	ug/L	1.0880	0.479	ug/L	1.0880	227.23%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	27.9	16.70	ug/L	10.779	16.70	ug/L	10.779	64.56%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.1	0.742	ug/L	0.7184	0.742	ug/L	0.7184	96.81%
QC value within limits for As 188.979 Recovery = Not calculated								
B	49.9	12.20	ug/L	2.788	12.20	ug/L	2.788	22.85%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-5.8	-0.032	ug/L	0.0387	-0.032	ug/L	0.0387	119.24%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	63.0	0.009	ug/L	0.0140	0.009	ug/L	0.0140	148.20%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	1133.4	91.61	ug/L	10.182	91.61	ug/L	10.182	11.12%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	27.1	0.068	ug/L	0.0045	0.068	ug/L	0.0045	6.61%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-22.8	-0.310	ug/L	0.0801	-0.310	ug/L	0.0801	25.79%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-64.6	-0.422	ug/L	0.1703	-0.422	ug/L	0.1703	40.37%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	173.2	1.370	ug/L	0.6923	1.370	ug/L	0.6923	50.53%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	-62.3	-2.296	ug/L	0.5395	-2.296	ug/L	0.5395	23.50%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	122.4	56.85	ug/L	69.716	56.85	ug/L	69.716	122.62%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	76.2	3.950	ug/L	0.4022	3.950	ug/L	0.4022	10.18%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	2.0	0.037	ug/L	0.0844	0.037	ug/L	0.0844	228.85%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	25.2	0.549	ug/L	0.0433	0.549	ug/L	0.0433	7.89%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	453.5	35.56	ug/L	7.229	35.56	ug/L	7.229	20.33%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	7.3	0.105	ug/L	0.1912	0.105	ug/L	0.1912	182.73%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	241.9	31.65	ug/L	2.975	31.65	ug/L	2.975	9.40%
QC value greater than the upper limit for P 213.617 Recovery = Not calculated								
Pb 220.353	18.2	1.108	ug/L	0.3606	1.108	ug/L	0.3606	32.55%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	9.5	1.467	ug/L	0.3285	1.467	ug/L	0.3285	22.40%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	2.3	0.398	ug/L	0.9907	0.398	ug/L	0.9907	249.03%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	2.8	0.327	ug/L	0.7159	0.327	ug/L	0.7159	219.03%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	245.9	0.256	ug/L	0.1004	0.256	ug/L	0.1004	39.22%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-4.8	-0.116	ug/L	0.2166	-0.116	ug/L	0.2166	186.87%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	7.0	0.997	ug/L	0.1680	0.997	ug/L	0.1680	16.85%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	79.8	0.323	ug/L	0.0453	0.323	ug/L	0.0453	14.00%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-111.5	-1.107	ug/L	0.0982	-1.107	ug/L	0.0982	8.87%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 79
Sample ID: CCV1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 4:25:13 PM
Data Type: Reprocessed on 12/06/12 10:13:43 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65271.4	502.5	ug/L	2.68	502.5	ug/L	2.68	0.53%
QC value within limits for Ag 338.289 Recovery = 100.50%								
Al 308.215	35971.7	21560	ug/L	92.0	21560	ug/L	92.0	0.43%
QC value within limits for Al 308.215 Recovery = 107.82%								
As 188.979	5586.8	1002	ug/L	12.0	1002	ug/L	12.0	1.20%
QC value within limits for As 188.979 Recovery = 100.17%								
B	4172.9	1083	ug/L	17.4	1083	ug/L	17.4	1.61%
QC value within limits for B Recovery = 108.30%								
Ba 233.527	175883.9	1010	ug/L	1.9	1010	ug/L	1.9	0.19%
QC value within limits for Ba 233.527 Recovery = 100.99%								
Be 313.107	6819538.9	1020	ug/L	8.5	1020	ug/L	8.5	0.83%
QC value within limits for Be 313.107 Recovery = 102.00%								
Ca 315.887	674439.9	54500	ug/L	411.8	54500	ug/L	411.8	0.76%
QC value within limits for Ca 315.887 Recovery = 109.00%								
Cd 214.440	408126.9	1015	ug/L	1.1	1015	ug/L	1.1	0.11%
QC value within limits for Cd 214.440 Recovery = 101.54%								
Co 228.616	74550.9	1020	ug/L	2.0	1020	ug/L	2.0	0.19%
QC value within limits for Co 228.616 Recovery = 101.99%								
Cr 267.716	155428.5	1016	ug/L	0.7	1016	ug/L	0.7	0.07%
QC value within limits for Cr 267.716 Recovery = 101.57%								
Cu 327.393	126374.1	999.5	ug/L	1.93	999.5	ug/L	1.93	0.19%
QC value within limits for Cu 327.393 Recovery = 99.95%								
Fe 273.955	559109.1	20280	ug/L	24.4	20280	ug/L	24.4	0.12%
QC value within limits for Fe 273.955 Recovery = 101.38%								
K 766.490	46128.9	21410	ug/L	57.2	21410	ug/L	57.2	0.27%
QC value within limits for K 766.490 Recovery = 107.07%								
Mg 285.213	1047315.4	54370	ug/L	369.5	54370	ug/L	369.5	0.68%
QC value within limits for Mg 285.213 Recovery = 108.73%								
Mn 257.610	57087.4	1069	ug/L	2.2	1069	ug/L	2.2	0.20%
QC value within limits for Mn 257.610 Recovery = 106.88%								
Mo 202.031	47817.5	1045	ug/L	14.7	1045	ug/L	14.7	1.40%
QC value within limits for Mo 202.031 Recovery = 104.47%								
Na 589.592	331182.2	25970	ug/L	216.1	25970	ug/L	216.1	0.83%
QC value within limits for Na 589.592 Recovery = 103.87%								
Ni 231.604	72262.3	1037	ug/L	16.0	1037	ug/L	16.0	1.55%
QC value within limits for Ni 231.604 Recovery = 103.66%								
P 213.617	39668.2	5189	ug/L	69.2	5189	ug/L	69.2	1.33%
QC value within limits for P 213.617 Recovery = 103.78%								
Pb 220.353	16855.4	1028	ug/L	15.1	1028	ug/L	15.1	1.47%
QC value within limits for Pb 220.353 Recovery = 102.79%								
Sb 206.836	6647.3	1031	ug/L	16.6	1031	ug/L	16.6	1.61%
QC value within limits for Sb 206.836 Recovery = 103.08%								
Se 196.026	5839.3	1015	ug/L	12.7	1015	ug/L	12.7	1.25%
QC value within limits for Se 196.026 Recovery = 101.51%								
Sn 189.927	8662.1	1011	ug/L	20.9	1011	ug/L	20.9	2.07%
QC value within limits for Sn 189.927 Recovery = 101.10%								
Sr 421.552	1035102.1	1079	ug/L	8.9	1079	ug/L	8.9	0.83%
QC value within limits for Sr 421.552 Recovery = 107.90%								
Ti 337.279	46309.1	1120	ug/L	2.7	1120	ug/L	2.7	0.24%
QC value greater than the upper limit for Ti 337.279 Recovery = 111.96%								
Tl 190.801	7219.7	1024	ug/L	15.0	1024	ug/L	15.0	1.47%
QC value within limits for Tl 190.801 Recovery = 102.42%								
V 292.402	254014.1	1034	ug/L	1.6	1034	ug/L	1.6	0.15%
QC value within limits for V 292.402 Recovery = 103.42%								
Zn 206.200	102081.1	1021	ug/L	2.4	1021	ug/L	2.4	0.24%
QC value within limits for Zn 206.200 Recovery = 102.13%								

QC Failed. Continue with analysis.

Sequence No.: 80
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 4:37:04 PM
Data Type: Reprocessed on 12/06/12 10:13:44 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-144.7	-1.114	ug/L	0.8602	-1.114	ug/L	0.8602	77.19%
QC value less than the lower limit for Ag 338.289 Recovery = Not calculated								
Al 308.215	14.6	8.780	ug/L	7.6502	8.780	ug/L	7.6502	87.13%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	3.2	0.572	ug/L	0.7633	0.572	ug/L	0.7633	133.44%
QC value within limits for As 188.979 Recovery = Not calculated								
B	32.0	7.826	ug/L	2.2900	7.826	ug/L	2.2900	29.26%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-6.2	-0.034	ug/L	0.0379	-0.034	ug/L	0.0379	109.95%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-119.8	-0.018	ug/L	0.0287	-0.018	ug/L	0.0287	159.91%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	472.6	38.19	ug/L	10.601	38.19	ug/L	10.601	27.76%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	17.7	0.044	ug/L	0.0508	0.044	ug/L	0.0508	114.88%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-5.6	-0.077	ug/L	0.1084	-0.077	ug/L	0.1084	140.05%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-81.2	-0.530	ug/L	0.0502	-0.530	ug/L	0.0502	9.47%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	213.4	1.688	ug/L	0.9496	1.688	ug/L	0.9496	56.25%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	-83.5	-3.057	ug/L	0.8877	-3.057	ug/L	0.8877	29.04%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	309.1	143.6	ug/L	62.46	143.6	ug/L	62.46	43.49%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	47.3	2.446	ug/L	0.2446	2.446	ug/L	0.2446	10.00%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	13.0	0.243	ug/L	0.1483	0.243	ug/L	0.1483	60.97%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	4.5	0.097	ug/L	0.3046	0.097	ug/L	0.3046	314.98%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	412.2	32.29	ug/L	11.846	32.29	ug/L	11.846	36.69%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-19.7	-0.283	ug/L	0.1420	-0.283	ug/L	0.1420	50.13%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	138.2	18.08	ug/L	3.681	18.08	ug/L	3.681	20.36%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-2.6	-0.161	ug/L	0.3351	-0.161	ug/L	0.3351	208.16%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	12.2	1.892	ug/L	0.5686	1.892	ug/L	0.5686	30.06%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	6.9	1.190	ug/L	2.1169	1.190	ug/L	2.1169	177.89%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	0.7	0.080	ug/L	1.0544	0.080	ug/L	1.0544	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	251.0	0.262	ug/L	0.1311	0.262	ug/L	0.1311	50.06%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	10.0	0.240	ug/L	0.2631	0.240	ug/L	0.2631	109.54%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.0	1.131	ug/L	0.5731	1.131	ug/L	0.5731	50.65%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	43.7	0.172	ug/L	0.6800	0.172	ug/L	0.6800	395.90%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-127.3	-1.264	ug/L	0.0712	-1.264	ug/L	0.0712	5.64%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/05/12	12/05/12	#6010B-121205A-AY72370

Metals SC-Blank-REG MDLs
Printed: 12/07/12 8:30:35 AM

Sequence No.: 59
Sample ID: 121205A-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 134
Date Collected: 12/05/12 2:12:11 PM
Data Type: Reprocessed on 12/06/12 10:13:20 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121205A-3050-BLK

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-72.2	-0.556	ug/L	0.5072	-0.022	mg/kg	0.0203	91.25%
Al 308.215	12.2	7.256	ug/L	3.5931	0.290	mg/kg	0.1437	49.52%
As 188.979	4.6	0.822	ug/L	1.2092	0.033	mg/kg	0.0484	147.14%
B	27.8	6.798	ug/L	2.9508	0.272	mg/kg	0.1180	43.41%
Ba 233.527	34.0	0.196	ug/L	0.0731	0.008	mg/kg	0.0029	37.27%
Be 313.107	-458.6	-0.069	ug/L	0.0119	-0.003	mg/kg	0.0005	17.37%
Ca 315.887	496.9	40.15	ug/L	0.953	1.606	mg/kg	0.0381	2.37%
Cd 214.440	113.4	0.284	ug/L	0.0570	0.011	mg/kg	0.0023	20.11%
Co 228.616	1.4	0.023	ug/L	0.3534	0.001	mg/kg	0.0141	>999.9%
Cr 267.716	99.2	0.647	ug/L	0.1586	0.026	mg/kg	0.0063	24.51%
Cu 327.393	178.0	1.408	ug/L	1.0689	0.056	mg/kg	0.0428	75.91%
Fe 273.955	10.5	0.387	ug/L	0.8541	0.015	mg/kg	0.0342	220.67%
K 766.490	78.0	36.23	ug/L	57.886	1.449	mg/kg	2.3154	159.77%
Mg 285.213	42.8	2.219	ug/L	0.6536	0.089	mg/kg	0.0261	29.45%
Mn 257.610	21.1	0.395	ug/L	0.1938	0.016	mg/kg	0.0078	49.09%
Mo 202.031	67.0	1.461	ug/L	0.2579	0.058	mg/kg	0.0103	17.65%
Na 589.592	231.4	18.14	ug/L	1.451	0.725	mg/kg	0.0580	8.00%
Ni 231.604	-91.7	-1.318	ug/L	0.1020	-0.053	mg/kg	0.0041	7.74%
P 213.617	84.5	11.06	ug/L	1.107	0.442	mg/kg	0.0443	10.01%
Pb 220.353	-28.2	-1.718	ug/L	0.1411	-0.069	mg/kg	0.0056	8.21%
Sb 206.836	-2.8	-0.427	ug/L	0.7139	-0.017	mg/kg	0.0286	167.33%
Se 196.026	3.4	0.578	ug/L	2.7728	0.023	mg/kg	0.1109	479.50%
Sn 189.927	-5.5	-0.644	ug/L	0.3251	-0.026	mg/kg	0.0130	50.51%
Sr 421.552	260.2	0.271	ug/L	0.1835	0.011	mg/kg	0.0073	67.69%
Ti 337.279	1.5	0.036	ug/L	0.5071	0.001	mg/kg	0.0203	>999.9%
Tl 190.801	-4.2	-0.594	ug/L	0.6477	-0.024	mg/kg	0.0259	108.95%
V 292.402	-33.0	-0.105	ug/L	0.1573	-0.004	mg/kg	0.0063	149.42%
Zn 206.200	106.3	1.061	ug/L	0.1474	0.042	mg/kg	0.0059	13.89%

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.3	103	80-120	12/05/12	12/05/12	#6010B-121205A-AY72370

Comments: _____

Sequence No.: 60
Sample ID: 121205A-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 135
Date Collected: 12/05/12 2:16:36 PM
Data Type: Reprocessed on 12/06/12 10:13:21 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121205A-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	12819.8	98.70	ug/L	2.630	3.948	mg/kg	0.1052	2.67%
Al 308.215	3336.1	2001	ug/L	11.5	80.06	mg/kg	0.459	0.57%
As 188.979	1333.0	239.0	ug/L	1.10	9.560	mg/kg	0.0440	0.46%
B	1020.5	251.6	ug/L	3.90	10.07	mg/kg	0.156	1.55%
Ba 233.527	42056.3	243.7	ug/L	4.04	9.746	mg/kg	0.1617	1.66%
Be 313.107	329721.9	49.32	ug/L	0.827	1.973	mg/kg	0.0331	1.68%
Ca 315.887	315129.0	25470	ug/L	156.6	1019	mg/kg	6.3	0.61%
Cd 214.440	20283.7	50.59	ug/L	0.213	2.024	mg/kg	0.0085	0.42%
Co 228.616	18810.4	257.4	ug/L	1.02	10.30	mg/kg	0.041	0.40%
Cr 267.716	39782.2	259.8	ug/L	3.82	10.39	mg/kg	0.153	1.47%
Cu 327.393	29894.5	236.4	ug/L	2.83	9.458	mg/kg	0.1130	1.19%
Fe 273.955	28097.3	1001	ug/L	13.2	40.04	mg/kg	0.528	1.32%
K 766.490	10385.1	4823	ug/L	75.0	192.9	mg/kg	3.00	1.56%
Mg 285.213	482977.3	25060	ug/L	127.5	1002	mg/kg	5.1	0.51%
Mn 257.610	14090.2	263.0	ug/L	0.77	10.52	mg/kg	0.031	0.29%
Mo 202.031	12170.5	265.6	ug/L	1.18	10.62	mg/kg	0.047	0.45%
Na 589.592	305873.3	24000	ug/L	113.6	959.9	mg/kg	4.54	0.47%
Ni 231.604	18052.7	258.9	ug/L	1.05	10.36	mg/kg	0.042	0.40%
P 213.617	14766.4	1932	ug/L	7.7	77.26	mg/kg	0.310	0.40%
Pb 220.353	4214.2	257.0	ug/L	1.02	10.28	mg/kg	0.041	0.40%
Sb 206.836	1541.6	239.1	ug/L	1.19	9.562	mg/kg	0.0476	0.50%
Se 196.026	1335.3	229.6	ug/L	0.88	9.183	mg/kg	0.0352	0.38%
Sn 189.927	2311.2	269.8	ug/L	1.33	10.79	mg/kg	0.053	0.49%
Sr 421.552	234987.5	244.9	ug/L	1.06	9.795	mg/kg	0.0425	0.43%
Ti 337.279	10888.2	263.1	ug/L	0.94	10.52	mg/kg	0.038	0.36%
Tl 190.801	1731.9	245.7	ug/L	1.42	9.828	mg/kg	0.0567	0.58%
V 292.402	64120.9	262.1	ug/L	3.64	10.48	mg/kg	0.146	1.39%
Zn 206.200	51385.7	512.2	ug/L	8.56	20.49	mg/kg	0.342	1.67%

Metals Standards Log Book # 36

050

BC 12/4/12

6020/6020A

(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A

Today's Date 12/04/12
Expires 12/11/12
Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL DI Water
Lot #L12065
20 mL HCL / 2000mL DI Water
Lot #51358
Expires 12/11/12

Internal Standard Mix: Prep 11/29/2012

Standard 4 12/11/12

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1 0% HCL 12/04/12

Standard 3 12/11/12

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	ABS STDS	012512-30926
25 uL	CCV-B	ABS STDS	021312-30928
25 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1 0% HCL 12/04/12

Intermediate-Sb 12/11/12
100 uL of Sb STD (CPI 12A011-30298) in 10 mL of 1% HNO3/1 0% HCL
ICV-Sb 12/11/12
100 uL of Intermediate-Sb in 10 mL of 1% HNO3/1.0% HCL

BC 12/4/12

Standard 2 12/11/12

Amount	STD	
500 uL	Standard 4	12/04/12

Prepared in 50 mL of 1% HNO3/1 0% HCL 12/04/12

Standard 1 12/11/12

Amount	STD	
50 uL	Standard 4	12/04/12

Prepared in 50 mL of 1% HNO3/1 0% HCL 12/04/12

ICP-MS ICV 12/11/12

Amount	STD		
50 uL	QCS ICV A	CPI	11C184-30611
50 uL	QCS ICV B	CPI	11C184-30612

Prepared in 50 mL of 1% HNO3/1.0% HCL 12/04/12

ICSA Prep: 12/11/12

1 mL	ICSA	CPI	12I082-31307

Prepared in 5 mL of 1% HNO3/1 0% HCL 12/04/12

ICSAB Prep: 12/11/12

1mL	ICSA	CPI	12I082-31307
0 025mL	INT	O2SI	1032370-30265

Prepared in 5 mL of 1% HNO3/1 0% HCL 12/04/12

ICP-LDR 12/11/12

Amount	STD		
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 10 mL of 1% HNO3/1 0% HCL 12/04/12

~~LO 12/3/12~~ (1) LO 12/4/12

LO ~~12/03/12~~
LO (1) 12/04/12

Hg WORKING STANDARD 7470A/7471/245.1

1ml X 10ug/ml Hg STOCK STD. (12/03/12LO)/200ml 1% HNO3 Lot#L12065
1ml X 10ug/ml Hg STOCK ICV (12/03/12LO)/200ml 1% HNO3 Lot#L12065
Final concentration is 50 ug/L. Expires daily

LO 12/4/12

EA 6010B-C

(4)

12-5-12

1%HNO3 / 5%HCl BLK		MANUFACTURER	LOT	OPEN DATE
AMOUNT	REAGENT			
100 mL	HCL	EMD	UN1789-265	10/22/12
20 mL	HNO3	JT BAKER	L10023-266	10/24/12
Prepared in 2000 ml DI Water				

STD 1 / LDL 6010B/6010C		MANUFACTURER	LOT	EXP DATE
AMOUNT	STD			
0.5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13
Prepared in 50 ml 1%-HNO3/5%-HCl				

STD 3 / HDL 6010B/6010C				
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15
Prepared in 100 ml 1%-HNO3 / 5%-HCl				

STD 2 / CCV1 6010B/6010C/6010C		PREP DATE	EXP DATE
AMOUNT	STD		
25mL	STD 3	Today	1 week
25mL	1%-HNO3/5%-HCl	Today	1 week

CCV2 6010B/6010C		PREP DATE	EXP DATE
AMOUNT	STD		
15mL	STD 3	Today	1 week
25mL	1%-HNO3/5%-HCl	Today	1 week

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 1%-HNO3/5%-HCl				

6010B/6010C ICSAB				
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 50 ml 1%-HNO3/5%-HCl				

6010B/6010C ICV				
0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 1%-HNO3/5%-HCl				

EA 12.5.12

~~LO 12/5/12~~

LO 12/05/12

Hg WORKING STANDARDS 7470A/7471/245.1			
Hg WORKING STD	1ml 10ug/ml Hg STOCK STD. 12/03/12 and 2mL HNO3 JT Baker LOT#L12065 to final vol 200mL with milipore water	exp:	12/31/12 final conc: 50ug/L expires daily
Hg WORKING ICV	1ml 10ug/ml Hg STOCK ICV 12/03/12 and 2mL HNO3 JT Baker LOT#L12065 to final vol 200mL with milipore water	exp:	12/31/12 final conc: 50ug/L expires daily

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121205A **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 1039704-31514		
Spiked ID 2	LCSW LOT# 1039705-31515		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	12/05/12 8:10:00 AM
Witnessed By	BC	Date:	12/05/12 8:10:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	12/05/12 14:00

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121205A Blk				2.50g	100mL	12/05/12 8:10	equip: Modblock4
2	121205A LCS		1mL	1+2	2.50g	100mL	12/05/12 8:10	equip: Modblock4
3	AY71797	AY71797M01			1.93g	100mL	12/05/12 8:10	equip: Modblock4
4	AY71800	AY71800M01			1.62g	100mL	12/05/12 8:10	equip: Modblock4
5	AY71803	AY71803M01			1.42g	100mL	12/05/12 8:10	equip: Modblock4
6	AY71930	AY71930M01			2.54g	100mL	12/05/12 8:10	equip: Modblock4
7	AY71933	AY71933M01			2.18g	100mL	12/05/12 8:10	equip: Modblock4
8	AY72186	AY72186M01			2.56g	100mL	12/05/12 8:10	equip: Modblock4
9	AY72187	AY72187M01			2.54g	100mL	12/05/12 8:10	equip: Modblock4
10	AY72189	AY72189M01			2.57g	100mL	12/05/12 8:10	equip: Modblock4
11	AY72190	AY72190M01			2.44g	100mL	12/05/12 8:10	equip: Modblock4
12	AY72369	AY72369M01			2.45g	100mL	12/05/12 8:10	equip: Modblock4
13	AY72370	AY72370M01			2.50g	100mL	12/05/12 8:10	equip: Modblock4
14	AY72370 MS	AY72370M01	2mL	1+2	2.50g	100mL	12/05/12 8:10	equip: Modblock4
15	AY72370 MSD	AY72370M01	2mL	1+2	2.50g	100mL	12/05/12 8:10	equip: Modblock4

Solvent and Lot#
:1 HNO3 11-9-12
HNO3 J.T.B. L10023 0280
H2O2 J.T.B K20J00 0254
HCL EMD Lot# 4112030 0278

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	EA
Date	12-5-12
Time	14:00
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	12/05/12 10:48:24 AM

Reviewed By: EA **Date:** 12-5-12

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	05 Dec 2012	09:41	CalBlk 121205EA I:PB O:EA		121205A6010	1.
2	05 Dec 2012	09:46	STD 1 121205EA I:PB O:EA		121205A6010	1.
3	05 Dec 2012	09:50	STD 2 121205EA I:PB O:EA		121205A6010	1.
4	05 Dec 2012	09:53	STD 3 121205EA I:PB O:EA		121205A6010	1.
5	05 Dec 2012	09:57	ICV 121205EA I:PB O:EA		121205A6010	1.
6	05 Dec 2012	10:00	ICB 121205EA I:PB O:EA		121205A6010	1.
8	05 Dec 2012	10:13	ICSA 121205EA I:PB O:EA		121205A6010	1.
9	05 Dec 2012	10:18	ICSAB 121205EA I:PB O:EA		121205A6010	1.
10	05 Dec 2012	10:22	CCV1 121205EA I:PB O:EA		121205A6010	1.
11	05 Dec 2012	10:26	CCB 121205EA I:PB O:EA		121205A6010	1.
57	05 Dec 2012	14:03	CCV1 121205EA I:PB O:EA		121205A6010	1.
58	05 Dec 2012	14:07	CCB 121205EA I:PB O:EA		121205A6010	1.
59	05 Dec 2012	14:12	121205A-3050-BLK		121205A6010	1.
60	05 Dec 2012	14:16	121205A-3050-LCS		121205A6010	1.
68	05 Dec 2012	15:23	CCV2 121205EA I:PB O:EA		121205A6010	1.
69	05 Dec 2012	15:29	CCB 121205EA I:PB O:EA		121205A6010	1.
70	05 Dec 2012	15:34	AY72187M01		121205A6010	1.
72	05 Dec 2012	15:45	AY72190M01		121205A6010	1.
79	05 Dec 2012	16:25	CCV1 121205EA I:PB O:EA		121205A6010	1.
80	05 Dec 2012	16:37	CCB 121205EA I:PB O:EA		121205A6010	1.

Wetlab Results

ARF: 69367

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
APPL ID: AY72187	-Client Sample ID: GT12030M		-Sample Collection Date: 11/24/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	75.6	2.0	%	12/04/12	12/05/12
APPL ID: AY72190	-Client Sample ID: GT12031M		-Sample Collection Date: 11/24/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	75.8	2.0	%	12/04/12	12/05/12

Printed: 12/07/12 10:48:03 AM

WETLAB

Sample/Sample Duplicate Results

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Project: 748350.02000 CSSA

Sample ID: AY72187
Client ID: GT12030M

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

ARF: 69367

Method	Analyte	Sample ID	Sample Result	Sample Dup Result	RPD	RPD Max	PQL	Units	Sample Extract Date	Sample Analysis Date	Sample Dup Extract Date	Sample Dup Analysis Date
CLP MOIS	MOISTURE	AY72187	75.6	75.5	0.1	20	2.0	%	12/04/12	12/05/12	12/04/12	12/05/12

% Moisture

Batch: QCG 121204-M004570

Method: CLP 4.0

Date: 12/04/12 16:34

Sample	Container	Pan (g)	Pan+Wet (g)	Pan+Dry 1 (g)	Pan+Dry 2 (g)	Moisture (%)	Comments
AY72370	m01	0.8329 12/04/12 16:34	7.5718 12/04/12 16:35	2.5775 12/05/12 08:04	2.5775 12/05/12 08:04	74.112	ay72370m01
AY72190	m01	0.8409 12/04/12 16:33	8.6813 12/04/12 16:34	2.7348 12/05/12 08:04	2.7349 12/05/12 08:04	75.843	ay72190m01
AY72187D	m01	0.8289 12/04/12 16:32	8.8571 12/04/12 16:33	2.7975 12/05/12 08:04	2.7974 12/05/12 08:04	75.480	ay72187m01
AY72187	m01	0.8392 12/04/12 16:31	8.5425 12/04/12 16:32	2.7222 12/05/12 08:03	2.7221 12/05/12 08:03	75.557	ay72187m01

Date/Time InOven@104°C	Date/Time OutOven@104°C	Date/Time InOven@104°C	Date/Time OutOven@104°C
12/04/12 4:35:00 PM			12/05/12 8:04:00 AM

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
11/29/12	BB	Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0004 g	19.9800	20.0200	
		Mettler AT200	50g	50.0005 g	49.9500	50.0500	
		Mettler AT200	100g	100.0012 g	99.9000	100.1000	
		Mettler AT200	150g	150.0016 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.01 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
11/30/12	BB						Yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0003 g	19.9800	20.0200	
		Mettler AT200	50g	50.0005 g	49.9500	50.0500	
		Mettler AT200	100g	100.0010 g	99.9000	100.1000	
		Mettler AT200	150g	150.0015 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
12/3/12	AP	Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0001 g	0.9990	1.0010	
		Mettler AT200	20g	20.0000 g	19.9800	20.0200	
		Mettler AT200	50g	50.0005 g	49.9500	50.0500	
		Mettler AT200	100g	100.0009 g	99.9000	100.1000	
		Mettler AT200	150g	150.0014 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	999.99 g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.99 g	1960.00	2040.00	
12/4/12	BB						Yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0006 g	0.9990	1.0010	
		Mettler AT200	20g	20.0000 g	19.9800	20.0200	
		Mettler AT200	50g	50.0001 g	49.9500	50.0500	
		Mettler AT200	100g	100.0004 g	99.9000	100.1000	
		Mettler AT200	150g	150.0005 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	999.98 g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.96 g	1960.00	2040.00	

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
12-5-12	CK	Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0001 g	19.9800	20.0200	
		Mettler AT200	50g	50.0002 g	49.9500	50.0500	
		Mettler AT200	100g	100.0006 g	99.9000	100.1000	
		Mettler AT200	150g	150.0009 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	999.98 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
12/6/12	BB						Yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0001 g	19.9800	20.0200	
		Mettler AT200	50g	50.0002 g	49.9500	50.0500	
		Mettler AT200	100g	100.0004 g	99.9000	100.1000	
		Mettler AT200	150g	150.0006 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.01 g	1960.00	2040.00	
12/7/12	BB						Yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0001 g	19.9800	20.0200	
		Mettler AT200	50g	50.0002 g	49.9500	50.0500	
		Mettler AT200	100g	100.0003 g	99.9000	100.1000	
		Mettler AT200	150g	150.0005 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.01 g	1960.00	2040.00	
		Mettler AT200	0.5g	g	0.4995	0.5005	
		Mettler AT200	1g	g	0.9990	1.0010	
		Mettler AT200	20g	g	19.9800	20.0200	
		Mettler AT200	50g	g	49.9500	50.0500	
		Mettler AT200	100g	g	99.9000	100.1000	
		Mettler AT200	150g	g	149.8500	150.1500	
		OHAUS ARC120	0.1g	g	0.08	0.12	
		OHAUS ARC120	0.5g	g	0.48	0.52	
		OHAUS ARC120	1g	g	0.98	1.02	
		OHAUS ARC120	100g	g	98.00	102.00	
		OHAUS ARC120	1kg	g	980.00	1020.00	
		OHAUS ARC120	2kg	g	1960.00	2040.00	

Laboratory Report

Parsons

Project #: 748350.02000 CSSA

ARF: 69412

Samples collected: November 28, 2012

APPL, Inc.

Data Validatable Package

for

Project #: 748350.02000 CSSA

ARF 69412

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CASE NARRATIVE

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

EPA Method 6010B
Metals

Case Narrative

ARF: 69412

Project: 748350.02000 CSSA

California State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Texas Certificate Number: T104704242-10-3

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

Two miscellaneous samples were received November 30, 2012, at 2.5°C. The samples were assigned Analytical Request Form (ARF) number 69412. The sample numbers and requested analyses were compared to the chain of custody. No exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
GT12032B	AY72368	MISC	11/28/12	11/30/12
GT12032L	AY72369	MISC	11/28/12	11/30/12

Percent moisture was determined using CLP 4.0 for the liver sample. Percent moisture was not determined on the bone sample.

Digestion Information:

The liver sample was frozen and homogenized according to APPL's SOP PRE003. The bone sample was dried in the oven at 104°C; once dried, a drill was used to "shave" the bone and obtain a representative sample. For sample GT12032B, less than 2.5grams was digested because of the difficulty in shaving the bone. An aliquot of the homogenized liver sample and bone was digested according to EPA method 3050B. Since the laboratory was unable to obtain a similar clean matrix, the blanks and the LCS were digested according to APPL's SOP PRE3050B. No other exception was encountered. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed according to EPA method 6010B using a Perkin Elmer Optima 5300DV ICP.

Calibrations:

Calibrations were performed according to the method for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard. All other calibration acceptance criteria were met.

Blanks:

No target metal was detected above the reporting limit (RL) in the method blanks.

Spikes:

Laboratory Control Spikes (LCS), post-digestion spike (PDS), and dilution test were used for quality assurance. All LCS acceptance criteria were met.

For the 121205A analytical batch, sample GT12032M (APPL SDG #69413) was selected as the QC sample. The dilution test was not applicable. The PDS recovery was acceptable.

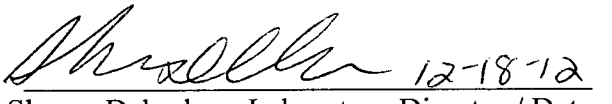
For the 121210A analytical batch, sample GT12032B was selected as the QC sample. The dilution test was not applicable. The PDS recovered below the 75% lower control limit at 72.0%. The associated sample is flagged with a "J" in accordance with the CSSA QAPP.

Summary:

No other analytical exception is noted.

CERTIFICATION

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. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.



Sharon Dehmlow, Laboratory Director / Date

APPL Inc.
Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer.
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other – (See case narrative)
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel
U	Not detected
Y	Percent difference between primary and confirmation column > 40%

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 69412

Client: **Parsons**
Address: **8000 Centre Park Drive Ste 200**
Austin, TX 78754
Attn: **Tammy Chang**
Phone: **512-719-6092** Fax: **512-719-6099**
Job: **748350.02000 CSSA**
PO #: **748350.30002 (prime *G012)**
Chain of Custody (Y/N): **Y** # **112912APPFA**
EDD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **STD**

Received by: **WLA**
Date Received: **11/30/12** Time: **10:50**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-6**
Chest Temp(s): **2.5°C**
Color: **A_FREZ**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Diane Anderson** MP
QC Report Type: **DVP4/AFCEE/ERPIMS/TX**
Due Date: **12/21/12**

Comments:
df ARF to Tammy & Pam; send 1 DVP3 HC & send DVP3 & DVP4 on CD to Tammy.

Case Narrative. CSSA QAPP. Only report MS/MSD when requested.
Report results on APPL forms: U to the RL-no J values; report results in wet weight (without moisture correction)
Wait to do moisture analysis after metals analysis.
EDD: ERPIMS 4 Lab PC4 checked TXF to Pamela.Ford@parsons.com

12-3 Sent ARF

Sample Distribution:
Metals: 2-$6010BDODS(Pb)
Wetlab: 1-MOIST
Other: 2-_M3050

Charges:

Invoice To:
PARSONS GOV'T SERV.
8000 Centre Park Drive Ste 200
Austin, TX 78754-5140
Attn: Ellen Felfe

	Client ID	APPL ID	Sampled	Analyses Requested
.	GT12032B	AY72368M	11/28/12 20:00	$6010BDODS(Pb)
!.	GT12032L	AY72369M	11/28/12 20:00	$6010BDODS(Pb), MOIST

Note: All times, excluding sample collection times, are Pacific Time Zone unless noted otherwise. Collection times are in: -6 UTC

APPL Sample Receipt Form

ARF# **69412**

Sample	Container Type	Count	pH
AY72368	[35] Plastic Bag	1	NA
AY72369	[35] Plastic Bag	1	NA

Sample	Container Type	Count	pH

Camp Stanley Storage Activity Chain Of Custody

2.5°C
64462/64463

COC ID:	112912APPFA	Relinquish_Date:	11/29/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF
Job Number:	748350.02	Relinquish_Time:	3:00 PM	Carrier:	FedEx
Creation Date:	11/29/2012	Collection Team:	SE	Airbill Carrier:	876436444134
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): San Elliott
S. Elliott

LOCID: **GT12032B** LOGDATE: **11/28/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **20:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12032B_112812_N2000** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12032L** LOGDATE: **11/28/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **20:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12032L_112812_N2000** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12032M** LOGDATE: **11/28/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **20:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12032M_112812_N2000** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

Relinquished by: S. Elliott Date 11/29/12 Time 1500
Recieved by: [signature] Date 11/30/12 Time 1645

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date _____ Time _____

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date _____ Time _____

COOLER RECEIPT FORM

1) Project: 748350.02 CSSA Date Received: 11/30/12

2) Coolers: Number of Coolers: 1

3) YES NO Were coolers and samples screened for radioactivity?

4) YES NO Were custody seals on outside of cooler? How many? 1 Date on seal? 11/29/12

5) Name on seal? See label

6) YES NO NA Were custody seals unbroken and intact at the time of arrival?

7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex

8) Shipping slip numbers: 1) 8764 3644 4134 2) 3)

9) YES NO NA Was the shipping slip scanned into the database?

10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Ziploc in wet ice

12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?

13) YES NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: T5297 Correction factor: 0

15) Cooler temp(s): 1) 2.5°C 2) 3) 4) 5) 6) 7) 8)

Chain of custody:

16) YES NO Was a chain of custody received?

17) YES NO Were the custody papers signed in the appropriate places?

18) YES NO Was the project identifiable from custody papers?

19) YES NO Did the chain of custody include date and time of sampling?

20) YES NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) YES NO Were container labels in good condition?

22) YES NO Was the client ID on the label?

23) YES NO Was the date of sampling on the label?

24) YES NO Was the time of sampling on the label?

25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?

27) YES NO Did all containers arrive unbroken?

28) YES NO Was there any leakage from samples?

29) YES NO Were any of the lids cracked or broken?

30) YES NO Were correct containers used for the tests indicated?

31) YES NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea:

Smaller than a pea:

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO NA Unpreserved VOA Vials received?

38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

CUSTODY SEAL 11-29-12
Date & Time Collected
Sample #
Signature

Lab notified if pH was not adequate:

Deficiencies:

Signature of personnel receiving samples: Second reviewer:

Signature of project manager notified: Date and Time of notification:

Name of client notified: Date and Time of notification:

Information given to client:

by whom (Initials):

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/10/12	12/11/12	#6010B-121210A-AY72368
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/05/12	12/05/12	#6010B-121205A-AY72370

Metals SC-Blank-REG MDLs
Printed: 12/13/12 3:08:24 PM

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.3	103	80-120	12/05/12	12/05/12	#6010B-121205A-AY72370

Comments: _____

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	9.4	94.0	80-120	12/10/12	12/11/12	#6010B-121210A-AY72368

Comments: _____

METALS
Sample Data

APPL, INC.

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12032B
Sample Collection Date: 11/28/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69412
APPL ID: AY72368

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.36 J	0.50	mg/kg	1	12/10/12	12/11/12

J = Estimated value.

Printed: 12/13/12 4:42:48 PM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 121
Sample ID: AY72368M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2 g
Dilution:

Autosampler Location: 55
Date Collected: 12/11/12 7:56:27 PM
Data Type: Reprocessed on 12/12/12 9:41:33 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72368M01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	375.4	2.945	ug/L	0.1158	0.147	mg/kg	0.0058	3.93%
Al 308.215	131.9	34.10	ug/L	5.144	1.705	mg/kg	0.2572	15.09%
As 188.979	50.3	9.608	ug/L	1.8027	0.480	mg/kg	0.0901	18.76%
B	138.7	-11.86	ug/L	0.928	-0.593	mg/kg	0.0464	7.82%
Ba 233.527	82573.4	507.3	ug/L	4.42	25.37	mg/kg	0.221	0.87%
Be 313.107	-4273.9	-0.685	ug/L	0.0270	-0.034	mg/kg	0.0013	3.94%
Ca 315.887	23116302.3	1936000	ug/L	20576.0	96810	mg/kg	1028.8	1.06%
Cd 214.440	461.5	-3.989	ug/L	0.0703	-0.199	mg/kg	0.0035	1.76%
Co 228.616	326.7	-2.567	ug/L	0.3015	-0.128	mg/kg	0.0151	11.74%
Cr 267.716	7332.0	47.38	ug/L	0.317	2.369	mg/kg	0.0159	0.67%
Cu 327.393	-557.9	-6.118	ug/L	1.9808	-0.306	mg/kg	0.0990	32.38%
Fe 273.955	29282.3	1091	ug/L	6.9	54.54	mg/kg	0.343	0.63%
K 766.490	20313.4	7214	ug/L	78.4	360.7	mg/kg	3.92	1.09%
Mg 285.213	706739.2	36030	ug/L	291.3	1802	mg/kg	14.6	0.81%
Mn 257.610	706.8	3.760	ug/L	0.2421	0.188	mg/kg	0.0121	6.44%
Mo 202.031	22.1	-9.323	ug/L	0.1055	-0.466	mg/kg	0.0053	1.13%
Na 589.592	795563.0	60010	ug/L	443.0	3001	mg/kg	22.2	0.74%
Ni 231.604	233637.6	3698	ug/L	24.8	184.9	mg/kg	1.24	0.67%
P 213.617	5987330.5	861900	ug/L	3485.4	43100	mg/kg	174.3	0.40%
Pb 220.353	105.4	7.255	ug/L	0.5929	0.363	mg/kg	0.0296	8.17%
Sb 206.836	-13.4	-2.136	ug/L	0.7660	-0.107	mg/kg	0.0383	35.87%
Se 196.026	28.2	-23.44	ug/L	1.670	-1.172	mg/kg	0.0835	7.13%
Sn 189.927	127.7	18.01	ug/L	1.247	0.900	mg/kg	0.0623	6.92%
Sr 421.552	353838.4	338.5	ug/L	3.32	16.92	mg/kg	0.166	0.98%
Ti 337.279	6720.4	149.3	ug/L	0.34	7.465	mg/kg	0.0169	0.23%
Tl 190.801	-16.5	-2.486	ug/L	0.8039	-0.124	mg/kg	0.0402	32.33%
V 292.402	434.5	0.494	ug/L	0.0884	0.025	mg/kg	0.0044	17.90%
Zn 206.200	68412.8	790.9	ug/L	5.61	39.55	mg/kg	0.280	0.71%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12032L
Sample Collection Date: 11/28/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69412
APPL ID: AY72369

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	12/05/12	12/05/12

Printed: 12/13/12 4:42:48 PM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 73
Sample ID: AY72369M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.45 g
Dilution:

Autosampler Location: 145
Date Collected: 12/05/12 3:50:53 PM
Data Type: Reprocessed on 12/06/12 10:13:37 AM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72369M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	147.4	1.135	ug/L	0.1819	0.046	mg/kg	0.0074	16.03%
Al 308.215	-0.1	-0.100	ug/L	11.3052	-0.004	mg/kg	0.4614	>999.9%
As 188.979	10.7	1.918	ug/L	0.8629	0.078	mg/kg	0.0352	45.00%
B	18.1	21.12	ug/L	0.811	0.862	mg/kg	0.0331	3.84%
Ba 233.527	668.0	0.962	ug/L	0.1102	0.039	mg/kg	0.0045	11.46%
Be 313.107	-109.3	-0.016	ug/L	0.0047	-0.001	mg/kg	0.0002	28.57%
Ca 315.887	17047.1	1372	ug/L	21.7	56.00	mg/kg	0.886	1.58%
Cd 214.440	1365.2	3.214	ug/L	0.0300	0.131	mg/kg	0.0012	0.93%
Co 228.616	113.1	1.447	ug/L	0.1518	0.059	mg/kg	0.0062	10.49%
Cr 267.716	434.6	2.787	ug/L	0.0574	0.114	mg/kg	0.0023	2.06%
Cu 327.393	269680.9	2133	ug/L	13.6	87.06	mg/kg	0.556	0.64%
Fe 273.955	136265.8	4960	ug/L	36.3	202.4	mg/kg	1.48	0.73%
K 766.490	162698.4	75590	ug/L	768.8	3085	mg/kg	31.4	1.02%
Mg 285.213	88633.6	4603	ug/L	21.9	187.9	mg/kg	0.89	0.48%
Mn 257.610	4024.8	75.44	ug/L	0.147	3.079	mg/kg	0.0060	0.20%
Mo 202.031	967.2	21.69	ug/L	0.182	0.885	mg/kg	0.0074	0.84%
Na 589.592	184723.0	14470	ug/L	99.8	590.4	mg/kg	4.07	0.69%
Ni 231.604	-54.4	-0.816	ug/L	0.0863	-0.033	mg/kg	0.0035	10.58%
P 213.617	628473.8	82210	ug/L	397.6	3355	mg/kg	16.2	0.48%
Pb 220.353	-13.2	-0.806	ug/L	0.3909	-0.033	mg/kg	0.0160	48.53%
Sb 206.836	-0.3	-0.045	ug/L	0.5644	-0.002	mg/kg	0.0230	>999.9%
Se 196.026	194.8	33.84	ug/L	1.535	1.381	mg/kg	0.0627	4.54%
Sn 189.927	-64.0	-7.474	ug/L	1.0660	-0.305	mg/kg	0.0435	14.26%
Sr 421.552	1077.9	1.294	ug/L	0.1614	0.053	mg/kg	0.0066	12.47%
Ti 337.279	29.9	0.324	ug/L	0.0404	0.013	mg/kg	0.0016	12.47%
Tl 190.801	-6.5	-0.926	ug/L	0.7048	-0.038	mg/kg	0.0288	76.14%
V 292.402	126.1	-0.359	ug/L	0.5926	-0.015	mg/kg	0.0242	165.13%
Zn 206.200	100960.2	1001	ug/L	10.8	40.86	mg/kg	0.439	1.07%

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No: 69412 SDG: 69412

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 12/05/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:57	%R(1)	True CCV1	Found 10:22	%R(1)	True CCV1	Found 14:03	%R(1)	
Lead (Pb)	1000	1048	105	1000	1063	106	1000	1037	104	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No: 69412 SDG: 69412

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 12/05/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:57	%R(1)	True CCV2	Found 15:23	%R(1)	True CCV1	Found 16:25	%R(1)	
Lead (Pb)	1000	1048	105	750	804.9	107	1000	1028	103	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69412 SDG: 69412

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 12/05/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C			
	10:00		10:26		14:07		15:29		14:12				
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U		P	

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69412 SDG: 69412

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 12/05/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	10:00		16:37						14:12		
Lead (Pb)	5.00	U	5.00	U					.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name:	A.P.P.L. INC.	Contract:	Parsons
ARF No.:	69412	SDG:	69412
ICP ID Number:	Phoebe	ICS Source:	Environmental Express

Analysis Date: 12/05/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 10:13	Sol AB 10:18	%R(1)
Aluminum (Al)	200000	200000	190700	190500	95.3
Calcium (Ca)	200000	200000	192600	192400	96.2
Iron (Fe)	200000	200000	178100	176300	88.2
Magnesium (Mg)	200000	200000	187100	187200	93.6
Lead (Pb)		1000	1.078	941.2	94.1

(1) Control Limits: Metals 80-120

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69412 SDG: 69412
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 12/11/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 10:26	%R(1)	True CCV1	Found 10:48	%R(1)	True CCV1	Found 19:11	%R(1)	
Lead (Pb)	1000	1045	105	1000	1049	105	1000	969.1	96.9	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69412 SDG: 69412
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 12/11/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 10:26	%R(1)	True CCV2	Found 20:12	%R(1)	True	Found	%R(1)	
Lead (Pb)	1000	1045	105	750	774.6	103				P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69412 SDG: 69412

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 12/11/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C		
	10:30		10:53		19:15		20:19		19:19			
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U	P	

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name:	A.P.P.L. INC.	Contract:	Parsons
ARF No.:	69412	SDG:	69412
ICP ID Number:	Phoebe	ICS Source:	Environmental Express

Analysis Date: 12/11/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 10:39	Sol AB 10:44	%R(1)
Aluminum (Al)	200000	200000	189000	189000	94.5
Calcium (Ca)	200000	200000	190700	190900	95.5
Iron (Fe)	200000	200000	176000	174700	87.3
Magnesium (Mg)	200000	200000	186800	186600	93.3
Lead (Pb)		1000	0.314	921.9	92.2

(1) Control Limits: Metals 80-120

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

GT12032B

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69412 SDG: 69412

Analysis Date: 12/11/12 Concentration Units: mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	18.35		0.363		25.000	72.0		M

Comments:

12/11/12 19:56 AY72368M01

12/11/12 20:02 AY72368M01-A

Sequence No.: 122
Sample ID: AY72368M01-A
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2 g
Dilution:

Autosampler Location: 56
Date Collected: 12/11/12 8:02:06 PM
Data Type: Reprocessed on 12/12/12 9:41:34 AM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72368M01-A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	21519.6	168.8	ug/L	0.95	8.442	mg/kg	0.0474	0.56%
Al 308.215	5278.0	3118	ug/L	69.5	155.9	mg/kg	3.48	2.23%
As 188.979	2010.5	384.2	ug/L	0.34	19.21	mg/kg	0.017	0.09%
B	1725.9	364.8	ug/L	3.25	18.24	mg/kg	0.162	0.89%
Ba 233.527	137781.6	848.0	ug/L	4.95	42.40	mg/kg	0.247	0.58%
Be 313.107	464114.5	74.34	ug/L	0.163	3.717	mg/kg	0.0081	0.22%
Ca 315.887	22512240.4	1886000	ug/L	5960.6	94280	mg/kg	298.0	0.32%
Cd 214.440	25036.0	65.77	ug/L	0.370	3.289	mg/kg	0.0185	0.56%
Co 228.616	26062.1	373.6	ug/L	2.30	18.68	mg/kg	0.115	0.62%
Cr 267.716	58023.4	409.8	ug/L	2.74	20.49	mg/kg	0.137	0.67%
Cu 327.393	38480.4	421.9	ug/L	4.64	21.10	mg/kg	0.232	1.10%
Fe 273.955	66113.3	2490	ug/L	19.5	124.5	mg/kg	0.97	0.78%
K 766.490	42242.7	15840	ug/L	12.4	791.8	mg/kg	0.62	0.08%
Mg 285.213	1428300.7	72860	ug/L	184.8	3643	mg/kg	9.2	0.25%
Mn 257.610	20020.3	365.2	ug/L	2.55	18.26	mg/kg	0.127	0.70%
Mo 202.031	16142.0	371.2	ug/L	1.90	18.56	mg/kg	0.095	0.51%
Na 589.592	1309808.3	98940	ug/L	280.9	4947	mg/kg	14.0	0.28%
Ni 231.604	244165.8	3864	ug/L	6.2	193.2	mg/kg	0.31	0.16%
P 213.617	5891963.1	848200	ug/L	832.0	42410	mg/kg	41.6	0.10%
Pb 220.353	5329.9	366.9	ug/L	2.31	18.35	mg/kg	0.115	0.63%
Sb 206.836	2393.4	381.6	ug/L	0.77	19.08	mg/kg	0.039	0.20%
Se 196.026	2038.2	350.8	ug/L	3.89	17.54	mg/kg	0.194	1.11%
Sn 189.927	2881.6	406.4	ug/L	5.69	20.32	mg/kg	0.285	1.40%
Sr 421.552	754453.9	737.1	ug/L	2.85	36.85	mg/kg	0.142	0.39%
Ti 337.279	23387.1	530.1	ug/L	2.67	26.50	mg/kg	0.133	0.50%
Tl 190.801	2326.8	350.7	ug/L	2.25	17.53	mg/kg	0.113	0.64%
V 292.402	90454.3	392.8	ug/L	1.77	19.64	mg/kg	0.089	0.45%
Zn 206.200	125779.7	1456	ug/L	2.8	72.78	mg/kg	0.142	0.19%

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

GT12032M

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69413 SDG: 69413

Analysis Date: 12/05/12 Concentration Units: mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	19		ND		20.000	95.0		

Comments:

12/05/12 15:56 AY72370M01

12/05/12 16:11 AY72370M01-A

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 121205A6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1
Sample ID: CalBlk 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 9:41:54 AM
Data Type: Reprocessed on 12/06/12 10:12:12 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CalBlk 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-285.5	98.06	34.35%	[0.00]	ug/L
Al 308.215	131.7	11.54	8.76%	[0.00]	ug/L
As 188.979	-3.2	5.27	163.63%	[0.00]	ug/L
B	3.8	13.03	342.06%	[0.00]	ug/L
Ba 233.527	155.1	13.37	8.62%	[0.00]	ug/L
Be 313.107	2029.5	101.46	5.00%	[0.00]	ug/L
Ca 315.887	-289.3	32.18	11.13%	[0.00]	ug/L
Cd 214.440	462.2	19.06	4.12%	[0.00]	ug/L
Co 228.616	96.5	20.64	21.38%	[0.00]	ug/L
Cr 267.716	857.1	12.89	1.50%	[0.00]	ug/L
Cu 327.393	-819.1	107.73	13.15%	[0.00]	ug/L
Fe 273.955	294.3	17.50	5.94%	[0.00]	ug/L
K 766.490	-496.4	39.07	7.87%	[0.00]	ug/L
Mg 285.213	-151.3	7.50	4.96%	[0.00]	ug/L
Mn 257.610	-74.2	5.40	7.28%	[0.00]	ug/L
Mo 202.031	177.7	9.21	5.18%	[0.00]	ug/L
Na 589.592	-148.2	134.40	90.68%	[0.00]	ug/L
Ni 231.604	-156.9	10.43	6.65%	[0.00]	ug/L
P 213.617	68.9	7.90	11.46%	[0.00]	ug/L
Pb 220.353	-28.4	3.93	13.83%	[0.00]	ug/L
Sb 206.836	-5.5	2.73	50.04%	[0.00]	ug/L
Se 196.026	-23.0	9.37	40.78%	[0.00]	ug/L
Sn 189.927	-14.3	3.95	27.72%	[0.00]	ug/L
Sr 421.552	873.4	132.64	15.19%	[0.00]	ug/L
Ti 337.279	-464.2	13.18	2.84%	[0.00]	ug/L
Tl 190.801	-13.0	1.44	11.05%	[0.00]	ug/L
V 292.402	-729.2	116.65	16.00%	[0.00]	ug/L
Zn 206.200	-538.5	10.20	1.89%	[0.00]	ug/L

Sequence No.: 2 Autosampler Location: 5
Sample ID: STD 1 121205EA I:PB O:EA Date Collected: 12/05/12 9:46:14 AM
Analyst: Data Type: Reprocessed on 12/06/12 10:12:13 AM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: STD 1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	71.4	28.31	39.67%	[1.00]	ug/L
Al 308.215	172.0	10.58	6.15%	[100.00]	ug/L
As 188.979	20.7	1.32	6.41%	[3.50]	ug/L
B	214.2	4.25	1.99%	[50.00]	ug/L
Ba 233.527	920.2	12.86	1.40%	[5.00]	ug/L
Be 313.107	14127.7	101.16	0.72%	[2.00]	ug/L
Ca 315.887	1266.2	23.19	1.83%	[100.00]	ug/L
Cd 214.440	2245.4	21.61	0.96%	[5.00]	ug/L
Co 228.616	406.5	1.33	0.33%	[5.00]	ug/L
Cr 267.716	851.8	12.64	1.48%	[5.00]	ug/L
Cu 327.393	812.3	179.51	22.10%	[5.00]	ug/L
Fe 273.955	1477.8	8.84	0.60%	[50.00]	ug/L
K 766.490	2086.1	57.22	2.74%	[1000.00]	ug/L
Mg 285.213	1062.2	5.76	0.54%	[50]	ug/L
Mn 257.610	287.6	10.85	3.77%	[5.00]	ug/L
Mo 202.031	251.9	13.59	5.39%	[5.00]	ug/L
Na 589.592	13206.9	42.86	0.32%	[1000.00]	ug/L
Ni 231.604	418.5	22.79	5.45%	[5.00]	ug/L
P 213.617	189.6	9.35	4.93%	[25.00]	ug/L
Pb 220.353	55.7	8.70	15.62%	[3.00]	ug/L
Sb 206.836	35.5	1.88	5.30%	[5.00]	ug/L
Se 196.026	29.3	3.53	12.07%	[5.00]	ug/L
Sn 189.927	43.6	4.72	10.85%	[5.00]	ug/L
Sr 421.552	5427.7	89.16	1.64%	[5.00]	ug/L
Ti 337.279	211.7	3.41	1.61%	[5.00]	ug/L
Tl 190.801	38.2	6.13	16.06%	[5.00]	ug/L
V 292.402	1463.6	152.11	10.39%	[5.00]	ug/L
Zn 206.200	2327.6	19.81	0.85%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 9:50:40 AM
Data Type: Reprocessed on 12/06/12 10:12:16 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	65369.6	460.16	0.70%	[500.0]	ug/L
Al 308.215	33816.5	230.58	0.68%	[20000.00]	ug/L
As 188.979	5632.1	39.14	0.70%	[1000.00]	ug/L
B	4114.9	53.17	1.29%	[1000.00]	ug/L
Ba 233.527	175255.0	233.84	0.13%	[1000.00]	ug/L
Be 313.107	6881288.1	29273.50	0.43%	[1000.00]	ug/L
Ca 315.887	622046.8	2722.65	0.44%	[50000]	ug/L
Cd 214.440	413333.8	609.20	0.15%	[1000.00]	ug/L
Co 228.616	74338.4	202.11	0.27%	[1000.00]	ug/L
Cr 267.716	156313.2	297.32	0.19%	[1000.00]	ug/L
Cu 327.393	124193.6	777.04	0.63%	[1000.00]	ug/L
Fe 273.955	560254.1	492.21	0.09%	[20000]	ug/L
K 766.490	42887.8	751.83	1.75%	[20000]	ug/L
Mg 285.213	978477.0	5196.56	0.53%	[50000]	ug/L
Mn 257.610	54405.8	348.65	0.64%	[1000.00]	ug/L
Mo 202.031	47511.6	286.11	0.60%	[1000.00]	ug/L
Na 589.592	319197.7	1655.17	0.52%	[25000]	ug/L
Ni 231.604	71278.1	135.04	0.19%	[1000.00]	ug/L
P 213.617	39518.8	183.32	0.46%	[5000]	ug/L
Pb 220.353	16866.2	138.20	0.82%	[1000.00]	ug/L
Sb 206.836	6471.8	32.35	0.50%	[1000.00]	ug/L
Se 196.026	5913.0	32.42	0.55%	[1000.00]	ug/L
Sn 189.927	8688.8	82.23	0.95%	[1000.00]	ug/L
Sr 421.552	964623.0	5236.09	0.54%	[1000.00]	ug/L
Ti 337.279	41884.1	352.93	0.84%	[1000.00]	ug/L
Tl 190.801	7192.2	62.92	0.87%	[1000.00]	ug/L
V 292.402	253339.6	267.27	0.11%	[1000.00]	ug/L
Zn 206.200	103791.7	235.98	0.23%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 12/05/12 9:53:21 AM
Data Type: Reprocessed on 12/06/12 10:12:20 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	129681.3	1651.97	1.27%	[1000.00]	ug/L
Al 308.215	66535.9	799.92	1.20%	[40000.00]	ug/L
As 188.979	11127.2	121.30	1.09%	[2000.00]	ug/L
B	8154.8	143.74	1.76%	[2000.00]	ug/L
Ba 233.527	343128.5	1419.76	0.41%	[2000.00]	ug/L
Be 313.107	13273827.5	76922.04	0.58%	[2000.00]	ug/L
Ca 315.887	1235512.8	7506.23	0.61%	[100000.0]	ug/L
Cd 214.440	797802.3	1866.48	0.23%	[2000.00]	ug/L
Co 228.616	145380.2	529.93	0.36%	[2000.00]	ug/L
Cr 267.716	304697.4	1583.52	0.52%	[2000.00]	ug/L
Cu 327.393	253995.0	3895.80	1.53%	[2000.00]	ug/L
Fe 273.955	1092857.1	3699.12	0.34%	[40000]	ug/L
K 766.490	86172.5	771.95	0.90%	[40000]	ug/L
Mg 285.213	1919777.1	9559.72	0.50%	[100000]	ug/L
Mn 257.610	106168.1	1365.95	1.29%	[2000.00]	ug/L
Mo 202.031	90898.6	269.92	0.30%	[2000.00]	ug/L
Na 589.592	636760.6	2427.69	0.38%	[50000]	ug/L
Ni 231.604	138279.3	363.32	0.26%	[2000.00]	ug/L
P 213.617	75803.0	366.75	0.48%	[10000]	ug/L
Pb 220.353	32563.3	286.03	0.88%	[2000.00]	ug/L
Sb 206.836	12885.5	125.47	0.97%	[2000.00]	ug/L
Se 196.026	11531.2	81.83	0.71%	[2000.00]	ug/L
Sn 189.927	17075.2	232.38	1.36%	[2000.00]	ug/L
Sr 421.552	1915206.2	8835.13	0.46%	[2000.00]	ug/L
Ti 337.279	82381.7	831.61	1.01%	[2000.00]	ug/L
Tl 190.801	14026.6	160.52	1.14%	[2000.00]	ug/L
V 292.402	498531.6	1618.75	0.32%	[2000.00]	ug/L
Zn 206.200	200413.4	863.50	0.43%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	129.9	0.00000	0.999995	
Al 308.215	3	Lin Thru 0	0.0	1.669	0.00000	0.999978	
As 188.979	3	Lin Thru 0	0.0	5.577	0.00000	0.999988	
B	3	Lin Thru 0	0.0	4.085	0.00000	0.999993	
Ba 233.527	3	Lin Thru 0	0.0	172.3	0.00000	0.999963	
Be 313.107	3	Lin Thru 0	0.0	6686	0.00000	0.999893	
Ca 315.887	3	Lin Thru 0	0.0	12.37	0.00000	0.999996	
Cd 214.440	3	Lin Thru 0	0.0	401.8	0.00000	0.999897	
Co 228.616	3	Lin Thru 0	0.0	73.02	0.00000	0.999959	
Cr 267.716	3	Lin Thru 0	0.0	153.1	0.00000	0.999946	
Cu 327.393	3	Lin Thru 0	0.0	126.4	0.00000	0.999960	
Fe 273.955	3	Lin Thru 0	0.0	27.46	0.00000	0.999949	
K 766.490	3	Lin Thru 0	0.0	2.152	0.00000	0.999998	
Mg 285.213	3	Lin Thru 0	0.0	19.27	0.00000	0.999970	
Mn 257.610	3	Lin Thru 0	0.0	53.35	0.00000	0.999951	
Mo 202.031	3	Lin Thru 0	0.0	45.86	0.00000	0.999838	
Na 589.592	3	Lin Thru 0	0.0	12.74	0.00000	0.999999	
Ni 231.604	3	Lin Thru 0	0.0	69.57	0.00000	0.999924	
P 213.617	3	Lin Thru 0	0.0	7.645	0.00000	0.999857	
Pb 220.353	3	Lin Thru 0	0.0	16.40	0.00000	0.999898	
Sb 206.836	3	Lin Thru 0	0.0	6.449	0.00000	0.999998	
Se 196.026	3	Lin Thru 0	0.0	5.795	0.00000	0.999948	
Sn 189.927	3	Lin Thru 0	0.0	8.568	0.00000	0.999975	
Sr 421.552	3	Lin Thru 0	0.0	959.0	0.00000	0.999996	
Ti 337.279	3	Lin Thru 0	0.0	41.33	0.00000	0.999977	
Tl 190.801	3	Lin Thru 0	0.0	7.049	0.00000	0.999948	

V 292.402	3	Lin Thru 0	0.0	250.1	0.00000	0.999979
Zn 206.200	3	Lin Thru 0	0.0	100.9	0.00000	0.999898

Sequence No.: 5
Sample ID: ICV 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 12/05/12 9:57:09 AM
Data Type: Reprocessed on 12/06/12 10:12:25 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	66064.1	508.6	ug/L	12.37	508.6	ug/L	12.37	2.43%
QC value within limits for Ag 338.289 Recovery = 101.72%								
Al 308.215	41975.7	25160	ug/L	100.2	25160	ug/L	100.2	0.40%
QC value within limits for Al 308.215 Recovery = 100.65%								
As 188.979	5501.0	986.3	ug/L	9.71	986.3	ug/L	9.71	0.98%
QC value within limits for As 188.979 Recovery = 98.63%								
B	4050.1	1070	ug/L	10.6	1070	ug/L	10.6	0.99%
QC value within limits for B Recovery = 107.03%								
Ba 233.527	171624.2	982.4	ug/L	9.83	982.4	ug/L	9.83	1.00%
QC value within limits for Ba 233.527 Recovery = 98.24%								
Be 313.107	6803937.7	1018	ug/L	11.1	1018	ug/L	11.1	1.09%
QC value within limits for Be 313.107 Recovery = 101.77%								
Ca 315.887	310154.9	25060	ug/L	104.0	25060	ug/L	104.0	0.42%
QC value within limits for Ca 315.887 Recovery = 100.23%								
Cd 214.440	411058.9	1022	ug/L	11.3	1022	ug/L	11.3	1.11%
QC value within limits for Cd 214.440 Recovery = 102.25%								
Co 228.616	74490.1	1019	ug/L	10.3	1019	ug/L	10.3	1.01%
QC value within limits for Co 228.616 Recovery = 101.95%								
Cr 267.716	156889.3	1026	ug/L	12.5	1026	ug/L	12.5	1.22%
QC value within limits for Cr 267.716 Recovery = 102.56%								
Cu 327.393	124079.2	981.4	ug/L	7.21	981.4	ug/L	7.21	0.73%
QC value within limits for Cu 327.393 Recovery = 98.14%								
Fe 273.955	694637.1	25210	ug/L	268.9	25210	ug/L	268.9	1.07%
QC value within limits for Fe 273.955 Recovery = 100.85%								
K 766.490	52544.1	24400	ug/L	158.1	24400	ug/L	158.1	0.65%
QC value within limits for K 766.490 Recovery = 97.61%								
Mg 285.213	490192.7	25460	ug/L	127.4	25460	ug/L	127.4	0.50%
QC value within limits for Mg 285.213 Recovery = 101.85%								
Mn 257.610	55533.6	1041	ug/L	5.1	1041	ug/L	5.1	0.49%
QC value within limits for Mn 257.610 Recovery = 104.13%								
Mo 202.031	47918.6	1047	ug/L	7.6	1047	ug/L	7.6	0.73%
QC value within limits for Mo 202.031 Recovery = 104.75%								
Na 589.592	310660.6	24360	ug/L	121.7	24360	ug/L	121.7	0.50%
QC value within limits for Na 589.592 Recovery = 97.44%								
Ni 231.604	72797.9	1044	ug/L	11.2	1044	ug/L	11.2	1.08%
QC value within limits for Ni 231.604 Recovery = 104.44%								
P 213.617	37934.5	4962	ug/L	36.0	4962	ug/L	36.0	0.73%
QC value within limits for P 213.617 Recovery = 99.24%								
Pb 220.353	17185.4	1048	ug/L	5.3	1048	ug/L	5.3	0.50%
QC value within limits for Pb 220.353 Recovery = 104.80%								
Sb 206.836	6762.5	1049	ug/L	7.5	1049	ug/L	7.5	0.72%
QC value within limits for Sb 206.836 Recovery = 104.87%								
Se 196.026	5894.9	1028	ug/L	12.0	1028	ug/L	12.0	1.17%
QC value within limits for Se 196.026 Recovery = 102.82%								
Sn 189.927	4515.2	527.0	ug/L	3.77	527.0	ug/L	3.77	0.71%
QC value within limits for Sn 189.927 Recovery = 105.40%								
Sr 421.552	939727.4	979.6	ug/L	4.52	979.6	ug/L	4.52	0.46%
QC value within limits for Sr 421.552 Recovery = 97.96%								
Ti 337.279	38869.5	940.0	ug/L	7.92	940.0	ug/L	7.92	0.84%
QC value within limits for Ti 337.279 Recovery = 94.00%								
Tl 190.801	7143.7	1013	ug/L	10.7	1013	ug/L	10.7	1.06%
QC value within limits for Tl 190.801 Recovery = 101.34%								
V 292.402	252113.7	1026	ug/L	10.8	1026	ug/L	10.8	1.05%
QC value within limits for V 292.402 Recovery = 102.57%								
Zn 206.200	105528.2	1055	ug/L	9.7	1055	ug/L	9.7	0.92%
QC value within limits for Zn 206.200 Recovery = 105.51%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 10:00:53 AM
Data Type: Reprocessed on 12/06/12 10:12:26 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-31.2	-0.240	ug/L	0.1304	-0.240	ug/L	0.1304	54.33%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	16.5	9.866	ug/L	5.1303	9.866	ug/L	5.1303	52.00%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	1.5	0.266	ug/L	0.6967	0.266	ug/L	0.6967	261.98%
QC value within limits for As 188.979 Recovery = Not calculated								
B	50.2	12.29	ug/L	1.335	12.29	ug/L	1.335	10.86%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-0.6	-0.004	ug/L	0.0603	-0.004	ug/L	0.0603	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	30.5	0.005	ug/L	0.0226	0.005	ug/L	0.0226	495.04%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	20.2	1.630	ug/L	1.6390	1.630	ug/L	1.6390	100.55%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	42.7	0.107	ug/L	0.0600	0.107	ug/L	0.0600	56.22%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	1.3	0.019	ug/L	0.0989	0.019	ug/L	0.0989	525.80%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-17.0	-0.111	ug/L	0.0676	-0.111	ug/L	0.0676	60.96%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	55.6	0.440	ug/L	0.5493	0.440	ug/L	0.5493	124.98%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	21.7	0.784	ug/L	0.4356	0.784	ug/L	0.4356	55.53%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	138.8	64.47	ug/L	104.828	64.47	ug/L	104.828	162.59%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	35.9	1.861	ug/L	0.4357	1.861	ug/L	0.4357	23.41%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-2.8	-0.052	ug/L	0.1176	-0.052	ug/L	0.1176	225.89%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	25.4	0.554	ug/L	0.0857	0.554	ug/L	0.0857	15.47%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	51.8	4.037	ug/L	8.4698	4.037	ug/L	8.4698	209.80%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-24.9	-0.359	ug/L	0.0976	-0.359	ug/L	0.0976	27.20%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-0.5	-0.061	ug/L	0.9811	-0.061	ug/L	0.9811	>999.9%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	13.3	0.811	ug/L	0.7766	0.811	ug/L	0.7766	95.75%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	10.5	1.633	ug/L	0.8130	1.633	ug/L	0.8130	49.80%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-2.2	-0.374	ug/L	3.5161	-0.374	ug/L	3.5161	939.05%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	22.3	2.597	ug/L	0.3017	2.597	ug/L	0.3017	11.61%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	152.8	0.159	ug/L	0.2448	0.159	ug/L	0.2448	153.54%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	14.0	0.338	ug/L	0.2639	0.338	ug/L	0.2639	78.07%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	5.1	0.727	ug/L	0.4798	0.727	ug/L	0.4798	66.02%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	13.1	0.059	ug/L	0.4099	0.059	ug/L	0.4099	697.59%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-23.5	-0.232	ug/L	0.2315	-0.232	ug/L	0.2315	99.64%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 12/05/12 10:13:35 AM
Data Type: Reprocessed on 12/06/12 10:12:28 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	15.4	0.119	ug/L	0.4831	0.119	ug/L	0.4831	407.31%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	318154.2	190700	ug/L	3080.5	190700	ug/L	3080.5	1.62%
QC value within limits for Al 308.215 Recovery = 95.33%								
As 188.979	3.4	0.617	ug/L	0.3376	0.617	ug/L	0.3376	54.75%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2096.2	50.21	ug/L	9.819	50.21	ug/L	9.819	19.55%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	17554.0	0.115	ug/L	3.3435	0.115	ug/L	3.3435	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-860.8	-0.129	ug/L	0.0149	-0.129	ug/L	0.0149	11.61%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2383265.7	192600	ug/L	3182.5	192600	ug/L	3182.5	1.65%
QC value within limits for Ca 315.887 Recovery = 96.30%								
Cd 214.440	3633.5	-0.101	ug/L	0.1738	-0.101	ug/L	0.1738	171.65%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	296.5	-0.018	ug/L	0.4547	-0.018	ug/L	0.4547	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-60.5	0.160	ug/L	0.2606	0.160	ug/L	0.2606	163.00%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-186.0	-1.471	ug/L	0.4392	-1.471	ug/L	0.4392	29.86%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4891063.1	178100	ug/L	1967.6	178100	ug/L	1967.6	1.10%
QC value within limits for Fe 273.955 Recovery = 89.05%								
K 766.490	159.9	-39.15	ug/L	39.600	-39.15	ug/L	39.600	101.14%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3601480.7	187100	ug/L	2883.4	187100	ug/L	2883.4	1.54%
QC value within limits for Mg 285.213 Recovery = 93.54%								
Mn 257.610	-123.0	-1.321	ug/L	0.2889	-1.321	ug/L	0.2889	21.87%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-664.1	-0.990	ug/L	0.2686	-0.990	ug/L	0.2686	27.13%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	22.9	-42.75	ug/L	0.760	-42.75	ug/L	0.760	1.78%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	12.7	-0.015	ug/L	0.5502	-0.015	ug/L	0.5502	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-24.2	-3.170	ug/L	0.8768	-3.170	ug/L	0.8768	27.66%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	17.7	1.078	ug/L	0.9012	1.078	ug/L	0.9012	83.57%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	1.2	0.190	ug/L	0.7490	0.190	ug/L	0.7490	393.21%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-489.0	0.065	ug/L	3.5825	0.065	ug/L	3.5825	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-3.0	-0.354	ug/L	0.4843	-0.354	ug/L	0.4843	136.92%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2310.6	0.253	ug/L	0.0181	0.253	ug/L	0.0181	7.16%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	85.8	-1.278	ug/L	0.4213	-1.278	ug/L	0.4213	32.96%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-4.4	-0.618	ug/L	1.0503	-0.618	ug/L	1.0503	169.87%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	10699.5	-0.023	ug/L	0.7744	-0.023	ug/L	0.7744	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	774.7	-1.316	ug/L	0.5647	-1.316	ug/L	0.5647	42.90%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 12/05/12 10:18:14 AM
Data Type: Reprocessed on 12/06/12 10:12:29 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	129665.2	998.2	ug/L	10.14	998.2	ug/L	10.14	1.02%
QC value within limits for Ag 338.289 Recovery = 99.82%								
Al 308.215	317865.2	190500	ug/L	1164.2	190500	ug/L	1164.2	0.61%
QC value within limits for Al 308.215 Recovery = 95.24%								
As 188.979	2627.4	471.1	ug/L	0.70	471.1	ug/L	0.70	0.15%
QC value within limits for As 188.979 Recovery = 94.22%								
B	-2103.2	41.97	ug/L	12.197	41.97	ug/L	12.197	29.06%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	96267.0	458.3	ug/L	5.00	458.3	ug/L	5.00	1.09%
QC value within limits for Ba 233.527 Recovery = 91.67%								
Be 313.107	3095321.7	463.0	ug/L	2.90	463.0	ug/L	2.90	0.63%
QC value within limits for Be 313.107 Recovery = 92.59%								
Ca 315.887	2380835.7	192400	ug/L	1310.0	192400	ug/L	1310.0	0.68%
QC value within limits for Ca 315.887 Recovery = 96.20%								
Cd 214.440	367860.7	906.7	ug/L	8.39	906.7	ug/L	8.39	0.93%
QC value within limits for Cd 214.440 Recovery = 90.67%								
Co 228.616	33206.2	451.6	ug/L	5.28	451.6	ug/L	5.28	1.17%
QC value within limits for Co 228.616 Recovery = 90.32%								
Cr 267.716	70615.2	462.2	ug/L	2.95	462.2	ug/L	2.95	0.64%
QC value within limits for Cr 267.716 Recovery = 92.43%								
Cu 327.393	58801.6	465.1	ug/L	6.08	465.1	ug/L	6.08	1.31%
QC value within limits for Cu 327.393 Recovery = 93.01%								
Fe 273.955	4841411.2	176300	ug/L	893.8	176300	ug/L	893.8	0.51%
QC value within limits for Fe 273.955 Recovery = 88.13%								
K 766.490	245.2	0.230	ug/L	67.2082	0.230	ug/L	67.2082	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3604298.1	187200	ug/L	1139.2	187200	ug/L	1139.2	0.61%
QC value within limits for Mg 285.213 Recovery = 93.61%								
Mn 257.610	25165.1	472.7	ug/L	4.75	472.7	ug/L	4.75	1.01%
QC value within limits for Mn 257.610 Recovery = 94.53%								
Mo 202.031	21210.4	476.2	ug/L	1.41	476.2	ug/L	1.41	0.30%
QC value within limits for Mo 202.031 Recovery = 95.24%								
Na 589.592	238.4	-27.47	ug/L	16.403	-27.47	ug/L	16.403	59.71%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	63667.6	914.1	ug/L	8.85	914.1	ug/L	8.85	0.97%
QC value within limits for Ni 231.604 Recovery = 91.41%								
P 213.617	-4.2	-0.555	ug/L	2.0106	-0.555	ug/L	2.0106	362.13%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	15434.3	941.2	ug/L	1.55	941.2	ug/L	1.55	0.16%
QC value within limits for Pb 220.353 Recovery = 94.12%								
Sb 206.836	3086.6	478.6	ug/L	1.56	478.6	ug/L	1.56	0.33%
QC value within limits for Sb 206.836 Recovery = 95.73%								
Se 196.026	2269.0	474.9	ug/L	4.84	474.9	ug/L	4.84	1.02%
QC value within limits for Se 196.026 Recovery = 94.98%								
Sn 189.927	-6.2	-0.718	ug/L	1.2353	-0.718	ug/L	1.2353	171.94%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2107.0	0.053	ug/L	0.1517	0.053	ug/L	0.1517	285.31%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	88.5	-1.163	ug/L	0.5253	-1.163	ug/L	0.5253	45.19%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3237.1	459.2	ug/L	1.59	459.2	ug/L	1.59	0.35%
QC value within limits for Tl 190.801 Recovery = 91.85%								
V 292.402	128337.1	481.9	ug/L	4.10	481.9	ug/L	4.10	0.85%
QC value within limits for V 292.402 Recovery = 96.38%								
Zn 206.200	92651.5	913.8	ug/L	9.56	913.8	ug/L	9.56	1.05%
QC value within limits for Zn 206.200 Recovery = 91.38%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 10:22:52 AM
Data Type: Reprocessed on 12/06/12 10:12:30 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	64611.6	497.4	ug/L	6.13	497.4	ug/L	6.13	1.23%
QC value within limits for Ag 338.289 Recovery = 99.48%								
Al 308.215	34352.1	20590	ug/L	165.6	20590	ug/L	165.6	0.80%
QC value within limits for Al 308.215 Recovery = 102.97%								
As 188.979	5775.3	1035	ug/L	8.9	1035	ug/L	8.9	0.86%
QC value within limits for As 188.979 Recovery = 103.55%								
B	4192.0	1089	ug/L	11.7	1089	ug/L	11.7	1.07%
QC value within limits for B Recovery = 108.89%								
Ba 233.527	177032.9	1016	ug/L	9.8	1016	ug/L	9.8	0.97%
QC value within limits for Ba 233.527 Recovery = 101.64%								
Be 313.107	6967074.4	1042	ug/L	7.3	1042	ug/L	7.3	0.70%
QC value within limits for Be 313.107 Recovery = 104.21%								
Ca 315.887	635336.1	51340	ug/L	251.0	51340	ug/L	251.0	0.49%
QC value within limits for Ca 315.887 Recovery = 102.68%								
Cd 214.440	421274.0	1048	ug/L	10.2	1048	ug/L	10.2	0.98%
QC value within limits for Cd 214.440 Recovery = 104.81%								
Co 228.616	75402.9	1032	ug/L	10.4	1032	ug/L	10.4	1.01%
QC value within limits for Co 228.616 Recovery = 103.18%								
Cr 267.716	157760.8	1031	ug/L	10.7	1031	ug/L	10.7	1.04%
QC value within limits for Cr 267.716 Recovery = 103.10%								
Cu 327.393	124760.9	986.7	ug/L	16.26	986.7	ug/L	16.26	1.65%
QC value within limits for Cu 327.393 Recovery = 98.67%								
Fe 273.955	567043.1	20560	ug/L	202.1	20560	ug/L	202.1	0.98%
QC value within limits for Fe 273.955 Recovery = 102.82%								
K 766.490	43613.2	20250	ug/L	243.1	20250	ug/L	243.1	1.20%
QC value within limits for K 766.490 Recovery = 101.23%								
Mg 285.213	993368.3	51570	ug/L	224.0	51570	ug/L	224.0	0.43%
QC value within limits for Mg 285.213 Recovery = 103.13%								
Mn 257.610	55659.6	1042	ug/L	11.8	1042	ug/L	11.8	1.14%
QC value within limits for Mn 257.610 Recovery = 104.22%								
Mo 202.031	48449.7	1059	ug/L	10.1	1059	ug/L	10.1	0.96%
QC value within limits for Mo 202.031 Recovery = 105.86%								
Na 589.592	321804.6	25230	ug/L	105.5	25230	ug/L	105.5	0.42%
QC value within limits for Na 589.592 Recovery = 100.93%								
Ni 231.604	72491.6	1040	ug/L	11.4	1040	ug/L	11.4	1.10%
QC value within limits for Ni 231.604 Recovery = 103.99%								
P 213.617	40775.1	5334	ug/L	31.0	5334	ug/L	31.0	0.58%
QC value within limits for P 213.617 Recovery = 106.67%								
Pb 220.353	17427.6	1063	ug/L	7.0	1063	ug/L	7.0	0.66%
QC value within limits for Pb 220.353 Recovery = 106.28%								
Sb 206.836	6618.8	1026	ug/L	9.1	1026	ug/L	9.1	0.89%
QC value within limits for Sb 206.836 Recovery = 102.64%								
Se 196.026	6092.8	1059	ug/L	2.8	1059	ug/L	2.8	0.26%
QC value within limits for Se 196.026 Recovery = 105.92%								
Sn 189.927	8939.0	1043	ug/L	7.2	1043	ug/L	7.2	0.69%
QC value within limits for Sn 189.927 Recovery = 104.33%								
Sr 421.552	967145.0	1008	ug/L	6.0	1008	ug/L	6.0	0.60%
QC value within limits for Sr 421.552 Recovery = 100.81%								
Ti 337.279	42402.1	1025	ug/L	10.1	1025	ug/L	10.1	0.99%
QC value within limits for Ti 337.279 Recovery = 102.51%								
Tl 190.801	7407.0	1051	ug/L	14.2	1051	ug/L	14.2	1.35%
QC value within limits for Tl 190.801 Recovery = 105.08%								
V 292.402	254597.0	1037	ug/L	9.4	1037	ug/L	9.4	0.91%
QC value within limits for V 292.402 Recovery = 103.69%								
Zn 206.200	106409.4	1064	ug/L	11.6	1064	ug/L	11.6	1.09%
QC value within limits for Zn 206.200 Recovery = 106.43%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 10:26:35 AM
Data Type: Reprocessed on 12/06/12 10:12:31 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	38.7	0.298	ug/L	1.5262	0.298	ug/L	1.5262	511.98%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	32.9	19.70	ug/L	1.099	19.70	ug/L	1.099	5.58%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	3.7	0.660	ug/L	1.3233	0.660	ug/L	1.3233	200.65%
QC value within limits for As 188.979 Recovery = Not calculated								
B	34.7	8.511	ug/L	1.3629	8.511	ug/L	1.3629	16.01%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	23.9	0.137	ug/L	0.0349	0.137	ug/L	0.0349	25.47%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-182.0	-0.027	ug/L	0.0246	-0.027	ug/L	0.0246	90.27%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	83.6	6.758	ug/L	1.3570	6.758	ug/L	1.3570	20.08%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	41.1	0.103	ug/L	0.0224	0.103	ug/L	0.0224	21.84%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	10.6	0.148	ug/L	0.3560	0.148	ug/L	0.3560	240.88%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-2.4	-0.015	ug/L	0.0728	-0.015	ug/L	0.0728	474.88%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	19.3	0.152	ug/L	1.5648	0.152	ug/L	1.5648	>999.9%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	66.4	2.415	ug/L	0.5099	2.415	ug/L	0.5099	21.12%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-31.3	-14.53	ug/L	63.265	-14.53	ug/L	63.265	435.50%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	64.6	3.355	ug/L	1.0394	3.355	ug/L	1.0394	30.98%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	1.2	0.023	ug/L	0.1426	0.023	ug/L	0.1426	615.99%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	23.6	0.514	ug/L	0.1563	0.514	ug/L	0.1563	30.39%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-11.6	-0.911	ug/L	6.1586	-0.911	ug/L	6.1586	676.33%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-26.2	-0.377	ug/L	0.1057	-0.377	ug/L	0.1057	28.05%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	1.3	0.172	ug/L	0.5765	0.172	ug/L	0.5765	335.71%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	23.6	1.440	ug/L	0.8979	1.440	ug/L	0.8979	62.37%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	8.3	1.292	ug/L	0.6071	1.292	ug/L	0.6071	47.00%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	0.8	0.146	ug/L	2.6049	0.146	ug/L	2.6049	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	15.4	1.802	ug/L	1.1195	1.802	ug/L	1.1195	62.12%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	194.8	0.203	ug/L	0.1564	0.203	ug/L	0.1564	77.01%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-13.4	-0.325	ug/L	0.0572	-0.325	ug/L	0.0572	17.61%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2.2	0.306	ug/L	0.5000	0.306	ug/L	0.5000	163.37%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	4.5	0.025	ug/L	0.4778	0.025	ug/L	0.4778	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-65.4	-0.648	ug/L	0.1116	-0.648	ug/L	0.1116	17.22%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 57
Sample ID: CCV1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 2:03:31 PM
Data Type: Reprocessed on 12/06/12 10:13:18 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	63646.9	490.0	ug/L	3.70	490.0	ug/L	3.70	0.75%
QC value within limits for Ag 338.289 Recovery = 98.00%								
Al 308.215	34860.9	20900	ug/L	270.1	20900	ug/L	270.1	1.29%
QC value within limits for Al 308.215 Recovery = 104.49%								
As 188.979	5626.9	1009	ug/L	5.0	1009	ug/L	5.0	0.49%
QC value within limits for As 188.979 Recovery = 100.89%								
B	4154.7	1080	ug/L	16.5	1080	ug/L	16.5	1.53%
QC value within limits for B Recovery = 107.96%								
Ba 233.527	177035.8	1016	ug/L	6.6	1016	ug/L	6.6	0.65%
QC value within limits for Ba 233.527 Recovery = 101.64%								
Be 313.107	6885335.8	1030	ug/L	8.3	1030	ug/L	8.3	0.80%
QC value within limits for Be 313.107 Recovery = 102.98%								
Ca 315.887	654581.3	52900	ug/L	618.3	52900	ug/L	618.3	1.17%
QC value within limits for Ca 315.887 Recovery = 105.79%								
Cd 214.440	417884.1	1040	ug/L	6.8	1040	ug/L	6.8	0.65%
QC value within limits for Cd 214.440 Recovery = 103.97%								
Co 228.616	75298.7	1030	ug/L	6.4	1030	ug/L	6.4	0.62%
QC value within limits for Co 228.616 Recovery = 103.03%								
Cr 267.716	157332.4	1028	ug/L	5.8	1028	ug/L	5.8	0.57%
QC value within limits for Cr 267.716 Recovery = 102.82%								
Cu 327.393	123204.9	974.4	ug/L	10.73	974.4	ug/L	10.73	1.10%
QC value within limits for Cu 327.393 Recovery = 97.44%								
Fe 273.955	566468.5	20540	ug/L	130.3	20540	ug/L	130.3	0.63%
QC value within limits for Fe 273.955 Recovery = 102.72%								
K 766.490	44322.7	20570	ug/L	304.8	20570	ug/L	304.8	1.48%
QC value within limits for K 766.490 Recovery = 102.87%								
Mg 285.213	1018504.8	52870	ug/L	471.7	52870	ug/L	471.7	0.89%
QC value within limits for Mg 285.213 Recovery = 105.74%								
Mn 257.610	56248.8	1053	ug/L	17.7	1053	ug/L	17.7	1.68%
QC value within limits for Mn 257.610 Recovery = 105.32%								
Mo 202.031	47668.4	1042	ug/L	6.5	1042	ug/L	6.5	0.63%
QC value within limits for Mo 202.031 Recovery = 104.15%								
Na 589.592	324715.9	25460	ug/L	247.0	25460	ug/L	247.0	0.97%
QC value within limits for Na 589.592 Recovery = 101.85%								
Ni 231.604	71878.7	1031	ug/L	6.7	1031	ug/L	6.7	0.65%
QC value within limits for Ni 231.604 Recovery = 103.11%								
P 213.617	39590.0	5179	ug/L	40.2	5179	ug/L	40.2	0.78%
QC value within limits for P 213.617 Recovery = 103.57%								
Pb 220.353	17010.2	1037	ug/L	12.6	1037	ug/L	12.6	1.21%
QC value within limits for Pb 220.353 Recovery = 103.73%								
Sb 206.836	6539.4	1014	ug/L	15.1	1014	ug/L	15.1	1.49%
QC value within limits for Sb 206.836 Recovery = 101.41%								
Se 196.026	5932.3	1031	ug/L	9.2	1031	ug/L	9.2	0.89%
QC value within limits for Se 196.026 Recovery = 103.14%								
Sn 189.927	8962.3	1046	ug/L	16.0	1046	ug/L	16.0	1.52%
QC value within limits for Sn 189.927 Recovery = 104.60%								
Sr 421.552	990521.5	1032	ug/L	9.9	1032	ug/L	9.9	0.96%
QC value within limits for Sr 421.552 Recovery = 103.25%								
Ti 337.279	43369.2	1049	ug/L	15.6	1049	ug/L	15.6	1.49%
QC value within limits for Ti 337.279 Recovery = 104.85%								
Tl 190.801	7173.6	1018	ug/L	9.0	1018	ug/L	9.0	0.88%
QC value within limits for Tl 190.801 Recovery = 101.77%								
V 292.402	255198.4	1039	ug/L	6.4	1039	ug/L	6.4	0.62%
QC value within limits for V 292.402 Recovery = 103.90%								
Zn 206.200	105436.0	1055	ug/L	7.7	1055	ug/L	7.7	0.73%
QC value within limits for Zn 206.200 Recovery = 105.46%								

All analyte(s) passed QC.

Sequence No.: 58
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 2:07:14 PM
Data Type: Reprocessed on 12/06/12 10:13:19 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	39.4	0.304	ug/L	0.3595	0.304	ug/L	0.3595	118.37%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	13.4	8.026	ug/L	0.5891	8.026	ug/L	0.5891	7.34%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.2	1.288	ug/L	0.1786	1.288	ug/L	0.1786	13.86%
QC value within limits for As 188.979 Recovery = Not calculated								
B	25.6	6.269	ug/L	4.4722	6.269	ug/L	4.4722	71.33%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	8.5	0.048	ug/L	0.0932	0.048	ug/L	0.0932	195.94%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-396.7	-0.059	ug/L	0.0163	-0.059	ug/L	0.0163	27.55%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	64.0	5.168	ug/L	1.4265	5.168	ug/L	1.4265	27.60%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	4.5	0.012	ug/L	0.0260	0.012	ug/L	0.0260	222.63%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	15.2	0.211	ug/L	0.1224	0.211	ug/L	0.1224	58.03%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-20.2	-0.132	ug/L	0.1634	-0.132	ug/L	0.1634	123.79%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	163.9	1.296	ug/L	1.4512	1.296	ug/L	1.4512	111.95%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	50.3	1.838	ug/L	0.9338	1.838	ug/L	0.9338	50.81%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	56.8	26.36	ug/L	57.722	26.36	ug/L	57.722	218.95%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	36.9	1.914	ug/L	0.2550	1.914	ug/L	0.2550	13.32%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-1.1	-0.020	ug/L	0.1791	-0.020	ug/L	0.1791	893.93%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	33.6	0.733	ug/L	0.2712	0.733	ug/L	0.2712	37.01%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-145.3	-11.42	ug/L	9.986	-11.42	ug/L	9.986	87.46%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-27.2	-0.392	ug/L	0.1401	-0.392	ug/L	0.1401	35.71%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-8.2	-1.071	ug/L	1.6421	-1.071	ug/L	1.6421	153.29%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	12.4	0.754	ug/L	0.9358	0.754	ug/L	0.9358	124.05%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	4.3	0.660	ug/L	0.6797	0.660	ug/L	0.6797	102.98%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-0.1	-0.011	ug/L	0.9415	-0.011	ug/L	0.9415	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	5.5	0.641	ug/L	0.7443	0.641	ug/L	0.7443	116.17%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	380.2	0.396	ug/L	0.0785	0.396	ug/L	0.0785	19.79%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-11.3	-0.274	ug/L	0.4417	-0.274	ug/L	0.4417	160.94%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.9	1.256	ug/L	0.5162	1.256	ug/L	0.5162	41.09%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-22.9	-0.083	ug/L	0.8423	-0.083	ug/L	0.8423	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-109.2	-1.083	ug/L	0.0881	-1.083	ug/L	0.0881	8.14%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 68 Autosampler Location: 8
Sample ID: CCV2 121205EA I:PB O:EA Date Collected: 12/05/12 3:23:33 PM
Analyst: Data Type: Reprocessed on 12/06/12 10:13:29 AM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCV2 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	49907.2	384.2	ug/L	3.08	384.2	ug/L	3.08	0.80%
QC value within limits for Ag 338.289 Recovery = 102.46%								
Al 308.215	27614.1	16550	ug/L	109.9	16550	ug/L	109.9	0.66%
QC value within limits for Al 308.215 Recovery = 110.36%								
As 188.979	4403.6	789.6	ug/L	2.89	789.6	ug/L	2.89	0.37%
QC value within limits for As 188.979 Recovery = 105.27%								
B	3241.6	841.4	ug/L	8.14	841.4	ug/L	8.14	0.97%
QC value greater than the upper limit for B Recovery = 112.19%								
Ba 233.527	136166.3	781.8	ug/L	4.40	781.8	ug/L	4.40	0.56%
QC value within limits for Ba 233.527 Recovery = 104.24%								
Be 313.107	5355865.3	801.1	ug/L	1.80	801.1	ug/L	1.80	0.22%
QC value within limits for Be 313.107 Recovery = 106.81%								
Ca 315.887	525429.4	42460	ug/L	482.2	42460	ug/L	482.2	1.14%
QC value greater than the upper limit for Ca 315.887 Recovery = 113.23%								
Cd 214.440	323283.8	804.3	ug/L	5.75	804.3	ug/L	5.75	0.72%
QC value within limits for Cd 214.440 Recovery = 107.24%								
Co 228.616	58251.2	796.9	ug/L	6.49	796.9	ug/L	6.49	0.81%
QC value within limits for Co 228.616 Recovery = 106.25%								
Cr 267.716	120502.7	787.4	ug/L	5.05	787.4	ug/L	5.05	0.64%
QC value within limits for Cr 267.716 Recovery = 104.99%								
Cu 327.393	96635.1	764.3	ug/L	5.26	764.3	ug/L	5.26	0.69%
QC value within limits for Cu 327.393 Recovery = 101.91%								
Fe 273.955	435527.5	15800	ug/L	101.7	15800	ug/L	101.7	0.64%
QC value within limits for Fe 273.955 Recovery = 105.30%								
K 766.490	34725.1	16120	ug/L	223.3	16120	ug/L	223.3	1.39%
QC value within limits for K 766.490 Recovery = 107.46%								
Mg 285.213	810383.6	42070	ug/L	399.5	42070	ug/L	399.5	0.95%
QC value greater than the upper limit for Mg 285.213 Recovery = 112.18%								
Mn 257.610	44266.7	828.8	ug/L	3.46	828.8	ug/L	3.46	0.42%
QC value greater than the upper limit for Mn 257.610 Recovery = 110.50%								
Mo 202.031	35951.2	785.5	ug/L	4.03	785.5	ug/L	4.03	0.51%
QC value within limits for Mo 202.031 Recovery = 104.74%								
Na 589.592	256184.3	20090	ug/L	210.1	20090	ug/L	210.1	1.05%
QC value within limits for Na 589.592 Recovery = 107.14%								
Ni 231.604	55559.4	797.0	ug/L	4.74	797.0	ug/L	4.74	0.59%
QC value within limits for Ni 231.604 Recovery = 106.27%								
P 213.617	30641.4	4008	ug/L	48.1	4008	ug/L	48.1	1.20%
QC value within limits for P 213.617 Recovery = 106.88%								
Pb 220.353	13198.5	804.9	ug/L	1.58	804.9	ug/L	1.58	0.20%
QC value within limits for Pb 220.353 Recovery = 107.31%								
Sb 206.836	5197.2	805.9	ug/L	1.07	805.9	ug/L	1.07	0.13%
QC value within limits for Sb 206.836 Recovery = 107.46%								
Se 196.026	4628.2	804.4	ug/L	1.79	804.4	ug/L	1.79	0.22%
QC value within limits for Se 196.026 Recovery = 107.26%								
Sn 189.927	6734.6	786.0	ug/L	4.24	786.0	ug/L	4.24	0.54%
QC value within limits for Sn 189.927 Recovery = 104.80%								
Sr 421.552	791082.4	824.6	ug/L	6.75	824.6	ug/L	6.75	0.82%
QC value within limits for Sr 421.552 Recovery = 109.95%								
Ti 337.279	35144.1	849.7	ug/L	6.17	849.7	ug/L	6.17	0.73%
QC value greater than the upper limit for Ti 337.279 Recovery = 113.29%								
Tl 190.801	5664.6	803.6	ug/L	0.91	803.6	ug/L	0.91	0.11%
QC value within limits for Tl 190.801 Recovery = 107.15%								
V 292.402	195315.9	795.0	ug/L	4.80	795.0	ug/L	4.80	0.60%
QC value within limits for V 292.402 Recovery = 106.00%								
Zn 206.200	81083.5	811.0	ug/L	5.13	811.0	ug/L	5.13	0.63%
QC value within limits for Zn 206.200 Recovery = 108.14%								

QC Failed. Continue with analysis.

Sequence No.: 69 Autosampler Location: 2
Sample ID: CCB 121205EA I:PB O:EA Date Collected: 12/05/12 3:29:31 PM
Analyst: Data Type: Reprocessed on 12/06/12 10:13:30 AM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	62.2	0.479	ug/L	1.0880	0.479	ug/L	1.0880	227.23%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	27.9	16.70	ug/L	10.779	16.70	ug/L	10.779	64.56%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.1	0.742	ug/L	0.7184	0.742	ug/L	0.7184	96.81%
QC value within limits for As 188.979 Recovery = Not calculated								
B	49.9	12.20	ug/L	2.788	12.20	ug/L	2.788	22.85%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-5.8	-0.032	ug/L	0.0387	-0.032	ug/L	0.0387	119.24%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	63.0	0.009	ug/L	0.0140	0.009	ug/L	0.0140	148.20%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	1133.4	91.61	ug/L	10.182	91.61	ug/L	10.182	11.12%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	27.1	0.068	ug/L	0.0045	0.068	ug/L	0.0045	6.61%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-22.8	-0.310	ug/L	0.0801	-0.310	ug/L	0.0801	25.79%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-64.6	-0.422	ug/L	0.1703	-0.422	ug/L	0.1703	40.37%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	173.2	1.370	ug/L	0.6923	1.370	ug/L	0.6923	50.53%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	-62.3	-2.296	ug/L	0.5395	-2.296	ug/L	0.5395	23.50%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	122.4	56.85	ug/L	69.716	56.85	ug/L	69.716	122.62%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	76.2	3.950	ug/L	0.4022	3.950	ug/L	0.4022	10.18%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	2.0	0.037	ug/L	0.0844	0.037	ug/L	0.0844	228.85%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	25.2	0.549	ug/L	0.0433	0.549	ug/L	0.0433	7.89%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	453.5	35.56	ug/L	7.229	35.56	ug/L	7.229	20.33%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	7.3	0.105	ug/L	0.1912	0.105	ug/L	0.1912	182.73%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	241.9	31.65	ug/L	2.975	31.65	ug/L	2.975	9.40%
QC value greater than the upper limit for P 213.617 Recovery = Not calculated								
Pb 220.353	18.2	1.108	ug/L	0.3606	1.108	ug/L	0.3606	32.55%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	9.5	1.467	ug/L	0.3285	1.467	ug/L	0.3285	22.40%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	2.3	0.398	ug/L	0.9907	0.398	ug/L	0.9907	249.03%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	2.8	0.327	ug/L	0.7159	0.327	ug/L	0.7159	219.03%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	245.9	0.256	ug/L	0.1004	0.256	ug/L	0.1004	39.22%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-4.8	-0.116	ug/L	0.2166	-0.116	ug/L	0.2166	186.87%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	7.0	0.997	ug/L	0.1680	0.997	ug/L	0.1680	16.85%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	79.8	0.323	ug/L	0.0453	0.323	ug/L	0.0453	14.00%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-111.5	-1.107	ug/L	0.0982	-1.107	ug/L	0.0982	8.87%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 79
Sample ID: CCV1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 4:25:13 PM
Data Type: Reprocessed on 12/06/12 10:13:43 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65271.4	502.5	ug/L	2.68	502.5	ug/L	2.68	0.53%
QC value within limits for Ag 338.289 Recovery = 100.50%								
Al 308.215	35971.7	21560	ug/L	92.0	21560	ug/L	92.0	0.43%
QC value within limits for Al 308.215 Recovery = 107.82%								
As 188.979	5586.8	1002	ug/L	12.0	1002	ug/L	12.0	1.20%
QC value within limits for As 188.979 Recovery = 100.17%								
B	4172.9	1083	ug/L	17.4	1083	ug/L	17.4	1.61%
QC value within limits for B Recovery = 108.30%								
Ba 233.527	175883.9	1010	ug/L	1.9	1010	ug/L	1.9	0.19%
QC value within limits for Ba 233.527 Recovery = 100.99%								
Be 313.107	6819538.9	1020	ug/L	8.5	1020	ug/L	8.5	0.83%
QC value within limits for Be 313.107 Recovery = 102.00%								
Ca 315.887	674439.9	54500	ug/L	411.8	54500	ug/L	411.8	0.76%
QC value within limits for Ca 315.887 Recovery = 109.00%								
Cd 214.440	408126.9	1015	ug/L	1.1	1015	ug/L	1.1	0.11%
QC value within limits for Cd 214.440 Recovery = 101.54%								
Co 228.616	74550.9	1020	ug/L	2.0	1020	ug/L	2.0	0.19%
QC value within limits for Co 228.616 Recovery = 101.99%								
Cr 267.716	155428.5	1016	ug/L	0.7	1016	ug/L	0.7	0.07%
QC value within limits for Cr 267.716 Recovery = 101.57%								
Cu 327.393	126374.1	999.5	ug/L	1.93	999.5	ug/L	1.93	0.19%
QC value within limits for Cu 327.393 Recovery = 99.95%								
Fe 273.955	559109.1	20280	ug/L	24.4	20280	ug/L	24.4	0.12%
QC value within limits for Fe 273.955 Recovery = 101.38%								
K 766.490	46128.9	21410	ug/L	57.2	21410	ug/L	57.2	0.27%
QC value within limits for K 766.490 Recovery = 107.07%								
Mg 285.213	1047315.4	54370	ug/L	369.5	54370	ug/L	369.5	0.68%
QC value within limits for Mg 285.213 Recovery = 108.73%								
Mn 257.610	57087.4	1069	ug/L	2.2	1069	ug/L	2.2	0.20%
QC value within limits for Mn 257.610 Recovery = 106.88%								
Mo 202.031	47817.5	1045	ug/L	14.7	1045	ug/L	14.7	1.40%
QC value within limits for Mo 202.031 Recovery = 104.47%								
Na 589.592	331182.2	25970	ug/L	216.1	25970	ug/L	216.1	0.83%
QC value within limits for Na 589.592 Recovery = 103.87%								
Ni 231.604	72262.3	1037	ug/L	16.0	1037	ug/L	16.0	1.55%
QC value within limits for Ni 231.604 Recovery = 103.66%								
P 213.617	39668.2	5189	ug/L	69.2	5189	ug/L	69.2	1.33%
QC value within limits for P 213.617 Recovery = 103.78%								
Pb 220.353	16855.4	1028	ug/L	15.1	1028	ug/L	15.1	1.47%
QC value within limits for Pb 220.353 Recovery = 102.79%								
Sb 206.836	6647.3	1031	ug/L	16.6	1031	ug/L	16.6	1.61%
QC value within limits for Sb 206.836 Recovery = 103.08%								
Se 196.026	5839.3	1015	ug/L	12.7	1015	ug/L	12.7	1.25%
QC value within limits for Se 196.026 Recovery = 101.51%								
Sn 189.927	8662.1	1011	ug/L	20.9	1011	ug/L	20.9	2.07%
QC value within limits for Sn 189.927 Recovery = 101.10%								
Sr 421.552	1035102.1	1079	ug/L	8.9	1079	ug/L	8.9	0.83%
QC value within limits for Sr 421.552 Recovery = 107.90%								
Ti 337.279	46309.1	1120	ug/L	2.7	1120	ug/L	2.7	0.24%
QC value greater than the upper limit for Ti 337.279 Recovery = 111.96%								
Tl 190.801	7219.7	1024	ug/L	15.0	1024	ug/L	15.0	1.47%
QC value within limits for Tl 190.801 Recovery = 102.42%								
V 292.402	254014.1	1034	ug/L	1.6	1034	ug/L	1.6	0.15%
QC value within limits for V 292.402 Recovery = 103.42%								
Zn 206.200	102081.1	1021	ug/L	2.4	1021	ug/L	2.4	0.24%
QC value within limits for Zn 206.200 Recovery = 102.13%								

QC Failed. Continue with analysis.

Sequence No.: 80
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 4:37:04 PM
Data Type: Reprocessed on 12/06/12 10:13:44 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-144.7	-1.114	ug/L	0.8602	-1.114	ug/L	0.8602	77.19%
QC value less than the lower limit for Ag 338.289 Recovery = Not calculated								
Al 308.215	14.6	8.780	ug/L	7.6502	8.780	ug/L	7.6502	87.13%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	3.2	0.572	ug/L	0.7633	0.572	ug/L	0.7633	133.44%
QC value within limits for As 188.979 Recovery = Not calculated								
B	32.0	7.826	ug/L	2.2900	7.826	ug/L	2.2900	29.26%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-6.2	-0.034	ug/L	0.0379	-0.034	ug/L	0.0379	109.95%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-119.8	-0.018	ug/L	0.0287	-0.018	ug/L	0.0287	159.91%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	472.6	38.19	ug/L	10.601	38.19	ug/L	10.601	27.76%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	17.7	0.044	ug/L	0.0508	0.044	ug/L	0.0508	114.88%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-5.6	-0.077	ug/L	0.1084	-0.077	ug/L	0.1084	140.05%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-81.2	-0.530	ug/L	0.0502	-0.530	ug/L	0.0502	9.47%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	213.4	1.688	ug/L	0.9496	1.688	ug/L	0.9496	56.25%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	-83.5	-3.057	ug/L	0.8877	-3.057	ug/L	0.8877	29.04%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	309.1	143.6	ug/L	62.46	143.6	ug/L	62.46	43.49%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	47.3	2.446	ug/L	0.2446	2.446	ug/L	0.2446	10.00%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	13.0	0.243	ug/L	0.1483	0.243	ug/L	0.1483	60.97%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	4.5	0.097	ug/L	0.3046	0.097	ug/L	0.3046	314.98%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	412.2	32.29	ug/L	11.846	32.29	ug/L	11.846	36.69%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-19.7	-0.283	ug/L	0.1420	-0.283	ug/L	0.1420	50.13%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	138.2	18.08	ug/L	3.681	18.08	ug/L	3.681	20.36%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-2.6	-0.161	ug/L	0.3351	-0.161	ug/L	0.3351	208.16%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	12.2	1.892	ug/L	0.5686	1.892	ug/L	0.5686	30.06%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	6.9	1.190	ug/L	2.1169	1.190	ug/L	2.1169	177.89%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	0.7	0.080	ug/L	1.0544	0.080	ug/L	1.0544	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	251.0	0.262	ug/L	0.1311	0.262	ug/L	0.1311	50.06%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	10.0	0.240	ug/L	0.2631	0.240	ug/L	0.2631	109.54%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.0	1.131	ug/L	0.5731	1.131	ug/L	0.5731	50.65%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	43.7	0.172	ug/L	0.6800	0.172	ug/L	0.6800	395.90%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-127.3	-1.264	ug/L	0.0712	-1.264	ug/L	0.0712	5.64%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 121211A6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1 Autosampler Location: 1
Sample ID: CalBlk 121211EA I:PB O:EA Date Collected: 12/11/12 10:06:13 AM
Analyst: Data Type: Reprocessed on 12/12/12 9:39:28 AM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CalBlk 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-195.6	148.70	76.00%	[0.00]	ug/L
Al 308.215	131.1	3.98	3.04%	[0.00]	ug/L
As 188.979	-7.2	3.21	44.45%	[0.00]	ug/L
B	6.1	6.78	111.31%	[0.00]	ug/L
Ba 233.527	114.0	9.23	8.09%	[0.00]	ug/L
Be 313.107	2378.0	39.73	1.67%	[0.00]	ug/L
Ca 315.887	-449.2	30.67	6.83%	[0.00]	ug/L
Cd 214.440	424.9	26.38	6.21%	[0.00]	ug/L
Co 228.616	55.4	6.93	12.50%	[0.00]	ug/L
Cr 267.716	670.3	8.91	1.33%	[0.00]	ug/L
Cu 327.393	-34.3	102.94	299.86%	[0.00]	ug/L
Fe 273.955	182.0	23.89	13.13%	[0.00]	ug/L
K 766.490	-346.2	83.64	24.16%	[0.00]	ug/L
Mg 285.213	-115.3	3.93	3.41%	[0.00]	ug/L
Mn 257.610	-47.3	11.19	23.67%	[0.00]	ug/L
Mo 202.031	176.7	14.07	7.96%	[0.00]	ug/L
Na 589.592	-70.2	126.70	180.55%	[0.00]	ug/L
Ni 231.604	-190.4	14.42	7.57%	[0.00]	ug/L
P 213.617	49.5	7.18	14.49%	[0.00]	ug/L
Pb 220.353	-32.4	4.86	15.01%	[0.00]	ug/L
Sb 206.836	0.3	2.59	803.88%	[0.00]	ug/L
Se 196.026	-20.1	5.51	27.45%	[0.00]	ug/L
Sn 189.927	-15.7	1.21	7.72%	[0.00]	ug/L
Sr 421.552	907.2	180.17	19.86%	[0.00]	ug/L
Ti 337.279	-400.2	10.55	2.64%	[0.00]	ug/L
Tl 190.801	-10.4	1.78	17.08%	[0.00]	ug/L
V 292.402	-718.9	116.90	16.26%	[0.00]	ug/L
Zn 206.200	-366.2	8.19	2.24%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 12/11/12 10:10:33 AM
Data Type: Reprocessed on 12/12/12 9:39:29 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	184.1	76.97	41.80%	[1.00]	ug/L
Al 308.215	160.0	18.08	11.30%	[100.00]	ug/L
As 188.979	21.9	3.04	13.86%	[3.50]	ug/L
B	215.0	8.78	4.09%	[50.00]	ug/L
Ba 233.527	847.4	5.50	0.65%	[5.00]	ug/L
Be 313.107	12740.0	91.05	0.71%	[2.00]	ug/L
Ca 315.887	1227.1	28.27	2.30%	[100.00]	ug/L
Cd 214.440	1915.9	33.10	1.73%	[5.00]	ug/L
Co 228.616	372.2	6.11	1.64%	[5.00]	ug/L
Cr 267.716	731.6	9.08	1.24%	[5.00]	ug/L
Cu 327.393	449.8	68.81	15.30%	[5.00]	ug/L
Fe 273.955	1372.3	16.53	1.20%	[50.00]	ug/L
K 766.490	2166.2	46.25	2.14%	[1000.00]	ug/L
Mg 285.213	1012.4	11.21	1.11%	[50]	ug/L
Mn 257.610	257.0	9.33	3.63%	[5.00]	ug/L
Mo 202.031	208.2	7.90	3.79%	[5.00]	ug/L
Na 589.592	13195.3	223.20	1.69%	[1000.00]	ug/L
Ni 231.604	367.1	3.48	0.95%	[5.00]	ug/L
P 213.617	172.5	7.64	4.43%	[25.00]	ug/L
Pb 220.353	40.6	2.73	6.72%	[3.00]	ug/L
Sb 206.836	31.9	3.46	10.83%	[5.00]	ug/L
Se 196.026	31.4	17.07	54.41%	[5.00]	ug/L
Sn 189.927	35.5	1.57	4.44%	[5.00]	ug/L
Sr 421.552	5103.9	87.91	1.72%	[5.00]	ug/L
Ti 337.279	215.4	7.79	3.62%	[5.00]	ug/L
Tl 190.801	32.0	2.37	7.40%	[5.00]	ug/L
V 292.402	1195.9	23.62	1.98%	[5.00]	ug/L
Zn 206.200	1942.0	25.53	1.31%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/11/12 10:14:57 AM
Data Type: Reprocessed on 12/12/12 9:39:30 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	64193.8	789.04	1.23%	[500.0]	ug/L
Al 308.215	33974.7	247.16	0.73%	[20000.00]	ug/L
As 188.979	5281.5	9.82	0.19%	[1000.00]	ug/L
B	4308.2	50.11	1.16%	[1000.00]	ug/L
Ba 233.527	164940.6	1003.64	0.61%	[1000.00]	ug/L
Be 313.107	6475843.8	143345.64	2.21%	[1000.00]	ug/L
Ca 315.887	607307.4	6092.67	1.00%	[50000]	ug/L
Cd 214.440	366460.7	2616.80	0.71%	[1000.00]	ug/L
Co 228.616	69896.4	315.72	0.45%	[1000.00]	ug/L
Cr 267.716	143176.7	909.26	0.64%	[1000.00]	ug/L
Cu 327.393	91332.9	1091.85	1.20%	[1000.00]	ug/L
Fe 273.955	526911.3	3530.61	0.67%	[20000]	ug/L
K 766.490	49408.8	407.47	0.82%	[20000]	ug/L
Mg 285.213	1004894.9	9890.44	0.98%	[50000]	ug/L
Mn 257.610	54488.8	386.55	0.71%	[1000.00]	ug/L
Mo 202.031	43229.5	282.64	0.65%	[1000.00]	ug/L
Na 589.592	333662.2	3614.57	1.08%	[25000]	ug/L
Ni 231.604	64948.9	455.86	0.70%	[1000.00]	ug/L
P 213.617	35185.4	260.18	0.74%	[5000]	ug/L
Pb 220.353	14817.1	24.79	0.17%	[1000.00]	ug/L
Sb 206.836	6313.5	21.87	0.35%	[1000.00]	ug/L
Se 196.026	5464.3	21.77	0.40%	[1000.00]	ug/L
Sn 189.927	7197.5	31.00	0.43%	[1000.00]	ug/L
Sr 421.552	1016909.2	11988.52	1.18%	[1000.00]	ug/L
Ti 337.279	44360.4	342.66	0.77%	[1000.00]	ug/L
Tl 190.801	6744.4	13.73	0.20%	[1000.00]	ug/L
V 292.402	237496.2	1370.53	0.58%	[1000.00]	ug/L
Zn 206.200	89971.0	626.65	0.70%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 12/11/12 10:18:33 AM
Data Type: Reprocessed on 12/12/12 9:39:31 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	127228.4	1307.85	1.03%	[1000.00]	ug/L
Al 308.215	66621.8	463.45	0.70%	[40000.00]	ug/L
As 188.979	10441.5	79.84	0.76%	[2000.00]	ug/L
B	8510.7	62.63	0.74%	[2000.00]	ug/L
Ba 233.527	322087.9	2528.24	0.78%	[2000.00]	ug/L
Be 313.107	12368905.8	15428.81	0.12%	[2000.00]	ug/L
Ca 315.887	1188745.9	13543.19	1.14%	[100000.0]	ug/L
Cd 214.440	702601.8	5831.12	0.83%	[2000.00]	ug/L
Co 228.616	136098.1	1167.73	0.86%	[2000.00]	ug/L
Cr 267.716	278338.1	1994.43	0.72%	[2000.00]	ug/L
Cu 327.393	182334.2	1399.06	0.77%	[2000.00]	ug/L
Fe 273.955	1023788.5	7875.11	0.77%	[40000]	ug/L
K 766.490	102950.3	718.87	0.70%	[40000]	ug/L
Mg 285.213	1947093.1	16824.23	0.86%	[100000]	ug/L
Mn 257.610	105878.5	833.75	0.79%	[2000.00]	ug/L
Mo 202.031	84506.7	768.51	0.91%	[2000.00]	ug/L
Na 589.592	658783.7	6715.38	1.02%	[50000]	ug/L
Ni 231.604	125437.3	1276.70	1.02%	[2000.00]	ug/L
P 213.617	69240.1	573.67	0.83%	[10000]	ug/L
Pb 220.353	28906.9	168.51	0.58%	[2000.00]	ug/L
Sb 206.836	12521.9	72.40	0.58%	[2000.00]	ug/L
Se 196.026	10694.7	47.18	0.44%	[2000.00]	ug/L
Sn 189.927	14128.9	186.80	1.32%	[2000.00]	ug/L
Sr 421.552	2006476.9	20518.22	1.02%	[2000.00]	ug/L
Ti 337.279	87134.3	712.01	0.82%	[2000.00]	ug/L
Tl 190.801	13214.8	82.63	0.63%	[2000.00]	ug/L
V 292.402	466907.2	4502.63	0.96%	[2000.00]	ug/L
Zn 206.200	172148.0	1676.97	0.97%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	127.5	0.00000	0.999993	
Al 308.215	3	Lin Thru 0	0.0	1.672	0.00000	0.999968	
As 188.979	3	Lin Thru 0	0.0	5.233	0.00000	0.999989	
B	3	Lin Thru 0	0.0	4.266	0.00000	0.999988	
Ba 233.527	3	Lin Thru 0	0.0	161.8	0.00000	0.999954	
Be 313.107	3	Lin Thru 0	0.0	6243	0.00000	0.999826	
Ca 315.887	3	Lin Thru 0	0.0	11.94	0.00000	0.999962	
Cd 214.440	3	Lin Thru 0	0.0	354.3	0.00000	0.999854	
Co 228.616	3	Lin Thru 0	0.0	68.42	0.00000	0.999942	
Cr 267.716	3	Lin Thru 0	0.0	140.0	0.00000	0.999934	
Cu 327.393	3	Lin Thru 0	0.0	91.20	0.00000	1.000000	
Fe 273.955	3	Lin Thru 0	0.0	25.74	0.00000	0.999932	
K 766.490	3	Lin Thru 0	0.0	2.553	0.00000	0.999863	
Mg 285.213	3	Lin Thru 0	0.0	19.60	0.00000	0.999918	
Mn 257.610	3	Lin Thru 0	0.0	53.25	0.00000	0.999932	
Mo 202.031	3	Lin Thru 0	0.0	42.45	0.00000	0.999958	
Na 589.592	3	Lin Thru 0	0.0	13.21	0.00000	0.999987	
Ni 231.604	3	Lin Thru 0	0.0	63.16	0.00000	0.999900	
P 213.617	3	Lin Thru 0	0.0	6.947	0.00000	0.999979	
Pb 220.353	3	Lin Thru 0	0.0	14.53	0.00000	0.999950	
Sb 206.836	3	Lin Thru 0	0.0	6.271	0.00000	0.999994	
Se 196.026	3	Lin Thru 0	0.0	5.371	0.00000	0.999962	
Sn 189.927	3	Lin Thru 0	0.0	7.091	0.00000	0.999972	
Sr 421.552	3	Lin Thru 0	0.0	1006	0.00000	0.999985	
Ti 337.279	3	Lin Thru 0	0.0	43.73	0.00000	0.999974	
Tl 190.801	3	Lin Thru 0	0.0	6.635	0.00000	0.999966	

V 292.402	3	Lin Thru 0	0.0	234.3	0.00000	0.999976
Zn 206.200	3	Lin Thru 0	0.0	86.85	0.00000	0.999838

Sequence No.: 5
Sample ID: ICV 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 12/11/12 10:26:14 AM
Data Type: Reprocessed on 12/12/12 9:39:32 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65715.4	515.6	ug/L	7.45	515.6	ug/L	7.45	1.44%
QC value within limits for Ag 338.289 Recovery = 103.12%								
Al 308.215	43661.5	26120	ug/L	368.2	26120	ug/L	368.2	1.41%
QC value within limits for Al 308.215 Recovery = 104.49%								
As 188.979	5158.6	985.8	ug/L	4.44	985.8	ug/L	4.44	0.45%
QC value within limits for As 188.979 Recovery = 98.58%								
B	4233.6	1076	ug/L	16.5	1076	ug/L	16.5	1.53%
QC value within limits for B Recovery = 107.58%								
Ba 233.527	163838.5	997.3	ug/L	9.50	997.3	ug/L	9.50	0.95%
QC value within limits for Ba 233.527 Recovery = 99.73%								
Be 313.107	6396963.0	1025	ug/L	14.2	1025	ug/L	14.2	1.38%
QC value within limits for Be 313.107 Recovery = 102.47%								
Ca 315.887	312757.8	26190	ug/L	151.9	26190	ug/L	151.9	0.58%
QC value within limits for Ca 315.887 Recovery = 104.74%								
Cd 214.440	365211.8	1030	ug/L	7.8	1030	ug/L	7.8	0.76%
QC value within limits for Cd 214.440 Recovery = 103.00%								
Co 228.616	70410.7	1028	ug/L	8.8	1028	ug/L	8.8	0.86%
QC value within limits for Co 228.616 Recovery = 102.82%								
Cr 267.716	143607.2	1027	ug/L	8.8	1027	ug/L	8.8	0.86%
QC value within limits for Cr 267.716 Recovery = 102.71%								
Cu 327.393	89650.1	983.0	ug/L	14.23	983.0	ug/L	14.23	1.45%
QC value within limits for Cu 327.393 Recovery = 98.30%								
Fe 273.955	688114.6	26640	ug/L	241.5	26640	ug/L	241.5	0.91%
QC value within limits for Fe 273.955 Recovery = 106.58%								
K 766.490	61786.2	24190	ug/L	432.0	24190	ug/L	432.0	1.79%
QC value within limits for K 766.490 Recovery = 96.76%								
Mg 285.213	515668.3	26340	ug/L	109.2	26340	ug/L	109.2	0.41%
QC value within limits for Mg 285.213 Recovery = 105.38%								
Mn 257.610	54925.9	1032	ug/L	16.1	1032	ug/L	16.1	1.56%
QC value within limits for Mn 257.610 Recovery = 103.19%								
Mo 202.031	42947.3	1015	ug/L	11.7	1015	ug/L	11.7	1.16%
QC value within limits for Mo 202.031 Recovery = 101.45%								
Na 589.592	332983.9	25190	ug/L	145.6	25190	ug/L	145.6	0.58%
QC value within limits for Na 589.592 Recovery = 100.75%								
Ni 231.604	66597.2	1052	ug/L	9.3	1052	ug/L	9.3	0.88%
QC value within limits for Ni 231.604 Recovery = 105.23%								
P 213.617	33306.0	4795	ug/L	44.9	4795	ug/L	44.9	0.94%
QC value within limits for P 213.617 Recovery = 95.89%								
Pb 220.353	15175.4	1045	ug/L	2.0	1045	ug/L	2.0	0.19%
QC value within limits for Pb 220.353 Recovery = 104.47%								
Sb 206.836	6539.9	1043	ug/L	4.6	1043	ug/L	4.6	0.44%
QC value within limits for Sb 206.836 Recovery = 104.28%								
Se 196.026	5413.3	1021	ug/L	5.4	1021	ug/L	5.4	0.53%
QC value within limits for Se 196.026 Recovery = 102.10%								
Sn 189.927	4151.0	585.4	ug/L	1.00	585.4	ug/L	1.00	0.17%
QC value greater than the upper limit for Sn 189.927 Recovery = 117.08%								
Sr 421.552	974239.5	968.2	ug/L	5.29	968.2	ug/L	5.29	0.55%
QC value within limits for Sr 421.552 Recovery = 96.82%								
Ti 337.279	44067.2	1007	ug/L	23.3	1007	ug/L	23.3	2.31%
QC value within limits for Ti 337.279 Recovery = 100.73%								
Tl 190.801	6770.7	1020	ug/L	2.3	1020	ug/L	2.3	0.23%
QC value within limits for Tl 190.801 Recovery = 102.05%								
V 292.402	237723.5	1031	ug/L	11.0	1031	ug/L	11.0	1.06%
QC value within limits for V 292.402 Recovery = 103.13%								
Zn 206.200	91435.6	1062	ug/L	8.6	1062	ug/L	8.6	0.81%
QC value within limits for Zn 206.200 Recovery = 106.22%								

QC Failed. Continue with analysis.

Sequence No.: 6
Sample ID: ICB 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/11/12 10:30:50 AM
Data Type: Reprocessed on 12/12/12 9:39:33 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	85.3	0.669	ug/L	0.6316	0.669	ug/L	0.6316	94.39%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	5.9	3.536	ug/L	7.5576	3.536	ug/L	7.5576	213.71%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.1	1.359	ug/L	0.3508	1.359	ug/L	0.3508	25.82%
QC value within limits for As 188.979 Recovery = Not calculated								
B	41.1	9.639	ug/L	1.6002	9.639	ug/L	1.6002	16.60%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	15.8	0.095	ug/L	0.0146	0.095	ug/L	0.0146	15.28%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-196.1	-0.031	ug/L	0.0096	-0.031	ug/L	0.0096	30.52%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	22.2	1.854	ug/L	1.6557	1.854	ug/L	1.6557	89.33%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	18.6	0.052	ug/L	0.0600	0.052	ug/L	0.0600	114.53%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	8.8	0.129	ug/L	0.0470	0.129	ug/L	0.0470	36.60%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-2.6	-0.019	ug/L	0.0646	-0.019	ug/L	0.0646	337.83%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	57.8	0.634	ug/L	1.1842	0.634	ug/L	1.1842	186.77%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	56.7	2.234	ug/L	0.6876	2.234	ug/L	0.6876	30.77%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-30.9	-12.09	ug/L	37.956	-12.09	ug/L	37.956	313.87%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	7.7	0.398	ug/L	0.2561	0.398	ug/L	0.2561	64.42%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-8.6	-0.162	ug/L	0.0950	-0.162	ug/L	0.0950	58.78%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	5.1	0.119	ug/L	0.2185	0.119	ug/L	0.2185	182.93%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	579.7	43.89	ug/L	5.684	43.89	ug/L	5.684	12.95%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	18.7	0.296	ug/L	0.0698	0.296	ug/L	0.0698	23.62%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-4.2	-0.607	ug/L	0.1056	-0.607	ug/L	0.1056	17.39%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-2.8	-0.192	ug/L	0.1867	-0.192	ug/L	0.1867	97.05%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	7.8	1.250	ug/L	0.1645	1.250	ug/L	0.1645	13.17%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	4.0	0.742	ug/L	1.1446	0.742	ug/L	1.1446	154.19%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	19.6	2.769	ug/L	0.8393	2.769	ug/L	0.8393	30.31%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	148.3	0.147	ug/L	0.1506	0.147	ug/L	0.1506	102.23%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	6.1	0.138	ug/L	0.4227	0.138	ug/L	0.4227	305.42%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	7.5	1.138	ug/L	0.6937	1.138	ug/L	0.6937	60.98%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-98.0	-0.417	ug/L	0.1747	-0.417	ug/L	0.1747	41.84%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-56.5	-0.650	ug/L	0.0961	-0.650	ug/L	0.0961	14.77%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 12/11/12 10:39:37 AM
Data Type: Reprocessed on 12/12/12 9:39:36 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-23.3	-0.183	ug/L	0.2642	-0.183	ug/L	0.2642	144.60%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	316004.5	189000	ug/L	1357.8	189000	ug/L	1357.8	0.72%
QC value within limits for Al 308.215 Recovery = 94.50%								
As 188.979	2.8	0.537	ug/L	1.2657	0.537	ug/L	1.2657	235.51%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2098.3	64.88	ug/L	22.334	64.88	ug/L	22.334	34.42%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	16953.3	0.124	ug/L	2.9051	0.124	ug/L	2.9051	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-751.7	-0.120	ug/L	0.0067	-0.120	ug/L	0.0067	5.58%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2277488.6	190700	ug/L	1786.3	190700	ug/L	1786.3	0.94%
QC value within limits for Ca 315.887 Recovery = 95.36%								
Cd 214.440	3222.4	0.061	ug/L	0.0591	0.061	ug/L	0.0591	96.24%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	295.5	0.287	ug/L	0.0689	0.287	ug/L	0.0689	24.05%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-62.6	0.092	ug/L	0.2229	0.092	ug/L	0.2229	242.77%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-144.6	-1.586	ug/L	0.2311	-1.586	ug/L	0.2311	14.57%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4532721.4	176000	ug/L	724.8	176000	ug/L	724.8	0.41%
QC value within limits for Fe 273.955 Recovery = 88.02%								
K 766.490	259.2	-10.46	ug/L	52.253	-10.46	ug/L	52.253	499.52%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3657555.5	186800	ug/L	1383.6	186800	ug/L	1383.6	0.74%
QC value within limits for Mg 285.213 Recovery = 93.42%								
Mn 257.610	-174.7	-2.390	ug/L	0.3505	-2.390	ug/L	0.3505	14.66%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-564.6	0.032	ug/L	0.1612	0.032	ug/L	0.1612	500.60%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	466.9	-8.853	ug/L	8.1044	-8.853	ug/L	8.1044	91.55%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	29.7	0.267	ug/L	0.2198	0.267	ug/L	0.2198	82.26%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-42.8	-6.162	ug/L	1.6248	-6.162	ug/L	1.6248	26.37%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	4.6	0.314	ug/L	0.6946	0.314	ug/L	0.6946	221.15%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-4.8	-0.760	ug/L	0.3608	-0.760	ug/L	0.3608	47.48%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-476.5	4.206	ug/L	2.2766	4.206	ug/L	2.2766	54.13%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	1.4	0.202	ug/L	1.9232	0.202	ug/L	1.9232	951.20%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2134.8	-0.009	ug/L	0.1226	-0.009	ug/L	0.1226	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	109.9	-0.828	ug/L	1.1108	-0.828	ug/L	1.1108	134.14%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-5.3	-0.804	ug/L	1.2866	-0.804	ug/L	1.2866	160.07%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	10342.5	0.437	ug/L	0.0220	0.437	ug/L	0.0220	5.02%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	585.1	-2.126	ug/L	0.0898	-2.126	ug/L	0.0898	4.22%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 12/11/12 10:44:17 AM
Data Type: Reprocessed on 12/12/12 9:39:37 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	126781.2	994.7	ug/L	5.21	994.7	ug/L	5.21	0.52%
QC value within limits for Ag 338.289 Recovery = 99.47%								
Al 308.215	315921.5	189000	ug/L	541.8	189000	ug/L	541.8	0.29%
QC value within limits for Al 308.215 Recovery = 94.48%								
As 188.979	2445.4	467.3	ug/L	2.09	467.3	ug/L	2.09	0.45%
QC value within limits for As 188.979 Recovery = 93.46%								
B	-2087.5	62.57	ug/L	5.870	62.57	ug/L	5.870	9.38%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	91001.2	458.8	ug/L	3.69	458.8	ug/L	3.69	0.80%
QC value within limits for Ba 233.527 Recovery = 91.77%								
Be 313.107	2909577.3	466.1	ug/L	5.03	466.1	ug/L	5.03	1.08%
QC value within limits for Be 313.107 Recovery = 93.21%								
Ca 315.887	2280068.1	190900	ug/L	664.1	190900	ug/L	664.1	0.35%
QC value within limits for Ca 315.887 Recovery = 95.47%								
Cd 214.440	324489.9	907.0	ug/L	1.91	907.0	ug/L	1.91	0.21%
QC value within limits for Cd 214.440 Recovery = 90.70%								
Co 228.616	31148.4	452.1	ug/L	1.35	452.1	ug/L	1.35	0.30%
QC value within limits for Co 228.616 Recovery = 90.43%								
Cr 267.716	64516.3	462.0	ug/L	2.55	462.0	ug/L	2.55	0.55%
QC value within limits for Cr 267.716 Recovery = 92.39%								
Cu 327.393	43670.2	478.8	ug/L	2.42	478.8	ug/L	2.42	0.51%
QC value within limits for Cu 327.393 Recovery = 95.77%								
Fe 273.955	4499362.4	174700	ug/L	2187.3	174700	ug/L	2187.3	1.25%
QC value within limits for Fe 273.955 Recovery = 87.35%								
K 766.490	120.6	-65.46	ug/L	36.117	-65.46	ug/L	36.117	55.17%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3652695.1	186600	ug/L	448.4	186600	ug/L	448.4	0.24%
QC value within limits for Mg 285.213 Recovery = 93.30%								
Mn 257.610	24661.8	464.0	ug/L	7.34	464.0	ug/L	7.34	1.58%
QC value within limits for Mn 257.610 Recovery = 92.81%								
Mo 202.031	19389.4	470.4	ug/L	2.88	470.4	ug/L	2.88	0.61%
QC value within limits for Mo 202.031 Recovery = 94.07%								
Na 589.592	469.1	-10.31	ug/L	9.408	-10.31	ug/L	9.408	91.21%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	58001.7	917.2	ug/L	0.88	917.2	ug/L	0.88	0.10%
QC value within limits for Ni 231.604 Recovery = 91.72%								
P 213.617	-29.0	-4.176	ug/L	0.9601	-4.176	ug/L	0.9601	22.99%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	13392.2	921.9	ug/L	1.67	921.9	ug/L	1.67	0.18%
QC value within limits for Pb 220.353 Recovery = 92.19%								
Sb 206.836	2934.6	467.9	ug/L	4.96	467.9	ug/L	4.96	1.06%
QC value within limits for Sb 206.836 Recovery = 93.59%								
Se 196.026	2036.4	471.2	ug/L	5.46	471.2	ug/L	5.46	1.16%
QC value within limits for Se 196.026 Recovery = 94.24%								
Sn 189.927	0.2	0.027	ug/L	0.4751	0.027	ug/L	0.4751	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2295.5	0.157	ug/L	0.0967	0.157	ug/L	0.0967	61.74%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	135.3	-0.195	ug/L	0.8140	-0.195	ug/L	0.8140	416.75%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2944.2	443.8	ug/L	2.37	443.8	ug/L	2.37	0.53%
QC value within limits for Tl 190.801 Recovery = 88.75%								
V 292.402	120494.1	482.0	ug/L	3.15	482.0	ug/L	3.15	0.65%
QC value within limits for V 292.402 Recovery = 96.39%								
Zn 206.200	80026.1	917.3	ug/L	1.95	917.3	ug/L	1.95	0.21%
QC value within limits for Zn 206.200 Recovery = 91.73%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/11/12 10:48:58 AM
Data Type: Reprocessed on 12/12/12 9:39:38 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65185.7	511.4	ug/L	3.80	511.4	ug/L	3.80	0.74%
QC value within limits for Ag 338.289 Recovery = 102.28%								
Al 308.215	34558.5	20680	ug/L	61.7	20680	ug/L	61.7	0.30%
QC value within limits for Al 308.215 Recovery = 103.39%								
As 188.979	5376.6	1027	ug/L	1.5	1027	ug/L	1.5	0.14%
QC value within limits for As 188.979 Recovery = 102.75%								
B	4336.6	1080	ug/L	2.6	1080	ug/L	2.6	0.24%
QC value within limits for B Recovery = 107.98%								
Ba 233.527	167816.7	1025	ug/L	6.2	1025	ug/L	6.2	0.60%
QC value within limits for Ba 233.527 Recovery = 102.54%								
Be 313.107	6546900.9	1049	ug/L	7.0	1049	ug/L	7.0	0.66%
QC value within limits for Be 313.107 Recovery = 104.87%								
Ca 315.887	615584.0	51550	ug/L	111.8	51550	ug/L	111.8	0.22%
QC value within limits for Ca 315.887 Recovery = 103.10%								
Cd 214.440	373539.6	1054	ug/L	5.8	1054	ug/L	5.8	0.55%
QC value within limits for Cd 214.440 Recovery = 105.38%								
Co 228.616	71219.9	1040	ug/L	6.1	1040	ug/L	6.1	0.58%
QC value within limits for Co 228.616 Recovery = 104.00%								
Cr 267.716	145417.4	1040	ug/L	5.6	1040	ug/L	5.6	0.54%
QC value within limits for Cr 267.716 Recovery = 103.98%								
Cu 327.393	93031.9	1020	ug/L	9.2	1020	ug/L	9.2	0.90%
QC value within limits for Cu 327.393 Recovery = 102.01%								
Fe 273.955	536398.8	20750	ug/L	111.5	20750	ug/L	111.5	0.54%
QC value within limits for Fe 273.955 Recovery = 103.74%								
K 766.490	50255.2	19670	ug/L	10.5	19670	ug/L	10.5	0.05%
QC value within limits for K 766.490 Recovery = 98.34%								
Mg 285.213	1012150.8	51670	ug/L	114.1	51670	ug/L	114.1	0.22%
QC value within limits for Mg 285.213 Recovery = 103.35%								
Mn 257.610	55486.2	1041	ug/L	1.2	1041	ug/L	1.2	0.11%
QC value within limits for Mn 257.610 Recovery = 104.09%								
Mo 202.031	44012.8	1039	ug/L	6.0	1039	ug/L	6.0	0.57%
QC value within limits for Mo 202.031 Recovery = 103.90%								
Na 589.592	335792.9	25400	ug/L	91.3	25400	ug/L	91.3	0.36%
QC value within limits for Na 589.592 Recovery = 101.59%								
Ni 231.604	66272.0	1047	ug/L	4.8	1047	ug/L	4.8	0.46%
QC value within limits for Ni 231.604 Recovery = 104.71%								
P 213.617	35894.9	5167	ug/L	26.2	5167	ug/L	26.2	0.51%
QC value within limits for P 213.617 Recovery = 103.34%								
Pb 220.353	15238.8	1049	ug/L	3.0	1049	ug/L	3.0	0.28%
QC value within limits for Pb 220.353 Recovery = 104.91%								
Sb 206.836	6465.9	1031	ug/L	4.3	1031	ug/L	4.3	0.41%
QC value within limits for Sb 206.836 Recovery = 103.10%								
Se 196.026	5557.5	1044	ug/L	2.9	1044	ug/L	2.9	0.28%
QC value within limits for Se 196.026 Recovery = 104.37%								
Sn 189.927	7516.1	1060	ug/L	4.8	1060	ug/L	4.8	0.45%
QC value within limits for Sn 189.927 Recovery = 105.99%								
Sr 421.552	1022827.9	1016	ug/L	3.4	1016	ug/L	3.4	0.33%
QC value within limits for Sr 421.552 Recovery = 101.64%								
Ti 337.279	45124.3	1031	ug/L	2.0	1031	ug/L	2.0	0.20%
QC value within limits for Ti 337.279 Recovery = 103.12%								
Tl 190.801	6852.7	1033	ug/L	7.1	1033	ug/L	7.1	0.68%
QC value within limits for Tl 190.801 Recovery = 103.28%								
V 292.402	241405.4	1049	ug/L	4.7	1049	ug/L	4.7	0.45%
QC value within limits for V 292.402 Recovery = 104.89%								
Zn 206.200	91625.4	1065	ug/L	5.8	1065	ug/L	5.8	0.54%
QC value within limits for Zn 206.200 Recovery = 106.49%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 12/11/12 10:53:33 AM
Data Type: Reprocessed on 12/12/12 9:39:39 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-5.4	-0.042	ug/L	0.6187	-0.042	ug/L	0.6187	>999.9%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	6.1	3.604	ug/L	8.9404	3.604	ug/L	8.9404	248.05%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	8.4	1.614	ug/L	0.3185	1.614	ug/L	0.3185	19.73%
QC value within limits for As 188.979 Recovery = Not calculated								
B	34.3	8.044	ug/L	3.6975	8.044	ug/L	3.6975	45.97%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-1.6	-0.013	ug/L	0.1056	-0.013	ug/L	0.1056	841.71%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-220.9	-0.035	ug/L	0.0242	-0.035	ug/L	0.0242	68.51%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	81.2	6.793	ug/L	1.3593	6.793	ug/L	1.3593	20.01%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	6.1	0.017	ug/L	0.0169	0.017	ug/L	0.0169	98.65%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	5.6	0.084	ug/L	0.1679	0.084	ug/L	0.1679	199.31%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-3.8	-0.027	ug/L	0.0711	-0.027	ug/L	0.0711	260.82%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	7.3	0.081	ug/L	1.1353	0.081	ug/L	1.1353	>999.9%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	96.3	3.732	ug/L	0.5228	3.732	ug/L	0.5228	14.01%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	87.4	34.24	ug/L	65.246	34.24	ug/L	65.246	190.57%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	37.2	1.902	ug/L	0.5171	1.902	ug/L	0.5171	27.19%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-5.1	-0.096	ug/L	0.0674	-0.096	ug/L	0.0674	70.24%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	22.2	0.522	ug/L	0.3127	0.522	ug/L	0.3127	59.84%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	604.1	45.71	ug/L	2.600	45.71	ug/L	2.600	5.69%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-8.8	-0.140	ug/L	0.2312	-0.140	ug/L	0.2312	164.97%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	0.3	0.043	ug/L	0.5897	0.043	ug/L	0.5897	>999.9%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-4.1	-0.283	ug/L	0.3487	-0.283	ug/L	0.3487	123.22%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	10.2	1.631	ug/L	0.3414	1.631	ug/L	0.3414	20.94%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	1.7	0.322	ug/L	1.0121	0.322	ug/L	1.0121	314.03%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	20.3	2.868	ug/L	0.8930	2.868	ug/L	0.8930	31.14%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	157.5	0.157	ug/L	0.1885	0.157	ug/L	0.1885	120.43%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-7.9	-0.182	ug/L	0.1413	-0.182	ug/L	0.1413	77.77%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	6.6	0.993	ug/L	0.1913	0.993	ug/L	0.1913	19.27%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	14.8	0.070	ug/L	0.2975	0.070	ug/L	0.2975	427.88%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-84.7	-0.975	ug/L	0.0666	-0.975	ug/L	0.0666	6.84%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 112
Sample ID: CCV1 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/11/12 7:11:39 PM
Data Type: Reprocessed on 12/12/12 9:41:24 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	58402.9	458.2	ug/L	9.79	458.2	ug/L	9.79	2.14%
QC value within limits for Ag 338.289 Recovery = 91.64%								
Al 308.215	30911.4	18500	ug/L	89.0	18500	ug/L	89.0	0.48%
QC value within limits for Al 308.215 Recovery = 92.48%								
As 188.979	4978.7	951.4	ug/L	4.35	951.4	ug/L	4.35	0.46%
QC value within limits for As 188.979 Recovery = 95.14%								
B	3674.1	918.8	ug/L	7.90	918.8	ug/L	7.90	0.86%
QC value within limits for B Recovery = 91.88%								
Ba 233.527	152045.7	929.0	ug/L	12.30	929.0	ug/L	12.30	1.32%
QC value within limits for Ba 233.527 Recovery = 92.90%								
Be 313.107	6051609.1	969.4	ug/L	10.99	969.4	ug/L	10.99	1.13%
QC value within limits for Be 313.107 Recovery = 96.94%								
Ca 315.887	537594.6	45020	ug/L	409.7	45020	ug/L	409.7	0.91%
QC value within limits for Ca 315.887 Recovery = 90.04%								
Cd 214.440	340461.5	960.5	ug/L	13.18	960.5	ug/L	13.18	1.37%
QC value within limits for Cd 214.440 Recovery = 96.05%								
Co 228.616	64769.2	945.9	ug/L	11.98	945.9	ug/L	11.98	1.27%
QC value within limits for Co 228.616 Recovery = 94.59%								
Cr 267.716	132497.0	947.4	ug/L	11.87	947.4	ug/L	11.87	1.25%
QC value within limits for Cr 267.716 Recovery = 94.74%								
Cu 327.393	84254.2	923.8	ug/L	19.84	923.8	ug/L	19.84	2.15%
QC value within limits for Cu 327.393 Recovery = 92.38%								
Fe 273.955	486811.9	18830	ug/L	233.5	18830	ug/L	233.5	1.24%
QC value within limits for Fe 273.955 Recovery = 94.15%								
K 766.490	45879.9	17960	ug/L	106.1	17960	ug/L	106.1	0.59%
QC value within limits for K 766.490 Recovery = 89.78%								
Mg 285.213	890102.3	45440	ug/L	303.9	45440	ug/L	303.9	0.67%
QC value within limits for Mg 285.213 Recovery = 90.89%								
Mn 257.610	48344.2	906.9	ug/L	5.07	906.9	ug/L	5.07	0.56%
QC value within limits for Mn 257.610 Recovery = 90.69%								
Mo 202.031	40113.3	947.0	ug/L	14.84	947.0	ug/L	14.84	1.57%
QC value within limits for Mo 202.031 Recovery = 94.70%								
Na 589.592	310884.7	23510	ug/L	198.3	23510	ug/L	198.3	0.84%
QC value within limits for Na 589.592 Recovery = 94.06%								
Ni 231.604	60466.8	955.4	ug/L	13.22	955.4	ug/L	13.22	1.38%
QC value within limits for Ni 231.604 Recovery = 95.54%								
P 213.617	32627.5	4697	ug/L	90.1	4697	ug/L	90.1	1.92%
QC value within limits for P 213.617 Recovery = 93.94%								
Pb 220.353	14076.7	969.1	ug/L	9.43	969.1	ug/L	9.43	0.97%
QC value within limits for Pb 220.353 Recovery = 96.91%								
Sb 206.836	6093.0	971.5	ug/L	4.67	971.5	ug/L	4.67	0.48%
QC value within limits for Sb 206.836 Recovery = 97.15%								
Se 196.026	5153.1	967.7	ug/L	3.47	967.7	ug/L	3.47	0.36%
QC value within limits for Se 196.026 Recovery = 96.77%								
Sn 189.927	7024.3	990.6	ug/L	8.38	990.6	ug/L	8.38	0.85%
QC value within limits for Sn 189.927 Recovery = 99.06%								
Sr 421.552	947566.5	941.6	ug/L	8.60	941.6	ug/L	8.60	0.91%
QC value within limits for Sr 421.552 Recovery = 94.16%								
Ti 337.279	40068.6	915.6	ug/L	7.40	915.6	ug/L	7.40	0.81%
QC value within limits for Ti 337.279 Recovery = 91.56%								
Tl 190.801	6223.4	938.0	ug/L	8.18	938.0	ug/L	8.18	0.87%
QC value within limits for Tl 190.801 Recovery = 93.80%								
V 292.402	220466.2	957.9	ug/L	13.74	957.9	ug/L	13.74	1.43%
QC value within limits for V 292.402 Recovery = 95.79%								
Zn 206.200	83848.8	974.5	ug/L	11.75	974.5	ug/L	11.75	1.21%
QC value within limits for Zn 206.200 Recovery = 97.45%								

All analyte(s) passed QC.

Sequence No.: 113
Sample ID: CCB 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/11/12 7:15:08 PM
Data Type: Reprocessed on 12/12/12 9:41:25 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	7.1	0.056	ug/L	1.4422	0.056	ug/L	1.4422	>999.9%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-13.0	-7.808	ug/L	4.1159	-7.808	ug/L	4.1159	52.71%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.6	1.456	ug/L	0.9559	1.456	ug/L	0.9559	65.66%
QC value within limits for As 188.979 Recovery = Not calculated								
B	46.3	10.87	ug/L	1.549	10.87	ug/L	1.549	14.25%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	11.8	0.071	ug/L	0.0605	0.071	ug/L	0.0605	85.02%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-288.1	-0.046	ug/L	0.0123	-0.046	ug/L	0.0123	26.74%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	134.9	11.29	ug/L	1.058	11.29	ug/L	1.058	9.37%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	30.1	0.085	ug/L	0.0555	0.085	ug/L	0.0555	65.47%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-4.2	-0.060	ug/L	0.0458	-0.060	ug/L	0.0458	76.09%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-15.0	-0.108	ug/L	0.0810	-0.108	ug/L	0.0810	74.99%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-82.9	-0.909	ug/L	0.3330	-0.909	ug/L	0.3330	36.63%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	60.4	2.365	ug/L	0.7940	2.365	ug/L	0.7940	33.57%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	54.5	21.36	ug/L	33.162	21.36	ug/L	33.162	155.24%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	67.6	3.449	ug/L	1.1021	3.449	ug/L	1.1021	31.95%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	5.4	0.101	ug/L	0.1599	0.101	ug/L	0.1599	158.23%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	28.2	0.665	ug/L	0.2190	0.665	ug/L	0.2190	32.96%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	1434.4	108.6	ug/L	4.20	108.6	ug/L	4.20	3.87%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-8.1	-0.130	ug/L	0.1491	-0.130	ug/L	0.1491	115.04%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-0.3	-0.047	ug/L	0.7897	-0.047	ug/L	0.7897	>999.9%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-0.7	-0.046	ug/L	0.4319	-0.046	ug/L	0.4319	940.90%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.9	0.617	ug/L	0.5837	0.617	ug/L	0.5837	94.55%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	17.5	3.258	ug/L	1.6813	3.258	ug/L	1.6813	51.61%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	17.7	2.499	ug/L	0.8924	2.499	ug/L	0.8924	35.72%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	248.3	0.247	ug/L	0.0620	0.247	ug/L	0.0620	25.14%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	18.4	0.421	ug/L	0.2241	0.421	ug/L	0.2241	53.30%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	16.7	2.522	ug/L	0.9586	2.522	ug/L	0.9586	38.01%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-48.8	-0.201	ug/L	0.8550	-0.201	ug/L	0.8550	424.97%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-117.9	-1.358	ug/L	0.1353	-1.358	ug/L	0.1353	9.97%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 124
Sample ID: CCV2 121211EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 12/11/12 8:12:25 PM
Data Type: Reprocessed on 12/12/12 9:41:36 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	47287.6	371.0	ug/L	9.54	371.0	ug/L	9.54	2.57%
QC value within limits for Ag 338.289 Recovery = 98.93%								
Al 308.215	24693.9	14770	ug/L	167.3	14770	ug/L	167.3	1.13%
QC value within limits for Al 308.215 Recovery = 98.50%								
As 188.979	3957.9	756.3	ug/L	1.69	756.3	ug/L	1.69	0.22%
QC value within limits for As 188.979 Recovery = 100.85%								
B	2896.8	725.0	ug/L	11.34	725.0	ug/L	11.34	1.56%
QC value within limits for B Recovery = 96.66%								
Ba 233.527	121999.1	745.5	ug/L	11.79	745.5	ug/L	11.79	1.58%
QC value within limits for Ba 233.527 Recovery = 99.40%								
Be 313.107	4825533.8	773.0	ug/L	2.94	773.0	ug/L	2.94	0.38%
QC value within limits for Be 313.107 Recovery = 103.06%								
Ca 315.887	441165.8	36940	ug/L	258.5	36940	ug/L	258.5	0.70%
QC value within limits for Ca 315.887 Recovery = 98.52%								
Cd 214.440	273372.1	771.3	ug/L	10.96	771.3	ug/L	10.96	1.42%
QC value within limits for Cd 214.440 Recovery = 102.83%								
Co 228.616	52273.6	763.5	ug/L	11.95	763.5	ug/L	11.95	1.57%
QC value within limits for Co 228.616 Recovery = 101.80%								
Cr 267.716	106691.3	762.9	ug/L	11.81	762.9	ug/L	11.81	1.55%
QC value within limits for Cr 267.716 Recovery = 101.72%								
Cu 327.393	67733.9	742.7	ug/L	17.00	742.7	ug/L	17.00	2.29%
QC value within limits for Cu 327.393 Recovery = 99.03%								
Fe 273.955	388881.4	15040	ug/L	231.7	15040	ug/L	231.7	1.54%
QC value within limits for Fe 273.955 Recovery = 100.28%								
K 766.490	36461.2	14270	ug/L	46.3	14270	ug/L	46.3	0.32%
QC value within limits for K 766.490 Recovery = 95.13%								
Mg 285.213	725607.8	37040	ug/L	210.8	37040	ug/L	210.8	0.57%
QC value within limits for Mg 285.213 Recovery = 98.78%								
Mn 257.610	38768.4	727.3	ug/L	8.56	727.3	ug/L	8.56	1.18%
QC value within limits for Mn 257.610 Recovery = 96.97%								
Mo 202.031	33367.3	787.6	ug/L	0.37	787.6	ug/L	0.37	0.05%
QC value within limits for Mo 202.031 Recovery = 105.02%								
Na 589.592	254570.1	19260	ug/L	113.0	19260	ug/L	113.0	0.59%
QC value within limits for Na 589.592 Recovery = 102.69%								
Ni 231.604	48776.2	770.7	ug/L	9.50	770.7	ug/L	9.50	1.23%
QC value within limits for Ni 231.604 Recovery = 102.76%								
P 213.617	27984.5	4029	ug/L	131.8	4029	ug/L	131.8	3.27%
QC value within limits for P 213.617 Recovery = 107.43%								
Pb 220.353	11252.5	774.6	ug/L	0.93	774.6	ug/L	0.93	0.12%
QC value within limits for Pb 220.353 Recovery = 103.28%								
Sb 206.836	4838.7	771.5	ug/L	2.54	771.5	ug/L	2.54	0.33%
QC value within limits for Sb 206.836 Recovery = 102.87%								
Se 196.026	4117.1	773.2	ug/L	3.71	773.2	ug/L	3.71	0.48%
QC value within limits for Se 196.026 Recovery = 103.09%								
Sn 189.927	5537.7	780.9	ug/L	6.43	780.9	ug/L	6.43	0.82%
QC value within limits for Sn 189.927 Recovery = 104.13%								
Sr 421.552	767507.1	762.7	ug/L	5.84	762.7	ug/L	5.84	0.77%
QC value within limits for Sr 421.552 Recovery = 101.69%								
Ti 337.279	31903.2	729.0	ug/L	7.88	729.0	ug/L	7.88	1.08%
QC value within limits for Ti 337.279 Recovery = 97.20%								
Tl 190.801	4909.8	740.0	ug/L	1.30	740.0	ug/L	1.30	0.18%
QC value within limits for Tl 190.801 Recovery = 98.67%								
V 292.402	177209.2	770.4	ug/L	11.46	770.4	ug/L	11.46	1.49%
QC value within limits for V 292.402 Recovery = 102.72%								
Zn 206.200	67245.5	781.6	ug/L	10.33	781.6	ug/L	10.33	1.32%
QC value within limits for Zn 206.200 Recovery = 104.21%								

All analyte(s) passed QC.

Sequence No.: 125 Autosampler Location: 2
Sample ID: CCB 121211EA I:PB O:EA Date Collected: 12/11/12 8:19:18 PM
Analyst: Data Type: Reprocessed on 12/12/12 9:41:37 AM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB 121211EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-97.5	-0.765	ug/L	0.5648	-0.765	ug/L	0.5648	73.85%
QC value less than the lower limit for Ag 338.289 Recovery = Not calculated								
Al 308.215	0.4	0.208	ug/L	1.7155	0.208	ug/L	1.7155	826.66%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	6.9	1.320	ug/L	0.6681	1.320	ug/L	0.6681	50.60%
QC value within limits for As 188.979 Recovery = Not calculated								
B	22.2	5.192	ug/L	0.9713	5.192	ug/L	0.9713	18.71%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	14.7	0.088	ug/L	0.0435	0.088	ug/L	0.0435	49.11%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-354.0	-0.057	ug/L	0.0115	-0.057	ug/L	0.0115	20.22%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	4684.6	392.4	ug/L	4.36	392.4	ug/L	4.36	1.11%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	21.4	0.059	ug/L	0.0617	0.059	ug/L	0.0617	104.30%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	11.8	0.171	ug/L	0.2221	0.171	ug/L	0.2221	129.97%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-25.7	-0.185	ug/L	0.1174	-0.185	ug/L	0.1174	63.64%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-38.0	-0.417	ug/L	0.2439	-0.417	ug/L	0.2439	58.46%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	65.3	2.537	ug/L	0.4462	2.537	ug/L	0.4462	17.59%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	27.7	10.76	ug/L	64.505	10.76	ug/L	64.505	599.73%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	212.7	10.85	ug/L	0.341	10.85	ug/L	0.341	3.14%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-5.5	-0.106	ug/L	0.2002	-0.106	ug/L	0.2002	188.52%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	6.4	0.150	ug/L	0.1729	0.150	ug/L	0.1729	115.49%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	2906.9	220.0	ug/L	3.71	220.0	ug/L	3.71	1.68%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	15.1	0.238	ug/L	0.1635	0.238	ug/L	0.1635	68.56%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	1048.6	151.0	ug/L	19.29	151.0	ug/L	19.29	12.78%
QC value greater than the upper limit for P 213.617 Recovery = Not calculated								
Pb 220.353	-8.6	-0.595	ug/L	0.6310	-0.595	ug/L	0.6310	106.08%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-0.9	-0.137	ug/L	0.4319	-0.137	ug/L	0.4319	314.54%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	3.1	0.564	ug/L	1.3893	0.564	ug/L	1.3893	246.48%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-3.2	-0.455	ug/L	0.1614	-0.455	ug/L	0.1614	35.47%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	292.7	0.288	ug/L	0.1486	0.288	ug/L	0.1486	51.60%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	8.1	0.183	ug/L	0.2103	0.183	ug/L	0.2103	114.88%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	11.3	1.703	ug/L	0.3813	1.703	ug/L	0.3813	22.39%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-26.8	-0.115	ug/L	0.3104	-0.115	ug/L	0.3104	268.79%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-16.4	-0.188	ug/L	0.2232	-0.188	ug/L	0.2232	118.75%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/10/12	12/11/12	#6010B-121210A-AY72368
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/05/12	12/05/12	#6010B-121205A-AY72370

Metals SC-Blank-REG MDLs
Printed: 12/13/12 3:08:30 PM

Sequence No.: 59
Sample ID: 121205A-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 134
Date Collected: 12/05/12 2:12:11 PM
Data Type: Reprocessed on 12/06/12 10:13:20 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121205A-3050-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-72.2	-0.556	ug/L	0.5072	-0.022	mg/kg	0.0203	91.25%
Al 308.215	12.2	7.256	ug/L	3.5931	0.290	mg/kg	0.1437	49.52%
As 188.979	4.6	0.822	ug/L	1.2092	0.033	mg/kg	0.0484	147.14%
B	27.8	6.798	ug/L	2.9508	0.272	mg/kg	0.1180	43.41%
Ba 233.527	34.0	0.196	ug/L	0.0731	0.008	mg/kg	0.0029	37.27%
Be 313.107	-458.6	-0.069	ug/L	0.0119	-0.003	mg/kg	0.0005	17.37%
Ca 315.887	496.9	40.15	ug/L	0.953	1.606	mg/kg	0.0381	2.37%
Cd 214.440	113.4	0.284	ug/L	0.0570	0.011	mg/kg	0.0023	20.11%
Co 228.616	1.4	0.023	ug/L	0.3534	0.001	mg/kg	0.0141	>999.9%
Cr 267.716	99.2	0.647	ug/L	0.1586	0.026	mg/kg	0.0063	24.51%
Cu 327.393	178.0	1.408	ug/L	1.0689	0.056	mg/kg	0.0428	75.91%
Fe 273.955	10.5	0.387	ug/L	0.8541	0.015	mg/kg	0.0342	220.67%
K 766.490	78.0	36.23	ug/L	57.886	1.449	mg/kg	2.3154	159.77%
Mg 285.213	42.8	2.219	ug/L	0.6536	0.089	mg/kg	0.0261	29.45%
Mn 257.610	21.1	0.395	ug/L	0.1938	0.016	mg/kg	0.0078	49.09%
Mo 202.031	67.0	1.461	ug/L	0.2579	0.058	mg/kg	0.0103	17.65%
Na 589.592	231.4	18.14	ug/L	1.451	0.725	mg/kg	0.0580	8.00%
Ni 231.604	-91.7	-1.318	ug/L	0.1020	-0.053	mg/kg	0.0041	7.74%
P 213.617	84.5	11.06	ug/L	1.107	0.442	mg/kg	0.0443	10.01%
Pb 220.353	-28.2	-1.718	ug/L	0.1411	-0.069	mg/kg	0.0056	8.21%
Sb 206.836	-2.8	-0.427	ug/L	0.7139	-0.017	mg/kg	0.0286	167.33%
Se 196.026	3.4	0.578	ug/L	2.7728	0.023	mg/kg	0.1109	479.50%
Sn 189.927	-5.5	-0.644	ug/L	0.3251	-0.026	mg/kg	0.0130	50.51%
Sr 421.552	260.2	0.271	ug/L	0.1835	0.011	mg/kg	0.0073	67.69%
Ti 337.279	1.5	0.036	ug/L	0.5071	0.001	mg/kg	0.0203	>999.9%
Tl 190.801	-4.2	-0.594	ug/L	0.6477	-0.024	mg/kg	0.0259	108.95%
V 292.402	-33.0	-0.105	ug/L	0.1573	-0.004	mg/kg	0.0063	149.42%
Zn 206.200	106.3	1.061	ug/L	0.1474	0.042	mg/kg	0.0059	13.89%

Sequence No.: 114
Sample ID: 121210A-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 48
Date Collected: 12/11/12 7:19:27 PM
Data Type: Reprocessed on 12/12/12 9:41:26 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121210A-3050-BLK

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-114.7	-0.900	ug/L	0.2314	-0.036	mg/kg	0.0093	25.71%
Al 308.215	-21.3	-12.78	ug/L	1.130	-0.511	mg/kg	0.0452	8.84%
As 188.979	4.7	0.902	ug/L	0.1156	0.036	mg/kg	0.0046	12.81%
B	28.5	6.681	ug/L	0.6113	0.267	mg/kg	0.0245	9.15%
Ba 233.527	23.1	0.141	ug/L	0.0388	0.006	mg/kg	0.0016	27.53%
Be 313.107	-252.0	-0.040	ug/L	0.0109	-0.002	mg/kg	0.0004	27.12%
Ca 315.887	196.0	16.42	ug/L	1.159	0.657	mg/kg	0.0464	7.06%
Cd 214.440	67.9	0.192	ug/L	0.0361	0.008	mg/kg	0.0014	18.78%
Co 228.616	-6.3	-0.090	ug/L	0.1134	-0.004	mg/kg	0.0045	125.46%
Cr 267.716	16.2	0.115	ug/L	0.1076	0.005	mg/kg	0.0043	93.34%
Cu 327.393	-81.4	-0.892	ug/L	0.6107	-0.036	mg/kg	0.0244	68.45%
Fe 273.955	62.1	2.418	ug/L	0.9454	0.097	mg/kg	0.0378	39.10%
K 766.490	-90.4	-35.40	ug/L	56.332	-1.416	mg/kg	2.2533	159.14%
Mg 285.213	86.3	4.409	ug/L	0.3681	0.176	mg/kg	0.0147	8.35%
Mn 257.610	-0.6	-0.012	ug/L	0.2125	0.000	mg/kg	0.0085	>999.9%
Mo 202.031	38.4	0.906	ug/L	0.2079	0.036	mg/kg	0.0083	22.96%
Na 589.592	1365.8	103.4	ug/L	8.75	4.136	mg/kg	0.3498	8.46%
Ni 231.604	-40.2	-0.637	ug/L	0.2067	-0.025	mg/kg	0.0083	32.46%
P 213.617	131.4	18.92	ug/L	0.626	0.757	mg/kg	0.0250	3.31%
Pb 220.353	-27.1	-1.868	ug/L	0.3574	-0.075	mg/kg	0.0143	19.13%
Sb 206.836	-0.8	-0.122	ug/L	0.4041	-0.005	mg/kg	0.0162	330.98%
Se 196.026	9.9	1.837	ug/L	3.2051	0.073	mg/kg	0.1282	174.50%
Sn 189.927	-2.3	-0.318	ug/L	1.2132	-0.013	mg/kg	0.0485	381.19%
Sr 421.552	141.8	0.141	ug/L	0.1239	0.006	mg/kg	0.0050	88.15%
Ti 337.279	22.4	0.512	ug/L	0.5893	0.020	mg/kg	0.0236	115.09%
Tl 190.801	-2.0	-0.296	ug/L	0.2686	-0.012	mg/kg	0.0107	90.63%
V 292.402	-9.5	-0.028	ug/L	0.3067	-0.001	mg/kg	0.0123	>999.9%
Zn 206.200	-106.1	-1.220	ug/L	0.1032	-0.049	mg/kg	0.0041	8.46%

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.3	103	80-120	12/05/12	12/05/12	#6010B-121205A-AY72370

Comments: _____

Sequence No.: 60
Sample ID: 121205A-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 135
Date Collected: 12/05/12 2:16:36 PM
Data Type: Reprocessed on 12/06/12 10:13:21 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121205A-3050-LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	12819.8	98.70	ug/L	2.630	3.948	mg/kg	0.1052	2.67%
Al 308.215	3336.1	2001	ug/L	11.5	80.06	mg/kg	0.459	0.57%
As 188.979	1333.0	239.0	ug/L	1.10	9.560	mg/kg	0.0440	0.46%
B	1020.5	251.6	ug/L	3.90	10.07	mg/kg	0.156	1.55%
Ba 233.527	42056.3	243.7	ug/L	4.04	9.746	mg/kg	0.1617	1.66%
Be 313.107	329721.9	49.32	ug/L	0.827	1.973	mg/kg	0.0331	1.68%
Ca 315.887	315129.0	25470	ug/L	156.6	1019	mg/kg	6.3	0.61%
Cd 214.440	20283.7	50.59	ug/L	0.213	2.024	mg/kg	0.0085	0.42%
Co 228.616	18810.4	257.4	ug/L	1.02	10.30	mg/kg	0.041	0.40%
Cr 267.716	39782.2	259.8	ug/L	3.82	10.39	mg/kg	0.153	1.47%
Cu 327.393	29894.5	236.4	ug/L	2.83	9.458	mg/kg	0.1130	1.19%
Fe 273.955	28097.3	1001	ug/L	13.2	40.04	mg/kg	0.528	1.32%
K 766.490	10385.1	4823	ug/L	75.0	192.9	mg/kg	3.00	1.56%
Mg 285.213	482977.3	25060	ug/L	127.5	1002	mg/kg	5.1	0.51%
Mn 257.610	14090.2	263.0	ug/L	0.77	10.52	mg/kg	0.031	0.29%
Mo 202.031	12170.5	265.6	ug/L	1.18	10.62	mg/kg	0.047	0.45%
Na 589.592	305873.3	24000	ug/L	113.6	959.9	mg/kg	4.54	0.47%
Ni 231.604	18052.7	258.9	ug/L	1.05	10.36	mg/kg	0.042	0.40%
P 213.617	14766.4	1932	ug/L	7.7	77.26	mg/kg	0.310	0.40%
Pb 220.353	4214.2	257.0	ug/L	1.02	10.28	mg/kg	0.041	0.40%
Sb 206.836	1541.6	239.1	ug/L	1.19	9.562	mg/kg	0.0476	0.50%
Se 196.026	1335.3	229.6	ug/L	0.88	9.183	mg/kg	0.0352	0.38%
Sn 189.927	2311.2	269.8	ug/L	1.33	10.79	mg/kg	0.053	0.49%
Sr 421.552	234987.5	244.9	ug/L	1.06	9.795	mg/kg	0.0425	0.43%
Ti 337.279	10888.2	263.1	ug/L	0.94	10.52	mg/kg	0.038	0.36%
Tl 190.801	1731.9	245.7	ug/L	1.42	9.828	mg/kg	0.0567	0.58%
V 292.402	64120.9	262.1	ug/L	3.64	10.48	mg/kg	0.146	1.39%
Zn 206.200	51385.7	512.2	ug/L	8.56	20.49	mg/kg	0.342	1.67%

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	9.4	94.0	80-120	12/10/12	12/11/12	#6010B-121210A-AY72368

Comments: _____

Sequence No.: 115
Sample ID: 121210A-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 49
Date Collected: 12/11/12 7:23:51 PM
Data Type: Reprocessed on 12/12/12 9:41:27 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121210A-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	11615.6	91.13	ug/L	2.444	3.645	mg/kg	0.0977	2.68%
Al 308.215	2953.3	1768	ug/L	7.1	70.74	mg/kg	0.285	0.40%
As 188.979	1161.6	222.0	ug/L	0.78	8.879	mg/kg	0.0312	0.35%
B	916.1	216.5	ug/L	1.51	8.661	mg/kg	0.0606	0.70%
Ba 233.527	37494.2	231.3	ug/L	0.36	9.251	mg/kg	0.0145	0.16%
Be 313.107	292356.1	46.83	ug/L	0.285	1.873	mg/kg	0.0114	0.61%
Ca 315.887	264781.6	22170	ug/L	210.6	887.0	mg/kg	8.42	0.95%
Cd 214.440	16610.1	46.98	ug/L	0.086	1.879	mg/kg	0.0034	0.18%
Co 228.616	16233.7	237.1	ug/L	0.36	9.484	mg/kg	0.0146	0.15%
Cr 267.716	34974.6	249.9	ug/L	0.36	9.997	mg/kg	0.0143	0.14%
Cu 327.393	20191.1	221.4	ug/L	3.08	8.856	mg/kg	0.1234	1.39%
Fe 273.955	24809.7	943.2	ug/L	0.44	37.73	mg/kg	0.018	0.05%
K 766.490	10642.6	4167	ug/L	72.7	166.7	mg/kg	2.91	1.74%
Mg 285.213	433689.2	22130	ug/L	169.1	885.3	mg/kg	6.77	0.76%
Mn 257.610	12013.9	224.7	ug/L	0.57	8.987	mg/kg	0.0229	0.26%
Mo 202.031	10320.3	243.3	ug/L	0.28	9.732	mg/kg	0.0114	0.12%
Na 589.592	299848.3	22690	ug/L	160.4	907.7	mg/kg	6.42	0.71%
Ni 231.604	15317.7	242.0	ug/L	0.74	9.679	mg/kg	0.0298	0.31%
P 213.617	12666.2	1823	ug/L	5.0	72.93	mg/kg	0.199	0.27%
Pb 220.353	3397.1	233.9	ug/L	1.26	9.354	mg/kg	0.0502	0.54%
Sb 206.836	1409.1	224.7	ug/L	0.25	8.987	mg/kg	0.0099	0.11%
Se 196.026	1156.9	214.7	ug/L	1.91	8.590	mg/kg	0.0766	0.89%
Sn 189.927	1752.6	247.2	ug/L	1.78	9.886	mg/kg	0.0712	0.72%
Sr 421.552	230236.6	228.7	ug/L	1.81	9.149	mg/kg	0.0723	0.79%
Ti 337.279	9990.8	228.1	ug/L	0.40	9.126	mg/kg	0.0160	0.18%
Tl 190.801	1469.7	221.5	ug/L	0.54	8.861	mg/kg	0.0215	0.24%
V 292.402	54852.5	239.4	ug/L	1.32	9.577	mg/kg	0.0528	0.55%
Zn 206.200	40681.0	471.3	ug/L	1.84	18.85	mg/kg	0.073	0.39%

Metals Standards Log Book # 36

050

BC 12/4/12
6020/6020A
(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A
Today's Date 12/04/12
Expires. 12/11/12
Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL Di Water
Lot #L12065
20 mL HCL / 2000mL Di Water
Lot #51358
Expires 12/11/12

Internal Standard Mix: Prep 11/29/2012

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1 0% HCL 12/04/12

Standard 3 12/11/12

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	ABS STDS	012512-30926
25 uL	CCV-B	ABS STDS	021312-30928
25 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1 0% HCL 12/04/12

Intermediate-Sb 12/11/12
100 uL of Sb STD (CPI 12A011-30298) in 10 mL of 1% HNO3/1.0% HCL
ICV-Sb 12/11/12
100 uL of Intermediate-Sb in 10 mL of 1% HNO3/1.0% HCL

BC 12/4/12

Standard 2 12/11/12

Amount	STD	
500 uL	Standard 4	12/04/12

Prepared in 50 mL of 1% HNO3/1 0% HCL 12/04/12

Standard 1 12/11/12

Amount	STD	
50 uL	Standard 4	12/04/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 12/04/12

ICP-MS ICV 12/11/12

Amount	STD		
50 uL	QCS ICV A	CPI	11C184-30611
50 uL	QCS ICV B	CPI	11C184-30612

Prepared in 50 mL of 1% HNO3/1 0% HCL 12/04/12

ICSA Prep: 12/11/12

1 mL	ICSA	CPI	12I082-31307

Prepared in 5 mL of 1% HNO3/1 0% HCL 12/04/12

ICSAB Prep: 12/11/12

1mL	ICSA	CPI	12I082-31307
0 025mL	INT	O2Si	1032370-30265

Prepared in 5 mL of 1% HNO3/1 0% HCL 12/04/12

ICP-LDR 12/11/12

Amount	STD		
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 10 mL of 1% HNO3/1.0% HCL 12/04/12

~~LO 12/3/12~~ (1) LO 12/4/12

LO ~~12/03/12~~
LO (1) 12/04/12

Hg WORKING STANDARD 7470A/7471/245.1

1ml X 10ug/ml Hg STOCK STD. (12/03/12LO)/200ml 1% HNO3 Lot#L12065
1ml X 10ug/ml Hg STOCK ICV (12/03/12LO)/200ml 1% HNO3 Lot#L12065
Final concentration is 50 ug/L. Expires daily

LO 12/4/12

EA 6010B-C
(A)
12-5-12

1%HNO3 / 5%HCl BLK				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	EMD	UN1789-265	10/22/12
20 mL	HNO3	JT BAKER	L10023-266	10/24/12
Prepared in 2000 ml DI Water				

STD 1 / LDL 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13
Prepared in 50 ml 1%HNO3/5%HCl				

STD 3 / HDL 6010B/6010C				
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15
Prepared in 100 ml 1%HNO3 / 5%HCl				

STD 2 / CCV1 6010B/6010C/6010C			
AMOUNT	STD	PREP DATE	EXP DATE
25mL	STD 3	Today	1 week
25mL	1%HNO3/5%HCl	Today	1 week

CCV2 6010B/6010C			
AMOUNT	STD	PREP DATE	EXP DATE
15mL	STD 3	Today	1 week
25mL	1%HNO3/5%HCl	Today	1 week

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 1%HNO3/5%HCl				

6010B/6010C ICSAB				
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 50 ml 1%HNO3/5%HCl				

6010B/6010C ICV				
0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 1%HNO3/5%HCl				

EA 12-5-12

~~LO 12/5/12~~

LO 12/05/12

Hg WORKING STANDARDS 7470A/7471/245.1		
Hg WORKING STD	1ml 10ug/ml Hg STOCK STD. 12/03/12 exp: 12/31/12 and 2mL HNO3 JT Baker LOT#L12065 final conc: 50ug/L to final vol 200mL with milipore water expires daily	
Hg WORKING ICV	1ml 10ug/ml Hg STOCK ICV 12/03/12 exp: 12/31/12 and 2mL HNO3 JT Baker LOT#L12065 final conc: 50ug/L to final vol 200mL with milipore water expires daily	

Metals Standards Log Book # 36 Page # 055

EA 12-11-12
6010B-C
A

1%HNO3 / 5%HCl BLK				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	EMD	UN1789-265	10/22/12
20 mL	HNO3	JT BAKER	L10023-266	10/24/12
Prepared in 2000 ml DI Water				
STD 1 / LDL 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
STD 3 / HDL 6010B/6010C				
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15
Prepared in 100 ml 1%HNO3 / 5%HCl				
STD 2 / CCV1 6010B/6010C/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
25mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	
CCV2 6010B/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
15mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICSAB				
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICV				
0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 1%HNO3/5%HCl				

EA 12-11-12

EA 12/12/12
6010B-C
A
12/11/12
12/11/13
NM

1%HNO3 / 5%HCl BLK				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	EMD	UN1789-265	10/22/12
20 mL	HNO3	JT BAKER	L10023-266	10/24/12
Prepared in 2000 ml DI Water				
STD 1 / LDL 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.5 mL	6010 LDL	O2SI	1039165-31300	10/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
STD 3 / HDL 6010B/6010C				
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15
Prepared in 100 ml 1%HNO3 / 5%HCl				
STD 2 / CCV1 6010B/6010C/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
25mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	
CCV2 6010B/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
15mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICSAB				
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICV				
0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 1%HNO3/5%HCl				

EA 12-12-12
6010B-C
A

IEC SPIKES EACH PREPARED SEPARATELY IN 10mL 1% HNO3 / 5% HCl PREP:TODAY, EXP 1 WEEK

STD		AMOUNT (mL)	CONC (ug/mL)	MANUFACTURER	LOT	EXP DATE	CONC Final (ug/mL)
Al		0.2	10000	CPI	11J015-30092	05/28/13	200
Ca		0.2	10000	CPI	11J031-29989	05/14/13	200
Fe		0.2	10000	O2SI	1030787-30616	05/17/13	200
Mg		0.2	10000	CPI	11K178-30093	05/28/13	200
Na		0.2	10000	O2SI	1036027-30752	11/03/13	200
K		2	1000	O2SI	1032437-30266	07/19/13	200
Co		1	1000	CPI	11K232-30304	7/26/13	100
Cr		1	1000	CPI	11G081-29343	02/05/13	100
Cu		1	1000	CPI	11J085-30302	07/26/13	100
Mo		1	1000	CPI	11H133-31306	03/11/14	100
Ni		1	1000	CPI	12B006-30771	11/16/13	100
Ti		1	1000	CPI	11K007-30299	07/26/13	100
Tl		1	1000	CPI	12B176-30772	11/16/13	100
V		1	1000	CPI	12C220-30773	11/16/13	100
Zn		1	1000	CPI	11K239-30303	07/26/13	100
Mn		1	1000	CPI	12F026-31304	03/11/14	100

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121205A **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 1039704-31514		
Spiked ID 2	LCSW LOT# 1039705-31515		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	12/05/12 8:10:00 AM
Witnessed By	BC	Date:	12/05/12 8:10:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	12/05/12 14:00

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121205A Blk				2.50g	100mL	12/05/12 8:10	equip: Modblock4
2	121205A LCS		1mL	1+2	2.50g	100mL	12/05/12 8:10	equip: Modblock4
3	AY71797	AY71797M01			1.93g	100mL	12/05/12 8:10	equip: Modblock4
4	AY71800	AY71800M01			1.62g	100mL	12/05/12 8:10	equip: Modblock4
5	AY71803	AY71803M01			1.42g	100mL	12/05/12 8:10	equip: Modblock4
6	AY71930	AY71930M01			2.54g	100mL	12/05/12 8:10	equip: Modblock4
7	AY71933	AY71933M01			2.18g	100mL	12/05/12 8:10	equip: Modblock4
8	AY72186	AY72186M01			2.56g	100mL	12/05/12 8:10	equip: Modblock4
9	AY72187	AY72187M01			2.54g	100mL	12/05/12 8:10	equip: Modblock4
10	AY72189	AY72189M01			2.57g	100mL	12/05/12 8:10	equip: Modblock4
11	AY72190	AY72190M01			2.44g	100mL	12/05/12 8:10	equip: Modblock4
12	AY72369	AY72369M01			2.45g	100mL	12/05/12 8:10	equip: Modblock4
13	AY72370	AY72370M01			2.50g	100mL	12/05/12 8:10	equip: Modblock4
14	AY72370 MS	AY72370M01	2mL	1+2	2.50g	100mL	12/05/12 8:10	equip: Modblock4
15	AY72370 MSD	AY72370M01	2mL	1+2	2.50g	100mL	12/05/12 8:10	equip: Modblock4

Solvent and Lot#
:1 HNO3 11-9-12
fNO3 J.T.B. L10023 0280
12O2 J.T.B K20J00 0254
ICL EMD Lot# 4112030 0278

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	SA
Date	12-5-12
Time	14:00
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	12/05/12 10:48:24 AM

Reviewed By: SA **Date:** 12-5-12

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121210A **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 1039704-31514		
Spiked ID 2	LCSW LOT# 1039705-31515		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	12/10/12 9:00:00 AM
Witnessed By	RJS	Date:	12/10/12 9:00:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	12/10/12 15:00

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121210A Blk				2.50g	100mL	12/10/12 9:00	equip: Modblock4
2	121210A LCS		1mL	1+2	2.50g	100mL	12/10/12 9:00	equip: Modblock4
3	AY72095	AY72095M01			2.02g	100mL	12/10/12 9:00	equip: Modblock4
4	AY72098	AY72098M01			2.04g	100mL	12/10/12 9:00	equip: Modblock4
5	AY72101	AY72101M01			2.13g	100mL	12/10/12 9:00	equip: Modblock4
6	AY72185	AY72185M01			2.00g	100mL	12/10/12 9:00	equip: Modblock4
7	AY72188	AY72188M01			2.06g	100mL	12/10/12 9:00	equip: Modblock4
8	AY72368	AY72368M01			2.00g	100mL	12/10/12 9:00	equip: Modblock4

Solvent and Lot#
1:1 HNO3 11-9-12
HNO3 J.T.B. L10023 0281
H2O2 EMD K20J00 0254
HCL EMD Lot# 4112030 0282

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	EA
Date	12-10-12
Time	15:00
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	12/10/12 9:39:37 AM

Reviewed By: EA **Date:** 12-10-12

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	05 Dec 2012	09:41	CalBlk 121205EA I:PB O:EA		121205A6010	1.
2	05 Dec 2012	09:46	STD 1 121205EA I:PB O:EA		121205A6010	1.
3	05 Dec 2012	09:50	STD 2 121205EA I:PB O:EA		121205A6010	1.
4	05 Dec 2012	09:53	STD 3 121205EA I:PB O:EA		121205A6010	1.
5	05 Dec 2012	09:57	ICV 121205EA I:PB O:EA		121205A6010	1.
6	05 Dec 2012	10:00	ICB 121205EA I:PB O:EA		121205A6010	1.
8	05 Dec 2012	10:13	ICSA 121205EA I:PB O:EA		121205A6010	1.
9	05 Dec 2012	10:18	ICSAB 121205EA I:PB O:EA		121205A6010	1.
10	05 Dec 2012	10:22	CCV1 121205EA I:PB O:EA		121205A6010	1.
11	05 Dec 2012	10:26	CCB 121205EA I:PB O:EA		121205A6010	1.
57	05 Dec 2012	14:03	CCV1 121205EA I:PB O:EA		121205A6010	1.
58	05 Dec 2012	14:07	CCB 121205EA I:PB O:EA		121205A6010	1.
59	05 Dec 2012	14:12	121205A-3050-BLK		121205A6010	1.
60	05 Dec 2012	14:16	121205A-3050-LCS		121205A6010	1.
68	05 Dec 2012	15:23	CCV2 121205EA I:PB O:EA		121205A6010	1.
69	05 Dec 2012	15:29	CCB 121205EA I:PB O:EA		121205A6010	1.
73	05 Dec 2012	15:50	AY72369M01		121205A6010	1.
79	05 Dec 2012	16:25	CCV1 121205EA I:PB O:EA		121205A6010	1.
80	05 Dec 2012	16:37	CCB 121205EA I:PB O:EA		121205A6010	1.

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	11 Dec 2012	10:06	CalBlk 121211EA I:PB O:EA		121211A6010	1.
2	11 Dec 2012	10:10	STD 1 121211EA I:PB O:EA		121211A6010	1.
3	11 Dec 2012	10:14	STD 2 121211EA I:PB O:EA		121211A6010	1.
4	11 Dec 2012	10:18	STD 3 121211EA I:PB O:EA		121211A6010	1.
5	11 Dec 2012	10:26	ICV 121211EA I:PB O:EA		121211A6010	1.
6	11 Dec 2012	10:30	ICB 121211EA I:PB O:EA		121211A6010	1.
8	11 Dec 2012	10:39	ICSA 121211EA I:PB O:EA		121211A6010	1.
9	11 Dec 2012	10:44	ICSAB 121211EA I:PB O:EA		121211A6010	1.
10	11 Dec 2012	10:48	CCV1 121211EA I:PB O:EA		121211A6010	1.
11	11 Dec 2012	10:53	CCB 121211EA I:PB O:EA		121211A6010	1.
112	11 Dec 2012	19:11	CCV1 121211EA I:PB O:EA		121211A6010	1.
113	11 Dec 2012	19:15	CCB 121211EA I:PB O:EA		121211A6010	1.
114	11 Dec 2012	19:19	121210A-3050-BLK		121211A6010	1.
115	11 Dec 2012	19:23	121210A-3050-LCS		121211A6010	1.
121	11 Dec 2012	19:56	AY72368M01		121211A6010	1.
122	11 Dec 2012	20:02	AY72368M01-A		121211A6010	1.
124	11 Dec 2012	20:12	CCV2 121211EA I:PB O:EA		121211A6010	1.
125	11 Dec 2012	20:19	CCB 121211EA I:PB O:EA		121211A6010	1.

Wetlab Results

ARF: 69412

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
APPL ID: AY72369	-Client Sample ID: GT12032L		-Sample Collection Date: 11/28/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	69.5	2.0	%	12/06/12	12/07/12

Printed: 12/18/12 9:50:17 AM

% Moisture

Batch: QCG 121206-M004577

Method: CLP 4.0

Date: 12/06/12 15:55

Sample	Container	Pan (g)	Pan+Wet (g)	Pan+Dry 1 (g)	Pan+Dry 2 (g)	Moisture (%)	Comments
AY72369	m01	0.8348 12/06/12 15:55	7.2095 12/06/12 15:56	2.7794 12/07/12 08:02	2.7794 12/07/12 08:02	69.495	ay72369m01
AY72189	m01	0.8362 12/06/12 15:53	7.9391 12/06/12 15:55	2.7482 12/07/12 08:02	2.7481 12/07/12 08:02	73.083	ay72189m01
AY72186D	m01	0.8381 12/06/12 15:52	7.3523 12/06/12 15:53	2.5457 12/07/12 08:02	2.5457 12/07/12 08:02	73.786	ay72186m01
AY72186	m01	0.8381 12/06/12 15:51	7.0357 12/06/12 15:52	2.4644 12/07/12 08:02	2.4643 12/07/12 08:02	73.761	ay72186m01

Date/Time InOven@104°C	Date/Time OutOven@104°C	Date/Time InOven@104°C	Date/Time OutOven@104°C
12/06/12 3:57:00 PM			12/07/12 8:02:00 AM

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
12-5-12	CK	Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0001 g	19.9800	20.0200	
		Mettler AT200	50g	50.0003 g	49.9500	50.0500	
		Mettler AT200	100g	100.0006 g	99.9000	100.1000	
		Mettler AT200	150g	150.0009 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	999.98 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
12/6/12	BB						Yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0001 g	19.9800	20.0200	
		Mettler AT200	50g	50.0002 g	49.9500	50.0500	
		Mettler AT200	100g	100.0004 g	99.9000	100.1000	
		Mettler AT200	150g	150.0006 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.01 g	1960.00	2040.00	
12/7/12	BB						Yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0001 g	19.9800	20.0200	
		Mettler AT200	50g	50.0002 g	49.9500	50.0500	
		Mettler AT200	100g	100.0003 g	99.9000	100.1000	
		Mettler AT200	150g	150.0005 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.01 g	1960.00	2040.00	
12/10/12	BB						Yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0002 g	19.9800	20.0200	
		Mettler AT200	50g	50.0003 g	49.9500	50.0500	
		Mettler AT200	100g	100.0003 g	99.9000	100.1000	
		Mettler AT200	150g	150.0006 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.02 g	1960.00	2040.00	

Laboratory Report

Parsons

Project #: 748350.02000 CSSA

ARF: 69413

Sample collected: November 28, 2012

APPL, Inc.

Data Validatable Package

for

Project #: 748350.02000 CSSA

ARF 69413

TABLE OF CONTENTS

LABORATORY NAME: *APPL, Inc.*

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908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

EPA Method 6010B
Metals

Case Narrative

ARF: 69413

Project: 748350.02000 CSSA

California State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Texas Certificate Number: T104704242-10-3

Results in this report apply to the sample analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

The sample was received November 30, 2012, at 2.5°C. The sample was assigned Analytical Request Form (ARF) number 69413. The sample numbers and requested analyses were compared to the chains of custody. No exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
GT12032M	AY72370	MISC	11/28/12	11/30/12

Percent moisture was determined using CLP 4.0.

Digestion Information:

The meat sample was frozen and homogenized according to APPL's SOP PRE003. An aliquot of the homogenized sample was digested according to EPA method 3050B. Since the laboratory was unable to obtain a similar clean matrix, the blank and the LCS were digested according to APPL's SOP PRE3050B. No other exception was encountered. All holding times were met.

Analysis Information:

Samples:

The sample was analyzed according to EPA method 6010B using a Perkin Elmer Optima 5300DV ICP.

Calibrations:

Calibrations were performed according to the method for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard. All other calibration acceptance criteria were met.

Blanks:

No target metal was detected above the reporting limit (RL) in the method blank.

Spikes:

Laboratory Control Spike (LCS), post-digestion spike (PDS), and dilution test were used for quality assurance. All LCS acceptance criteria were met.

Sample GT12032M was selected by the laboratory for dilution test and PDS analysis. The dilution test was not applicable. The PDS met acceptance criteria.

Summary:

No analytical exception is noted. The data generated are acceptable.

CERTIFICATION

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. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

12-13-12

Sharon Dehmlow, Laboratory Director / Date

CASE NARRATIVE

Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other - explain
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel.
Y	Percent difference between primary and confirmation column > 40%

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 69413

lient: **Parsons**
ddress: **8000 Centre Park Drive Ste 200**
Austin, TX 78754
ttn: **Tammy Chang**
none: **512-719-6092** Fax: **512-719-6099**
ob: **748350.02000 CSSA**
O #: **748350.30002 (prime *G012)**
hain of Custody (Y/N): **Y** # **112912APPFA**
AD Screen (Y/N): **Y** pH (Y/N): **N**
urn Around Type: **7 DAYS**

Received by: **WLA**
Date Received: **11/30/12** Time: **10:50**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-6**
Chest Temp(s): **2.5°C**
Color: **A_FREZ**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Diane Anderson** rp
QC Report Type: **DVP4/AFCEE/ERPIMS/TX**
Due Date: **12/07/12**

omments:
elim muscle (meat) data due in 7 calendar days; final report due in 14 calendar days.
ff ARF to Tammy & Pam; send 1 DVP3 HC & send DVP3 & DVP4 on CD to Tammy.

ase Narrative. CSSA QAPP. Only report MS/MSD when requested.
eport results on APPL forms: U to the RL-no J values; report results in wet weight (without moisture
'ait to do moisture analysis after metals analysis.
OD: ERPIMS 4 Lab PC4 checked TXF to Pamela.Ford@parsons.com

12-3 Sent ARF

ample Distribution:
etals: 1-$6010BDODS(Pb)
etlab: 1-MOIST
ther: 1-_M3050

Charges:

Invoice To:
PARSONS GOV'T SERV.
8000 Centre Park Drive Ste 200
Austin, TX 78754-5140
Attn: Ellen Felfe

Client ID	APPL ID	Sampled	Analyses Requested
GT12032M	AY72370M	11/28/12 20:00	$6010BDODS(Pb), MOIST

APPL Sample Receipt Form

ARF# **69413**

Sample	Container Type	Count	pH	Sample	Container Type	Count	pH
AY72370	[35] Plastic Bag	1	NA				

Camp Stanley Storage Activity Chain Of Custody

2.5°C
69462/69413

COC ID:	112912APPFA	Relinquish_Date:	11/29/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF
Job Number:	748350.02	Relinquish_Time:	3:00 PM	Carrier:	FedEx
Creation Date:	11/29/2012	Collection Team:	SE	Airbill Carrier:	876436444134
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): San Elliott

LOCID: **GT12032B** LOGDATE: **11/28/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **20:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12032B_112812_N2000** EBLOT:
Remarks:
Containers: 1
Analysis Required: SW6010B LEAD

LOCID: **GT12032L** LOGDATE: **11/28/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **20:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12032L_112812_N2000** EBLOT:
Remarks:
Containers: 1
Analysis Required: SW6010B LEAD

LOCID: **GT12032M** LOGDATE: **11/28/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **20:00** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12032M_112812_N2000** EBLOT:
Remarks:
Containers: 1
Analysis Required: SW6010B LEAD

Relinquished by: S. Elliott Date 11/29/12 Time 1500
Recieved by: Date 11/30/12 Time 1650

Relinquished by: Date Time
Recieved by: Date Time

Relinquished by: Date Time
Recieved by: Date Time

COOLER RECEIPT FORM

1) Project: 748350.02 CSSA Date Received: 11/30/12

2) Coolers: Number of Coolers: 1

3) YES NO Were coolers and samples screened for radioactivity?

4) YES NO Were custody seals on outside of cooler? How many? 1 Date on seal? 11/29/12

5) Name on seal? See label

6) YES NO NA Were custody seals unbroken and intact at the time of arrival?

7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex

8) Shipping slip numbers: 1) 8764 3644 4134 2) _____ 3) _____

9) YES NO NA Was the shipping slip scanned into the database?

10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Ziploc in wet ice

12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?

13) YES NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: JS297 Correction factor: 0

15) Cooler temp(s): 1) 2.5°C 2) _____ 3) _____ 4) _____ 5) _____ 6) _____ 7) _____ 8) _____

Chain of custody:

16) YES NO Was a chain of custody received?

17) YES NO Were the custody papers signed in the appropriate places?

18) YES NO Was the project identifiable from custody papers?

19) YES NO Did the chain of custody include date and time of sampling?

20) YES NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) YES NO Were container labels in good condition?

22) YES NO Was the client ID on the label?

23) YES NO Was the date of sampling on the label?

24) YES NO Was the time of sampling on the label?

25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?

27) YES NO Did all containers arrive unbroken?

28) YES NO Was there any leakage from samples?

29) YES NO Were any of the lids cracked or broken?

30) YES NO Were correct containers used for the tests indicated?

31) YES NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea: _____

Smaller than a pea: _____

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO NA Unpreserved VOA Vials received? _____

38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF? _____

CUSTODY SEAL 11-29-12
Date & Time Collected
Sample #
Signature

Lab notified if pH was not adequate: _____

Deficiencies: _____

Signature of personnel receiving samples: _____ Second reviewer: _____

Signature of project manager notified: _____ Date and Time of notification: _____

Name of client notified: _____ Date and Time of notification: _____

Information given to client: _____

by whom (Initials): _____

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/05/12	12/05/12	#6010B-121205A-AY72370

Metals SC-Blank-REG MDLs
Printed: 12/07/12 9:18:24 AM

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.3	103	80-120	12/05/12	12/05/12	#6010B-121205A-AY72370

Comments: _____

METALS
Sample Data

APPL, INC.

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12032M
Sample Collection Date: 11/28/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69413
APPL ID: AY72370

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	12/05/12	12/05/12

Printed: 12/07/12 9:18:21 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 74
Sample ID: AY72370M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 146
Date Collected: 12/05/12 3:56:29 PM
Data Type: Reprocessed on 12/06/12 10:13:38 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72370M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-16.6	-0.128	ug/L	1.1276	-0.005	mg/kg	0.0451	881.30%
Al 308.215	21.0	12.80	ug/L	4.686	0.512	mg/kg	0.1875	36.62%
As 188.979	5.1	0.909	ug/L	0.2793	0.036	mg/kg	0.0112	30.74%
B	51.8	15.13	ug/L	1.118	0.605	mg/kg	0.0447	7.38%
Ba 233.527	303.5	1.284	ug/L	0.0499	0.051	mg/kg	0.0020	3.89%
Be 313.107	-188.4	-0.028	ug/L	0.0101	-0.001	mg/kg	0.0004	35.98%
Ca 315.887	20067.1	1617	ug/L	4.8	64.68	mg/kg	0.190	0.29%
Cd 214.440	115.2	0.205	ug/L	0.0479	0.008	mg/kg	0.0019	23.31%
Co 228.616	-0.8	-0.069	ug/L	0.2501	-0.003	mg/kg	0.0100	362.36%
Cr 267.716	256.1	1.673	ug/L	0.0634	0.067	mg/kg	0.0025	3.79%
Cu 327.393	3911.9	30.94	ug/L	0.698	1.238	mg/kg	0.0279	2.26%
Fe 273.955	19218.2	697.4	ug/L	5.77	27.90	mg/kg	0.231	0.83%
K 766.490	147901.8	68720	ug/L	713.1	2749	mg/kg	28.5	1.04%
Mg 285.213	104759.3	5435	ug/L	61.1	217.4	mg/kg	2.44	1.12%
Mn 257.610	195.0	3.386	ug/L	0.1646	0.135	mg/kg	0.0066	4.86%
Mo 202.031	44.1	1.166	ug/L	0.2021	0.047	mg/kg	0.0081	17.33%
Na 589.592	130867.2	10240	ug/L	123.1	409.7	mg/kg	4.92	1.20%
Ni 231.604	-80.9	-1.226	ug/L	0.1280	-0.049	mg/kg	0.0051	10.44%
P 213.617	295283.8	38620	ug/L	329.4	1545	mg/kg	13.2	0.85%
Pb 220.353	-20.7	-1.265	ug/L	0.6653	-0.051	mg/kg	0.0266	52.59%
Sb 206.836	4.4	0.681	ug/L	0.7639	0.027	mg/kg	0.0306	112.18%
Se 196.026	83.2	12.61	ug/L	2.491	0.504	mg/kg	0.0996	19.75%
Sn 189.927	-52.3	-6.104	ug/L	0.4954	-0.244	mg/kg	0.0198	8.12%
Sr 421.552	4725.1	5.105	ug/L	0.1148	0.204	mg/kg	0.0046	2.25%
Ti 337.279	28.0	0.308	ug/L	0.3365	0.012	mg/kg	0.0135	109.18%
Tl 190.801	-3.4	-0.486	ug/L	1.0079	-0.019	mg/kg	0.0403	207.52%
V 292.402	-6.8	-0.272	ug/L	0.2435	-0.011	mg/kg	0.0097	89.59%
Zn 206.200	100019.2	991.9	ug/L	9.17	39.67	mg/kg	0.367	0.92%

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69413 SDG: 69413
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 12/05/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:57	%R(1)	True CCV1	Found 10:22	%R(1)	True CCV1	Found 14:03	%R(1)	
Lead (Pb)	1000	1048	105	1000	1063	106	1000	1037	104	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No: 69413 SDG: 69413

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 12/05/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 9:57	%R(1)	True CCV2	Found 15:23	%R(1)	True CCV1	Found 16:25	%R(1)	
Lead (Pb)	1000	1048	105	750	804.9	107	1000	1028	103	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.

3

BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69413 SDG: 69413

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 12/05/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C		
	10:00		10:26		14:07		15:29		14:12			
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U		P

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69413 SDG: 69413

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 12/05/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	10:00		16:37						14:12		
Lead (Pb)	5.00	U	5.00	U					.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69413 SDG: 69413

ICP ID Number: Phoebe ICS Source: Environmental Express

Analysis Date: 12/05/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 10:13	Sol AB 10:18	%R(1)
Aluminum (Al)	200000	200000	190700	190500	95.3
Calcium (Ca)	200000	200000	192600	192400	96.2
Iron (Fe)	200000	200000	178100	176300	88.2
Magnesium (Mg)	200000	200000	187100	187200	93.6
Lead (Pb)		1000	1.078	941.2	94.1

(1) Control Limits: Metals 80-120

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

GT12032M

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69413 SDG: 69413

Analysis Date: 12/05/12 Concentration Units: mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	19		ND		20.000	95.0		

Comments:

12/05/12 15:56 AY72370M01

12/05/12 16:11 AY72370M01-A

Sequence No.: 77
Sample ID: AY72370M01-A
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 149
Date Collected: 12/05/12 4:11:24 PM
Data Type: Reprocessed on 12/06/12 10:13:41 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72370M01-A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	24236.3	186.6	ug/L	4.58	7.463	mg/kg	0.1832	2.45%
Al 308.215	6384.2	3830	ug/L	53.5	153.2	mg/kg	2.14	1.40%
As 188.979	2453.3	439.9	ug/L	1.94	17.60	mg/kg	0.078	0.44%
B	2007.5	497.0	ug/L	7.02	19.88	mg/kg	0.281	1.41%
Ba 233.527	79746.0	461.6	ug/L	5.74	18.46	mg/kg	0.230	1.24%
Be 313.107	617277.2	92.33	ug/L	1.725	3.693	mg/kg	0.0690	1.87%
Ca 315.887	637305.3	51500	ug/L	312.2	2060	mg/kg	12.5	0.61%
Cd 214.440	36781.1	91.66	ug/L	1.409	3.666	mg/kg	0.0563	1.54%
Co 228.616	35630.0	487.4	ug/L	6.38	19.50	mg/kg	0.255	1.31%
Cr 267.716	73110.7	477.4	ug/L	6.15	19.10	mg/kg	0.246	1.29%
Cu 327.393	64248.8	508.1	ug/L	4.65	20.33	mg/kg	0.186	0.92%
Fe 273.955	70862.6	2536	ug/L	26.2	101.5	mg/kg	1.05	1.03%
K 766.490	163706.8	76060	ug/L	388.9	3042	mg/kg	15.6	0.51%
Mg 285.213	1059763.6	54990	ug/L	321.5	2200	mg/kg	12.9	0.58%
Mn 257.610	27031.5	504.3	ug/L	7.44	20.17	mg/kg	0.298	1.48%
Mo 202.031	22615.2	493.7	ug/L	2.18	19.75	mg/kg	0.087	0.44%
Na 589.592	725682.6	56910	ug/L	391.9	2276	mg/kg	15.7	0.69%
Ni 231.604	33568.3	481.4	ug/L	6.08	19.26	mg/kg	0.243	1.26%
P 213.617	315070.1	41210	ug/L	705.6	1649	mg/kg	28.2	1.71%
Pb 220.353	7788.7	475.0	ug/L	0.99	19.00	mg/kg	0.040	0.21%
Sb 206.836	2924.4	453.5	ug/L	2.70	18.14	mg/kg	0.108	0.60%
Se 196.026	2651.0	454.1	ug/L	1.32	18.16	mg/kg	0.053	0.29%
Sn 189.927	4122.1	481.1	ug/L	3.23	19.24	mg/kg	0.129	0.67%
Sr 421.552	475519.4	495.7	ug/L	3.35	19.83	mg/kg	0.134	0.68%
Ti 337.279	21895.7	528.7	ug/L	7.81	21.15	mg/kg	0.313	1.48%
Tl 190.801	3286.0	466.2	ug/L	0.52	18.65	mg/kg	0.021	0.11%
V 292.402	120041.6	490.2	ug/L	6.38	19.61	mg/kg	0.255	1.30%
Zn 206.200	184960.8	1839	ug/L	19.3	73.56	mg/kg	0.773	1.05%

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 121205A6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1
Sample ID: CalBlk 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 9:41:54 AM
Data Type: Reprocessed on 12/06/12 10:12:12 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CalBlk 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Calib Units
Ag 338.289	-285.5	98.06	34.35%	[0.00]	ug/L
Al 308.215	131.7	11.54	8.76%	[0.00]	ug/L
As 188.979	-3.2	5.27	163.63%	[0.00]	ug/L
B	3.8	13.03	342.06%	[0.00]	ug/L
Ba 233.527	155.1	13.37	8.62%	[0.00]	ug/L
Be 313.107	2029.5	101.46	5.00%	[0.00]	ug/L
Ca 315.887	-289.3	32.18	11.13%	[0.00]	ug/L
Cd 214.440	462.2	19.06	4.12%	[0.00]	ug/L
Co 228.616	96.5	20.64	21.38%	[0.00]	ug/L
Cr 267.716	857.1	12.89	1.50%	[0.00]	ug/L
Cu 327.393	-819.1	107.73	13.15%	[0.00]	ug/L
Fe 273.955	294.3	17.50	5.94%	[0.00]	ug/L
K 766.490	-496.4	39.07	7.87%	[0.00]	ug/L
Mg 285.213	-151.3	7.50	4.96%	[0.00]	ug/L
Mn 257.610	-74.2	5.40	7.28%	[0.00]	ug/L
Mo 202.031	177.7	9.21	5.18%	[0.00]	ug/L
Na 589.592	-148.2	134.40	90.68%	[0.00]	ug/L
Ni 231.604	-156.9	10.43	6.65%	[0.00]	ug/L
P 213.617	68.9	7.90	11.46%	[0.00]	ug/L
Pb 220.353	-28.4	3.93	13.83%	[0.00]	ug/L
Sb 206.836	-5.5	2.73	50.04%	[0.00]	ug/L
Se 196.026	-23.0	9.37	40.78%	[0.00]	ug/L
Sn 189.927	-14.3	3.95	27.72%	[0.00]	ug/L
Sr 421.552	873.4	132.64	15.19%	[0.00]	ug/L
Ti 337.279	-464.2	13.18	2.84%	[0.00]	ug/L
Tl 190.801	-13.0	1.44	11.05%	[0.00]	ug/L
V 292.402	-729.2	116.65	16.00%	[0.00]	ug/L
Zn 206.200	-538.5	10.20	1.89%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 12/05/12 9:46:14 AM
Data Type: Reprocessed on 12/06/12 10:12:13 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	71.4	28.31	39.67%	[1.00]	ug/L
Al 308.215	172.0	10.58	6.15%	[100.00]	ug/L
As 188.979	20.7	1.32	6.41%	[3.50]	ug/L
B	214.2	4.25	1.99%	[50.00]	ug/L
Ba 233.527	920.2	12.86	1.40%	[5.00]	ug/L
Be 313.107	14127.7	101.16	0.72%	[2.00]	ug/L
Ca 315.887	1266.2	23.19	1.83%	[100.00]	ug/L
Cd 214.440	2245.4	21.61	0.96%	[5.00]	ug/L
Co 228.616	406.5	1.33	0.33%	[5.00]	ug/L
Cr 267.716	851.8	12.64	1.48%	[5.00]	ug/L
Cu 327.393	812.3	179.51	22.10%	[5.00]	ug/L
Fe 273.955	1477.8	8.84	0.60%	[50.00]	ug/L
K 766.490	2086.1	57.22	2.74%	[1000.00]	ug/L
Mg 285.213	1062.2	5.76	0.54%	[50]	ug/L
Mn 257.610	287.6	10.85	3.77%	[5.00]	ug/L
Mo 202.031	251.9	13.59	5.39%	[5.00]	ug/L
Na 589.592	13206.9	42.86	0.32%	[1000.00]	ug/L
Ni 231.604	418.5	22.79	5.45%	[5.00]	ug/L
P 213.617	189.6	9.35	4.93%	[25.00]	ug/L
Pb 220.353	55.7	8.70	15.62%	[3.00]	ug/L
Sb 206.836	35.5	1.88	5.30%	[5.00]	ug/L
Se 196.026	29.3	3.53	12.07%	[5.00]	ug/L
Sn 189.927	43.6	4.72	10.85%	[5.00]	ug/L
Sr 421.552	5427.7	89.16	1.64%	[5.00]	ug/L
Ti 337.279	211.7	3.41	1.61%	[5.00]	ug/L
Tl 190.801	38.2	6.13	16.06%	[5.00]	ug/L
V 292.402	1463.6	152.11	10.39%	[5.00]	ug/L
Zn 206.200	2327.6	19.81	0.85%	[20.00]	ug/L

Sequence No.: 3 Autosampler Location: 3
Sample ID: STD 2 121205EA I:PB O:EA Date Collected: 12/05/12 9:50:40 AM
Analyst: Data Type: Reprocessed on 12/06/12 10:12:16 AM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: STD 2 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	65369.6	460.16	0.70%	[500.0]	ug/L
Al 308.215	33816.5	230.58	0.68%	[20000.00]	ug/L
As 188.979	5632.1	39.14	0.70%	[1000.00]	ug/L
B	4114.9	53.17	1.29%	[1000.00]	ug/L
Ba 233.527	175255.0	233.84	0.13%	[1000.00]	ug/L
Be 313.107	6881288.1	29273.50	0.43%	[1000.00]	ug/L
Ca 315.887	622046.8	2722.65	0.44%	[50000]	ug/L
Cd 214.440	413333.8	609.20	0.15%	[1000.00]	ug/L
Co 228.616	74338.4	202.11	0.27%	[1000.00]	ug/L
Cr 267.716	156313.2	297.32	0.19%	[1000.00]	ug/L
Cu 327.393	124193.6	777.04	0.63%	[1000.00]	ug/L
Fe 273.955	560254.1	492.21	0.09%	[20000]	ug/L
K 766.490	42887.8	751.83	1.75%	[20000]	ug/L
Mg 285.213	978477.0	5196.56	0.53%	[50000]	ug/L
Mn 257.610	54405.8	348.65	0.64%	[1000.00]	ug/L
Mo 202.031	47511.6	286.11	0.60%	[1000.00]	ug/L
Na 589.592	319197.7	1655.17	0.52%	[25000]	ug/L
Ni 231.604	71278.1	135.04	0.19%	[1000.00]	ug/L
P 213.617	39518.8	183.32	0.46%	[5000]	ug/L
Pb 220.353	16866.2	138.20	0.82%	[1000.00]	ug/L
Sb 206.836	6471.8	32.35	0.50%	[1000.00]	ug/L
Se 196.026	5913.0	32.42	0.55%	[1000.00]	ug/L
Sn 189.927	8688.8	82.23	0.95%	[1000.00]	ug/L
Sr 421.552	964623.0	5236.09	0.54%	[1000.00]	ug/L
Ti 337.279	41884.1	352.93	0.84%	[1000.00]	ug/L
Tl 190.801	7192.2	62.92	0.87%	[1000.00]	ug/L
V 292.402	253339.6	267.27	0.11%	[1000.00]	ug/L
Zn 206.200	103791.7	235.98	0.23%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 12/05/12 9:53:21 AM
Data Type: Reprocessed on 12/06/12 10:12:20 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	129681.3	1651.97	1.27%	[1000.00]	ug/L
Al 308.215	66535.9	799.92	1.20%	[40000.00]	ug/L
As 188.979	11127.2	121.30	1.09%	[2000.00]	ug/L
B	8154.8	143.74	1.76%	[2000.00]	ug/L
Ba 233.527	343128.5	1419.76	0.41%	[2000.00]	ug/L
Be 313.107	13273827.5	76922.04	0.58%	[2000.00]	ug/L
Ca 315.887	1235512.8	7506.23	0.61%	[100000.0]	ug/L
Cd 214.440	797802.3	1866.48	0.23%	[2000.00]	ug/L
Co 228.616	145380.2	529.93	0.36%	[2000.00]	ug/L
Cr 267.716	304697.4	1583.52	0.52%	[2000.00]	ug/L
Cu 327.393	253995.0	3895.80	1.53%	[2000.00]	ug/L
Fe 273.955	1092857.1	3699.12	0.34%	[40000]	ug/L
K 766.490	86172.5	771.95	0.90%	[40000]	ug/L
Mg 285.213	1919777.1	9559.72	0.50%	[100000]	ug/L
Mn 257.610	106168.1	1365.95	1.29%	[2000.00]	ug/L
Mo 202.031	90898.6	269.92	0.30%	[2000.00]	ug/L
Na 589.592	636760.6	2427.69	0.38%	[50000]	ug/L
Ni 231.604	138279.3	363.32	0.26%	[2000.00]	ug/L
P 213.617	75803.0	366.75	0.48%	[10000]	ug/L
Pb 220.353	32563.3	286.03	0.88%	[2000.00]	ug/L
Sb 206.836	12885.5	125.47	0.97%	[2000.00]	ug/L
Se 196.026	11531.2	81.83	0.71%	[2000.00]	ug/L
Sn 189.927	17075.2	232.38	1.36%	[2000.00]	ug/L
Sr 421.552	1915206.2	8835.13	0.46%	[2000.00]	ug/L
Ti 337.279	82381.7	831.61	1.01%	[2000.00]	ug/L
Tl 190.801	14026.6	160.52	1.14%	[2000.00]	ug/L
V 292.402	498531.6	1618.75	0.32%	[2000.00]	ug/L
Zn 206.200	200413.4	863.50	0.43%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	129.9	0.00000	0.999995	
Al 308.215	3	Lin Thru 0	0.0	1.669	0.00000	0.999978	
As 188.979	3	Lin Thru 0	0.0	5.577	0.00000	0.999988	
B	3	Lin Thru 0	0.0	4.085	0.00000	0.999993	
Ba 233.527	3	Lin Thru 0	0.0	172.3	0.00000	0.999963	
Be 313.107	3	Lin Thru 0	0.0	6686	0.00000	0.999893	
Ca 315.887	3	Lin Thru 0	0.0	12.37	0.00000	0.999996	
Cd 214.440	3	Lin Thru 0	0.0	401.8	0.00000	0.999897	
Co 228.616	3	Lin Thru 0	0.0	73.02	0.00000	0.999959	
Cr 267.716	3	Lin Thru 0	0.0	153.1	0.00000	0.999946	
Cu 327.393	3	Lin Thru 0	0.0	126.4	0.00000	0.999960	
Fe 273.955	3	Lin Thru 0	0.0	27.46	0.00000	0.999949	
K 766.490	3	Lin Thru 0	0.0	2.152	0.00000	0.999998	
Mg 285.213	3	Lin Thru 0	0.0	19.27	0.00000	0.999970	
Mn 257.610	3	Lin Thru 0	0.0	53.35	0.00000	0.999951	
Mo 202.031	3	Lin Thru 0	0.0	45.86	0.00000	0.999838	
Na 589.592	3	Lin Thru 0	0.0	12.74	0.00000	0.999999	
Ni 231.604	3	Lin Thru 0	0.0	69.57	0.00000	0.999924	
P 213.617	3	Lin Thru 0	0.0	7.645	0.00000	0.999857	
Pb 220.353	3	Lin Thru 0	0.0	16.40	0.00000	0.999898	
Sb 206.836	3	Lin Thru 0	0.0	6.449	0.00000	0.999998	
Se 196.026	3	Lin Thru 0	0.0	5.795	0.00000	0.999948	
Sn 189.927	3	Lin Thru 0	0.0	8.568	0.00000	0.999975	
Sr 421.552	3	Lin Thru 0	0.0	959.0	0.00000	0.999996	
Ti 337.279	3	Lin Thru 0	0.0	41.33	0.00000	0.999977	
Tl 190.801	3	Lin Thru 0	0.0	7.049	0.00000	0.999948	

V 292.402	3	Lin Thru 0	0.0	250.1	0.00000	0.999979
Zn 206.200	3	Lin Thru 0	0.0	100.9	0.00000	0.999898

Sequence No.: 5
Sample ID: ICV 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 12/05/12 9:57:09 AM
Data Type: Reprocessed on 12/06/12 10:12:25 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	66064.1	508.6	ug/L	12.37	508.6	ug/L	12.37	2.43%
QC value within limits for Ag 338.289 Recovery = 101.72%								
Al 308.215	41975.7	25160	ug/L	100.2	25160	ug/L	100.2	0.40%
QC value within limits for Al 308.215 Recovery = 100.65%								
As 188.979	5501.0	986.3	ug/L	9.71	986.3	ug/L	9.71	0.98%
QC value within limits for As 188.979 Recovery = 98.63%								
B	4050.1	1070	ug/L	10.6	1070	ug/L	10.6	0.99%
QC value within limits for B Recovery = 107.03%								
Ba 233.527	171624.2	982.4	ug/L	9.83	982.4	ug/L	9.83	1.00%
QC value within limits for Ba 233.527 Recovery = 98.24%								
Be 313.107	6803937.7	1018	ug/L	11.1	1018	ug/L	11.1	1.09%
QC value within limits for Be 313.107 Recovery = 101.77%								
Ca 315.887	310154.9	25060	ug/L	104.0	25060	ug/L	104.0	0.42%
QC value within limits for Ca 315.887 Recovery = 100.23%								
Cd 214.440	411058.9	1022	ug/L	11.3	1022	ug/L	11.3	1.11%
QC value within limits for Cd 214.440 Recovery = 102.25%								
Co 228.616	74490.1	1019	ug/L	10.3	1019	ug/L	10.3	1.01%
QC value within limits for Co 228.616 Recovery = 101.95%								
Cr 267.716	156889.3	1026	ug/L	12.5	1026	ug/L	12.5	1.22%
QC value within limits for Cr 267.716 Recovery = 102.56%								
Cu 327.393	124079.2	981.4	ug/L	7.21	981.4	ug/L	7.21	0.73%
QC value within limits for Cu 327.393 Recovery = 98.14%								
Fe 273.955	694637.1	25210	ug/L	268.9	25210	ug/L	268.9	1.07%
QC value within limits for Fe 273.955 Recovery = 100.85%								
K 766.490	52544.1	24400	ug/L	158.1	24400	ug/L	158.1	0.65%
QC value within limits for K 766.490 Recovery = 97.61%								
Mg 285.213	490192.7	25460	ug/L	127.4	25460	ug/L	127.4	0.50%
QC value within limits for Mg 285.213 Recovery = 101.85%								
Mn 257.610	55533.6	1041	ug/L	5.1	1041	ug/L	5.1	0.49%
QC value within limits for Mn 257.610 Recovery = 104.13%								
Mo 202.031	47918.6	1047	ug/L	7.6	1047	ug/L	7.6	0.73%
QC value within limits for Mo 202.031 Recovery = 104.75%								
Na 589.592	310660.6	24360	ug/L	121.7	24360	ug/L	121.7	0.50%
QC value within limits for Na 589.592 Recovery = 97.44%								
Ni 231.604	72797.9	1044	ug/L	11.2	1044	ug/L	11.2	1.08%
QC value within limits for Ni 231.604 Recovery = 104.44%								
P 213.617	37934.5	4962	ug/L	36.0	4962	ug/L	36.0	0.73%
QC value within limits for P 213.617 Recovery = 99.24%								
Pb 220.353	17185.4	1048	ug/L	5.3	1048	ug/L	5.3	0.50%
QC value within limits for Pb 220.353 Recovery = 104.80%								
Sb 206.836	6762.5	1049	ug/L	7.5	1049	ug/L	7.5	0.72%
QC value within limits for Sb 206.836 Recovery = 104.87%								
Se 196.026	5894.9	1028	ug/L	12.0	1028	ug/L	12.0	1.17%
QC value within limits for Se 196.026 Recovery = 102.82%								
Sn 189.927	4515.2	527.0	ug/L	3.77	527.0	ug/L	3.77	0.71%
QC value within limits for Sn 189.927 Recovery = 105.40%								
Sr 421.552	939727.4	979.6	ug/L	4.52	979.6	ug/L	4.52	0.46%
QC value within limits for Sr 421.552 Recovery = 97.96%								
Ti 337.279	38869.5	940.0	ug/L	7.92	940.0	ug/L	7.92	0.84%
QC value within limits for Ti 337.279 Recovery = 94.00%								
Tl 190.801	7143.7	1013	ug/L	10.7	1013	ug/L	10.7	1.06%
QC value within limits for Tl 190.801 Recovery = 101.34%								
V 292.402	252113.7	1026	ug/L	10.8	1026	ug/L	10.8	1.05%
QC value within limits for V 292.402 Recovery = 102.57%								
Zn 206.200	105528.2	1055	ug/L	9.7	1055	ug/L	9.7	0.92%
QC value within limits for Zn 206.200 Recovery = 105.51%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 10:00:53 AM
Data Type: Reprocessed on 12/06/12 10:12:26 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-31.2	-0.240	ug/L	0.1304	-0.240	ug/L	0.1304	54.33%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	16.5	9.866	ug/L	5.1303	9.866	ug/L	5.1303	52.00%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	1.5	0.266	ug/L	0.6967	0.266	ug/L	0.6967	261.98%
QC value within limits for As 188.979 Recovery = Not calculated								
B	50.2	12.29	ug/L	1.335	12.29	ug/L	1.335	10.86%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-0.6	-0.004	ug/L	0.0603	-0.004	ug/L	0.0603	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	30.5	0.005	ug/L	0.0226	0.005	ug/L	0.0226	495.04%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	20.2	1.630	ug/L	1.6390	1.630	ug/L	1.6390	100.55%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	42.7	0.107	ug/L	0.0600	0.107	ug/L	0.0600	56.22%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	1.3	0.019	ug/L	0.0989	0.019	ug/L	0.0989	525.80%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-17.0	-0.111	ug/L	0.0676	-0.111	ug/L	0.0676	60.96%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	55.6	0.440	ug/L	0.5493	0.440	ug/L	0.5493	124.98%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	21.7	0.784	ug/L	0.4356	0.784	ug/L	0.4356	55.53%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	138.8	64.47	ug/L	104.828	64.47	ug/L	104.828	162.59%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	35.9	1.861	ug/L	0.4357	1.861	ug/L	0.4357	23.41%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-2.8	-0.052	ug/L	0.1176	-0.052	ug/L	0.1176	225.89%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	25.4	0.554	ug/L	0.0857	0.554	ug/L	0.0857	15.47%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	51.8	4.037	ug/L	8.4698	4.037	ug/L	8.4698	209.80%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-24.9	-0.359	ug/L	0.0976	-0.359	ug/L	0.0976	27.20%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-0.5	-0.061	ug/L	0.9811	-0.061	ug/L	0.9811	>999.9%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	13.3	0.811	ug/L	0.7766	0.811	ug/L	0.7766	95.75%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	10.5	1.633	ug/L	0.8130	1.633	ug/L	0.8130	49.80%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-2.2	-0.374	ug/L	3.5161	-0.374	ug/L	3.5161	939.05%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	22.3	2.597	ug/L	0.3017	2.597	ug/L	0.3017	11.61%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	152.8	0.159	ug/L	0.2448	0.159	ug/L	0.2448	153.54%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	14.0	0.338	ug/L	0.2639	0.338	ug/L	0.2639	78.07%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	5.1	0.727	ug/L	0.4798	0.727	ug/L	0.4798	66.02%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	13.1	0.059	ug/L	0.4099	0.059	ug/L	0.4099	697.59%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-23.5	-0.232	ug/L	0.2315	-0.232	ug/L	0.2315	99.64%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 12/05/12 10:13:35 AM
Data Type: Reprocessed on 12/06/12 10:12:28 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	15.4	0.119	ug/L	0.4831	0.119	ug/L	0.4831	407.31%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	318154.2	190700	ug/L	3080.5	190700	ug/L	3080.5	1.62%
QC value within limits for Al 308.215 Recovery = 95.33%								
As 188.979	3.4	0.617	ug/L	0.3376	0.617	ug/L	0.3376	54.75%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2096.2	50.21	ug/L	9.819	50.21	ug/L	9.819	19.55%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	17554.0	0.115	ug/L	3.3435	0.115	ug/L	3.3435	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-860.8	-0.129	ug/L	0.0149	-0.129	ug/L	0.0149	11.61%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2383265.7	192600	ug/L	3182.5	192600	ug/L	3182.5	1.65%
QC value within limits for Ca 315.887 Recovery = 96.30%								
Cd 214.440	3633.5	-0.101	ug/L	0.1738	-0.101	ug/L	0.1738	171.65%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	296.5	-0.018	ug/L	0.4547	-0.018	ug/L	0.4547	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-60.5	0.160	ug/L	0.2606	0.160	ug/L	0.2606	163.00%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-186.0	-1.471	ug/L	0.4392	-1.471	ug/L	0.4392	29.86%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4891063.1	178100	ug/L	1967.6	178100	ug/L	1967.6	1.10%
QC value within limits for Fe 273.955 Recovery = 89.05%								
K 766.490	159.9	-39.15	ug/L	39.600	-39.15	ug/L	39.600	101.14%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3601480.7	187100	ug/L	2883.4	187100	ug/L	2883.4	1.54%
QC value within limits for Mg 285.213 Recovery = 93.54%								
Mn 257.610	-123.0	-1.321	ug/L	0.2889	-1.321	ug/L	0.2889	21.87%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-664.1	-0.990	ug/L	0.2686	-0.990	ug/L	0.2686	27.13%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	22.9	-42.75	ug/L	0.760	-42.75	ug/L	0.760	1.78%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	12.7	-0.015	ug/L	0.5502	-0.015	ug/L	0.5502	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-24.2	-3.170	ug/L	0.8768	-3.170	ug/L	0.8768	27.66%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	17.7	1.078	ug/L	0.9012	1.078	ug/L	0.9012	83.57%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	1.2	0.190	ug/L	0.7490	0.190	ug/L	0.7490	393.21%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-489.0	0.065	ug/L	3.5825	0.065	ug/L	3.5825	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-3.0	-0.354	ug/L	0.4843	-0.354	ug/L	0.4843	136.92%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2310.6	0.253	ug/L	0.0181	0.253	ug/L	0.0181	7.16%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	85.8	-1.278	ug/L	0.4213	-1.278	ug/L	0.4213	32.96%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-4.4	-0.618	ug/L	1.0503	-0.618	ug/L	1.0503	169.87%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	10699.5	-0.023	ug/L	0.7744	-0.023	ug/L	0.7744	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	774.7	-1.316	ug/L	0.5647	-1.316	ug/L	0.5647	42.90%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 12/05/12 10:18:14 AM
Data Type: Reprocessed on 12/06/12 10:12:29 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	129665.2	998.2	ug/L	10.14	998.2	ug/L	10.14	1.02%
QC value within limits for Ag 338.289 Recovery = 99.82%								
Al 308.215	317865.2	190500	ug/L	1164.2	190500	ug/L	1164.2	0.61%
QC value within limits for Al 308.215 Recovery = 95.24%								
As 188.979	2627.4	471.1	ug/L	0.70	471.1	ug/L	0.70	0.15%
QC value within limits for As 188.979 Recovery = 94.22%								
B	-2103.2	41.97	ug/L	12.197	41.97	ug/L	12.197	29.06%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	96267.0	458.3	ug/L	5.00	458.3	ug/L	5.00	1.09%
QC value within limits for Ba 233.527 Recovery = 91.67%								
Be 313.107	3095321.7	463.0	ug/L	2.90	463.0	ug/L	2.90	0.63%
QC value within limits for Be 313.107 Recovery = 92.59%								
Ca 315.887	2380835.7	192400	ug/L	1310.0	192400	ug/L	1310.0	0.68%
QC value within limits for Ca 315.887 Recovery = 96.20%								
Cd 214.440	367860.7	906.7	ug/L	8.39	906.7	ug/L	8.39	0.93%
QC value within limits for Cd 214.440 Recovery = 90.67%								
Co 228.616	33206.2	451.6	ug/L	5.28	451.6	ug/L	5.28	1.17%
QC value within limits for Co 228.616 Recovery = 90.32%								
Cr 267.716	70615.2	462.2	ug/L	2.95	462.2	ug/L	2.95	0.64%
QC value within limits for Cr 267.716 Recovery = 92.43%								
Cu 327.393	58801.6	465.1	ug/L	6.08	465.1	ug/L	6.08	1.31%
QC value within limits for Cu 327.393 Recovery = 93.01%								
Fe 273.955	4841411.2	176300	ug/L	893.8	176300	ug/L	893.8	0.51%
QC value within limits for Fe 273.955 Recovery = 88.13%								
K 766.490	245.2	0.230	ug/L	67.2082	0.230	ug/L	67.2082	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3604298.1	187200	ug/L	1139.2	187200	ug/L	1139.2	0.61%
QC value within limits for Mg 285.213 Recovery = 93.61%								
Mn 257.610	25165.1	472.7	ug/L	4.75	472.7	ug/L	4.75	1.01%
QC value within limits for Mn 257.610 Recovery = 94.53%								
Mo 202.031	21210.4	476.2	ug/L	1.41	476.2	ug/L	1.41	0.30%
QC value within limits for Mo 202.031 Recovery = 95.24%								
Na 589.592	238.4	-27.47	ug/L	16.403	-27.47	ug/L	16.403	59.71%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	63667.6	914.1	ug/L	8.85	914.1	ug/L	8.85	0.97%
QC value within limits for Ni 231.604 Recovery = 91.41%								
P 213.617	-4.2	-0.555	ug/L	2.0106	-0.555	ug/L	2.0106	362.13%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	15434.3	941.2	ug/L	1.55	941.2	ug/L	1.55	0.16%
QC value within limits for Pb 220.353 Recovery = 94.12%								
Sb 206.836	3086.6	478.6	ug/L	1.56	478.6	ug/L	1.56	0.33%
QC value within limits for Sb 206.836 Recovery = 95.73%								
Se 196.026	2269.0	474.9	ug/L	4.84	474.9	ug/L	4.84	1.02%
QC value within limits for Se 196.026 Recovery = 94.98%								
Sn 189.927	-6.2	-0.718	ug/L	1.2353	-0.718	ug/L	1.2353	171.94%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2107.0	0.053	ug/L	0.1517	0.053	ug/L	0.1517	285.31%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	88.5	-1.163	ug/L	0.5253	-1.163	ug/L	0.5253	45.19%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3237.1	459.2	ug/L	1.59	459.2	ug/L	1.59	0.35%
QC value within limits for Tl 190.801 Recovery = 91.85%								
V 292.402	128337.1	481.9	ug/L	4.10	481.9	ug/L	4.10	0.85%
QC value within limits for V 292.402 Recovery = 96.38%								
Zn 206.200	92651.5	913.8	ug/L	9.56	913.8	ug/L	9.56	1.05%
QC value within limits for Zn 206.200 Recovery = 91.38%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 10:22:52 AM
Data Type: Reprocessed on 12/06/12 10:12:30 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	64611.6	497.4	ug/L	6.13	497.4	ug/L	6.13	1.23%
QC value within limits for Ag 338.289 Recovery = 99.48%								
Al 308.215	34352.1	20590	ug/L	165.6	20590	ug/L	165.6	0.80%
QC value within limits for Al 308.215 Recovery = 102.97%								
As 188.979	5775.3	1035	ug/L	8.9	1035	ug/L	8.9	0.86%
QC value within limits for As 188.979 Recovery = 103.55%								
B	4192.0	1089	ug/L	11.7	1089	ug/L	11.7	1.07%
QC value within limits for B Recovery = 108.89%								
Ba 233.527	177032.9	1016	ug/L	9.8	1016	ug/L	9.8	0.97%
QC value within limits for Ba 233.527 Recovery = 101.64%								
Be 313.107	6967074.4	1042	ug/L	7.3	1042	ug/L	7.3	0.70%
QC value within limits for Be 313.107 Recovery = 104.21%								
Ca 315.887	635336.1	51340	ug/L	251.0	51340	ug/L	251.0	0.49%
QC value within limits for Ca 315.887 Recovery = 102.68%								
Cd 214.440	421274.0	1048	ug/L	10.2	1048	ug/L	10.2	0.98%
QC value within limits for Cd 214.440 Recovery = 104.81%								
Co 228.616	75402.9	1032	ug/L	10.4	1032	ug/L	10.4	1.01%
QC value within limits for Co 228.616 Recovery = 103.18%								
Cr 267.716	157760.8	1031	ug/L	10.7	1031	ug/L	10.7	1.04%
QC value within limits for Cr 267.716 Recovery = 103.10%								
Cu 327.393	124760.9	986.7	ug/L	16.26	986.7	ug/L	16.26	1.65%
QC value within limits for Cu 327.393 Recovery = 98.67%								
Fe 273.955	567043.1	20560	ug/L	202.1	20560	ug/L	202.1	0.98%
QC value within limits for Fe 273.955 Recovery = 102.82%								
K 766.490	43613.2	20250	ug/L	243.1	20250	ug/L	243.1	1.20%
QC value within limits for K 766.490 Recovery = 101.23%								
Mg 285.213	993368.3	51570	ug/L	224.0	51570	ug/L	224.0	0.43%
QC value within limits for Mg 285.213 Recovery = 103.13%								
Mn 257.610	55659.6	1042	ug/L	11.8	1042	ug/L	11.8	1.14%
QC value within limits for Mn 257.610 Recovery = 104.22%								
Mo 202.031	48449.7	1059	ug/L	10.1	1059	ug/L	10.1	0.96%
QC value within limits for Mo 202.031 Recovery = 105.86%								
Na 589.592	321804.6	25230	ug/L	105.5	25230	ug/L	105.5	0.42%
QC value within limits for Na 589.592 Recovery = 100.93%								
Ni 231.604	72491.6	1040	ug/L	11.4	1040	ug/L	11.4	1.10%
QC value within limits for Ni 231.604 Recovery = 103.99%								
P 213.617	40775.1	5334	ug/L	31.0	5334	ug/L	31.0	0.58%
QC value within limits for P 213.617 Recovery = 106.67%								
Pb 220.353	17427.6	1063	ug/L	7.0	1063	ug/L	7.0	0.66%
QC value within limits for Pb 220.353 Recovery = 106.28%								
Sb 206.836	6618.8	1026	ug/L	9.1	1026	ug/L	9.1	0.89%
QC value within limits for Sb 206.836 Recovery = 102.64%								
Se 196.026	6092.8	1059	ug/L	2.8	1059	ug/L	2.8	0.26%
QC value within limits for Se 196.026 Recovery = 105.92%								
Sn 189.927	8939.0	1043	ug/L	7.2	1043	ug/L	7.2	0.69%
QC value within limits for Sn 189.927 Recovery = 104.33%								
Sr 421.552	967145.0	1008	ug/L	6.0	1008	ug/L	6.0	0.60%
QC value within limits for Sr 421.552 Recovery = 100.81%								
Ti 337.279	42402.1	1025	ug/L	10.1	1025	ug/L	10.1	0.99%
QC value within limits for Ti 337.279 Recovery = 102.51%								
Tl 190.801	7407.0	1051	ug/L	14.2	1051	ug/L	14.2	1.35%
QC value within limits for Tl 190.801 Recovery = 105.08%								
V 292.402	254597.0	1037	ug/L	9.4	1037	ug/L	9.4	0.91%
QC value within limits for V 292.402 Recovery = 103.69%								
Zn 206.200	106409.4	1064	ug/L	11.6	1064	ug/L	11.6	1.09%
QC value within limits for Zn 206.200 Recovery = 106.43%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 10:26:35 AM
Data Type: Reprocessed on 12/06/12 10:12:31 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	38.7	0.298	ug/L	1.5262	0.298	ug/L	1.5262	511.98%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	32.9	19.70	ug/L	1.099	19.70	ug/L	1.099	5.58%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	3.7	0.660	ug/L	1.3233	0.660	ug/L	1.3233	200.65%
QC value within limits for As 188.979 Recovery = Not calculated								
B	34.7	8.511	ug/L	1.3629	8.511	ug/L	1.3629	16.01%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	23.9	0.137	ug/L	0.0349	0.137	ug/L	0.0349	25.47%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-182.0	-0.027	ug/L	0.0246	-0.027	ug/L	0.0246	90.27%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	83.6	6.758	ug/L	1.3570	6.758	ug/L	1.3570	20.08%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	41.1	0.103	ug/L	0.0224	0.103	ug/L	0.0224	21.84%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	10.6	0.148	ug/L	0.3560	0.148	ug/L	0.3560	240.88%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-2.4	-0.015	ug/L	0.0728	-0.015	ug/L	0.0728	474.88%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	19.3	0.152	ug/L	1.5648	0.152	ug/L	1.5648	>999.9%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	66.4	2.415	ug/L	0.5099	2.415	ug/L	0.5099	21.12%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-31.3	-14.53	ug/L	63.265	-14.53	ug/L	63.265	435.50%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	64.6	3.355	ug/L	1.0394	3.355	ug/L	1.0394	30.98%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	1.2	0.023	ug/L	0.1426	0.023	ug/L	0.1426	615.99%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	23.6	0.514	ug/L	0.1563	0.514	ug/L	0.1563	30.39%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-11.6	-0.911	ug/L	6.1586	-0.911	ug/L	6.1586	676.33%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-26.2	-0.377	ug/L	0.1057	-0.377	ug/L	0.1057	28.05%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	1.3	0.172	ug/L	0.5765	0.172	ug/L	0.5765	335.71%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	23.6	1.440	ug/L	0.8979	1.440	ug/L	0.8979	62.37%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	8.3	1.292	ug/L	0.6071	1.292	ug/L	0.6071	47.00%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	0.8	0.146	ug/L	2.6049	0.146	ug/L	2.6049	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	15.4	1.802	ug/L	1.1195	1.802	ug/L	1.1195	62.12%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	194.8	0.203	ug/L	0.1564	0.203	ug/L	0.1564	77.01%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-13.4	-0.325	ug/L	0.0572	-0.325	ug/L	0.0572	17.61%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2.2	0.306	ug/L	0.5000	0.306	ug/L	0.5000	163.37%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	4.5	0.025	ug/L	0.4778	0.025	ug/L	0.4778	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-65.4	-0.648	ug/L	0.1116	-0.648	ug/L	0.1116	17.22%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 57
Sample ID: CCV1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 2:03:31 PM
Data Type: Reprocessed on 12/06/12 10:13:18 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	63646.9	490.0	ug/L	3.70	490.0	ug/L	3.70	0.75%
QC value within limits for Ag 338.289 Recovery = 98.00%								
Al 308.215	34860.9	20900	ug/L	270.1	20900	ug/L	270.1	1.29%
QC value within limits for Al 308.215 Recovery = 104.49%								
As 188.979	5626.9	1009	ug/L	5.0	1009	ug/L	5.0	0.49%
QC value within limits for As 188.979 Recovery = 100.89%								
B	4154.7	1080	ug/L	16.5	1080	ug/L	16.5	1.53%
QC value within limits for B Recovery = 107.96%								
Ba 233.527	177035.8	1016	ug/L	6.6	1016	ug/L	6.6	0.65%
QC value within limits for Ba 233.527 Recovery = 101.64%								
Be 313.107	6885335.8	1030	ug/L	8.3	1030	ug/L	8.3	0.80%
QC value within limits for Be 313.107 Recovery = 102.98%								
Ca 315.887	654581.3	52900	ug/L	618.3	52900	ug/L	618.3	1.17%
QC value within limits for Ca 315.887 Recovery = 105.79%								
Cd 214.440	417884.1	1040	ug/L	6.8	1040	ug/L	6.8	0.65%
QC value within limits for Cd 214.440 Recovery = 103.97%								
Co 228.616	75298.7	1030	ug/L	6.4	1030	ug/L	6.4	0.62%
QC value within limits for Co 228.616 Recovery = 103.03%								
Cr 267.716	157332.4	1028	ug/L	5.8	1028	ug/L	5.8	0.57%
QC value within limits for Cr 267.716 Recovery = 102.82%								
Cu 327.393	123204.9	974.4	ug/L	10.73	974.4	ug/L	10.73	1.10%
QC value within limits for Cu 327.393 Recovery = 97.44%								
Fe 273.955	566468.5	20540	ug/L	130.3	20540	ug/L	130.3	0.63%
QC value within limits for Fe 273.955 Recovery = 102.72%								
K 766.490	44322.7	20570	ug/L	304.8	20570	ug/L	304.8	1.48%
QC value within limits for K 766.490 Recovery = 102.87%								
Mg 285.213	1018504.8	52870	ug/L	471.7	52870	ug/L	471.7	0.89%
QC value within limits for Mg 285.213 Recovery = 105.74%								
Mn 257.610	56248.8	1053	ug/L	17.7	1053	ug/L	17.7	1.68%
QC value within limits for Mn 257.610 Recovery = 105.32%								
Mo 202.031	47668.4	1042	ug/L	6.5	1042	ug/L	6.5	0.63%
QC value within limits for Mo 202.031 Recovery = 104.15%								
Na 589.592	324715.9	25460	ug/L	247.0	25460	ug/L	247.0	0.97%
QC value within limits for Na 589.592 Recovery = 101.85%								
Ni 231.604	71878.7	1031	ug/L	6.7	1031	ug/L	6.7	0.65%
QC value within limits for Ni 231.604 Recovery = 103.11%								
P 213.617	39590.0	5179	ug/L	40.2	5179	ug/L	40.2	0.78%
QC value within limits for P 213.617 Recovery = 103.57%								
Pb 220.353	17010.2	1037	ug/L	12.6	1037	ug/L	12.6	1.21%
QC value within limits for Pb 220.353 Recovery = 103.73%								
Sb 206.836	6539.4	1014	ug/L	15.1	1014	ug/L	15.1	1.49%
QC value within limits for Sb 206.836 Recovery = 101.41%								
Se 196.026	5932.3	1031	ug/L	9.2	1031	ug/L	9.2	0.89%
QC value within limits for Se 196.026 Recovery = 103.14%								
Sn 189.927	8962.3	1046	ug/L	16.0	1046	ug/L	16.0	1.52%
QC value within limits for Sn 189.927 Recovery = 104.60%								
Sr 421.552	990521.5	1032	ug/L	9.9	1032	ug/L	9.9	0.96%
QC value within limits for Sr 421.552 Recovery = 103.25%								
Ti 337.279	43369.2	1049	ug/L	15.6	1049	ug/L	15.6	1.49%
QC value within limits for Ti 337.279 Recovery = 104.85%								
Tl 190.801	7173.6	1018	ug/L	9.0	1018	ug/L	9.0	0.88%
QC value within limits for Tl 190.801 Recovery = 101.77%								
V 292.402	255198.4	1039	ug/L	6.4	1039	ug/L	6.4	0.62%
QC value within limits for V 292.402 Recovery = 103.90%								
Zn 206.200	105436.0	1055	ug/L	7.7	1055	ug/L	7.7	0.73%
QC value within limits for Zn 206.200 Recovery = 105.46%								

All analyte(s) passed QC.

Sequence No.: 58
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 2:07:14 PM
Data Type: Reprocessed on 12/06/12 10:13:19 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	39.4	0.304	ug/L	0.3595	0.304	ug/L	0.3595	118.37%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	13.4	8.026	ug/L	0.5891	8.026	ug/L	0.5891	7.34%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.2	1.288	ug/L	0.1786	1.288	ug/L	0.1786	13.86%
QC value within limits for As 188.979 Recovery = Not calculated								
B	25.6	6.269	ug/L	4.4722	6.269	ug/L	4.4722	71.33%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	8.5	0.048	ug/L	0.0932	0.048	ug/L	0.0932	195.94%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-396.7	-0.059	ug/L	0.0163	-0.059	ug/L	0.0163	27.55%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	64.0	5.168	ug/L	1.4265	5.168	ug/L	1.4265	27.60%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	4.5	0.012	ug/L	0.0260	0.012	ug/L	0.0260	222.63%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	15.2	0.211	ug/L	0.1224	0.211	ug/L	0.1224	58.03%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-20.2	-0.132	ug/L	0.1634	-0.132	ug/L	0.1634	123.79%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	163.9	1.296	ug/L	1.4512	1.296	ug/L	1.4512	111.95%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	50.3	1.838	ug/L	0.9338	1.838	ug/L	0.9338	50.81%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	56.8	26.36	ug/L	57.722	26.36	ug/L	57.722	218.95%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	36.9	1.914	ug/L	0.2550	1.914	ug/L	0.2550	13.32%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-1.1	-0.020	ug/L	0.1791	-0.020	ug/L	0.1791	893.93%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	33.6	0.733	ug/L	0.2712	0.733	ug/L	0.2712	37.01%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-145.3	-11.42	ug/L	9.986	-11.42	ug/L	9.986	87.46%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-27.2	-0.392	ug/L	0.1401	-0.392	ug/L	0.1401	35.71%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-8.2	-1.071	ug/L	1.6421	-1.071	ug/L	1.6421	153.29%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	12.4	0.754	ug/L	0.9358	0.754	ug/L	0.9358	124.05%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	4.3	0.660	ug/L	0.6797	0.660	ug/L	0.6797	102.98%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-0.1	-0.011	ug/L	0.9415	-0.011	ug/L	0.9415	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	5.5	0.641	ug/L	0.7443	0.641	ug/L	0.7443	116.17%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	380.2	0.396	ug/L	0.0785	0.396	ug/L	0.0785	19.79%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-11.3	-0.274	ug/L	0.4417	-0.274	ug/L	0.4417	160.94%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.9	1.256	ug/L	0.5162	1.256	ug/L	0.5162	41.09%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-22.9	-0.083	ug/L	0.8423	-0.083	ug/L	0.8423	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-109.2	-1.083	ug/L	0.0881	-1.083	ug/L	0.0881	8.14%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 68
Sample ID: CCV2 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 12/05/12 3:23:33 PM
Data Type: Reprocessed on 12/06/12 10:13:29 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	49907.2	384.2	ug/L	3.08	384.2	ug/L	3.08	0.80%
QC value within limits for Ag 338.289 Recovery = 102.46%								
Al 308.215	27614.1	16550	ug/L	109.9	16550	ug/L	109.9	0.66%
QC value within limits for Al 308.215 Recovery = 110.36%								
As 188.979	4403.6	789.6	ug/L	2.89	789.6	ug/L	2.89	0.37%
QC value within limits for As 188.979 Recovery = 105.27%								
B	3241.6	841.4	ug/L	8.14	841.4	ug/L	8.14	0.97%
QC value greater than the upper limit for B Recovery = 112.19%								
Ba 233.527	136166.3	781.8	ug/L	4.40	781.8	ug/L	4.40	0.56%
QC value within limits for Ba 233.527 Recovery = 104.24%								
Be 313.107	5355865.3	801.1	ug/L	1.80	801.1	ug/L	1.80	0.22%
QC value within limits for Be 313.107 Recovery = 106.81%								
Ca 315.887	525429.4	42460	ug/L	482.2	42460	ug/L	482.2	1.14%
QC value greater than the upper limit for Ca 315.887 Recovery = 113.23%								
Cd 214.440	323283.8	804.3	ug/L	5.75	804.3	ug/L	5.75	0.72%
QC value within limits for Cd 214.440 Recovery = 107.24%								
Co 228.616	58251.2	796.9	ug/L	6.49	796.9	ug/L	6.49	0.81%
QC value within limits for Co 228.616 Recovery = 106.25%								
Cr 267.716	120502.7	787.4	ug/L	5.05	787.4	ug/L	5.05	0.64%
QC value within limits for Cr 267.716 Recovery = 104.99%								
Cu 327.393	96635.1	764.3	ug/L	5.26	764.3	ug/L	5.26	0.69%
QC value within limits for Cu 327.393 Recovery = 101.91%								
Fe 273.955	435527.5	15800	ug/L	101.7	15800	ug/L	101.7	0.64%
QC value within limits for Fe 273.955 Recovery = 105.30%								
K 766.490	34725.1	16120	ug/L	223.3	16120	ug/L	223.3	1.39%
QC value within limits for K 766.490 Recovery = 107.46%								
Mg 285.213	810383.6	42070	ug/L	399.5	42070	ug/L	399.5	0.95%
QC value greater than the upper limit for Mg 285.213 Recovery = 112.18%								
Mn 257.610	44266.7	828.8	ug/L	3.46	828.8	ug/L	3.46	0.42%
QC value greater than the upper limit for Mn 257.610 Recovery = 110.50%								
Mo 202.031	35951.2	785.5	ug/L	4.03	785.5	ug/L	4.03	0.51%
QC value within limits for Mo 202.031 Recovery = 104.74%								
Na 589.592	256184.3	20090	ug/L	210.1	20090	ug/L	210.1	1.05%
QC value within limits for Na 589.592 Recovery = 107.14%								
Ni 231.604	55559.4	797.0	ug/L	4.74	797.0	ug/L	4.74	0.59%
QC value within limits for Ni 231.604 Recovery = 106.27%								
P 213.617	30641.4	4008	ug/L	48.1	4008	ug/L	48.1	1.20%
QC value within limits for P 213.617 Recovery = 106.88%								
Pb 220.353	13198.5	804.9	ug/L	1.58	804.9	ug/L	1.58	0.20%
QC value within limits for Pb 220.353 Recovery = 107.31%								
Sb 206.836	5197.2	805.9	ug/L	1.07	805.9	ug/L	1.07	0.13%
QC value within limits for Sb 206.836 Recovery = 107.46%								
Se 196.026	4628.2	804.4	ug/L	1.79	804.4	ug/L	1.79	0.22%
QC value within limits for Se 196.026 Recovery = 107.26%								
Sn 189.927	6734.6	786.0	ug/L	4.24	786.0	ug/L	4.24	0.54%
QC value within limits for Sn 189.927 Recovery = 104.80%								
Sr 421.552	791082.4	824.6	ug/L	6.75	824.6	ug/L	6.75	0.82%
QC value within limits for Sr 421.552 Recovery = 109.95%								
Ti 337.279	35144.1	849.7	ug/L	6.17	849.7	ug/L	6.17	0.73%
QC value greater than the upper limit for Ti 337.279 Recovery = 113.29%								
Tl 190.801	5664.6	803.6	ug/L	0.91	803.6	ug/L	0.91	0.11%
QC value within limits for Tl 190.801 Recovery = 107.15%								
V 292.402	195315.9	795.0	ug/L	4.80	795.0	ug/L	4.80	0.60%
QC value within limits for V 292.402 Recovery = 106.00%								
Zn 206.200	81083.5	811.0	ug/L	5.13	811.0	ug/L	5.13	0.63%
QC value within limits for Zn 206.200 Recovery = 108.14%								

QC Failed. Continue with analysis.

Sequence No.: 69
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 12/05/12 3:29:31 PM
Data Type: Reprocessed on 12/06/12 10:13:30 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	62.2	0.479	ug/L	1.0880	0.479	ug/L	1.0880	227.23%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	27.9	16.70	ug/L	10.779	16.70	ug/L	10.779	64.56%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.1	0.742	ug/L	0.7184	0.742	ug/L	0.7184	96.81%
QC value within limits for As 188.979 Recovery = Not calculated								
B	49.9	12.20	ug/L	2.788	12.20	ug/L	2.788	22.85%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-5.8	-0.032	ug/L	0.0387	-0.032	ug/L	0.0387	119.24%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	63.0	0.009	ug/L	0.0140	0.009	ug/L	0.0140	148.20%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	1133.4	91.61	ug/L	10.182	91.61	ug/L	10.182	11.12%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	27.1	0.068	ug/L	0.0045	0.068	ug/L	0.0045	6.61%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-22.8	-0.310	ug/L	0.0801	-0.310	ug/L	0.0801	25.79%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-64.6	-0.422	ug/L	0.1703	-0.422	ug/L	0.1703	40.37%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	173.2	1.370	ug/L	0.6923	1.370	ug/L	0.6923	50.53%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	-62.3	-2.296	ug/L	0.5395	-2.296	ug/L	0.5395	23.50%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	122.4	56.85	ug/L	69.716	56.85	ug/L	69.716	122.62%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	76.2	3.950	ug/L	0.4022	3.950	ug/L	0.4022	10.18%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	2.0	0.037	ug/L	0.0844	0.037	ug/L	0.0844	228.85%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	25.2	0.549	ug/L	0.0433	0.549	ug/L	0.0433	7.89%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	453.5	35.56	ug/L	7.229	35.56	ug/L	7.229	20.33%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	7.3	0.105	ug/L	0.1912	0.105	ug/L	0.1912	182.73%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	241.9	31.65	ug/L	2.975	31.65	ug/L	2.975	9.40%
QC value greater than the upper limit for P 213.617 Recovery = Not calculated								
Pb 220.353	18.2	1.108	ug/L	0.3606	1.108	ug/L	0.3606	32.55%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	9.5	1.467	ug/L	0.3285	1.467	ug/L	0.3285	22.40%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	2.3	0.398	ug/L	0.9907	0.398	ug/L	0.9907	249.03%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	2.8	0.327	ug/L	0.7159	0.327	ug/L	0.7159	219.03%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	245.9	0.256	ug/L	0.1004	0.256	ug/L	0.1004	39.22%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-4.8	-0.116	ug/L	0.2166	-0.116	ug/L	0.2166	186.87%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	7.0	0.997	ug/L	0.1680	0.997	ug/L	0.1680	16.85%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	79.8	0.323	ug/L	0.0453	0.323	ug/L	0.0453	14.00%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-111.5	-1.107	ug/L	0.0982	-1.107	ug/L	0.0982	8.87%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 79
Sample ID: CCV1 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/05/12 4:25:13 PM
Data Type: Reprocessed on 12/06/12 10:13:43 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65271.4	502.5	ug/L	2.68	502.5	ug/L	2.68	0.53%
QC value within limits for Ag 338.289 Recovery = 100.50%								
Al 308.215	35971.7	21560	ug/L	92.0	21560	ug/L	92.0	0.43%
QC value within limits for Al 308.215 Recovery = 107.82%								
As 188.979	5586.8	1002	ug/L	12.0	1002	ug/L	12.0	1.20%
QC value within limits for As 188.979 Recovery = 100.17%								
B	4172.9	1083	ug/L	17.4	1083	ug/L	17.4	1.61%
QC value within limits for B Recovery = 108.30%								
Ba 233.527	175883.9	1010	ug/L	1.9	1010	ug/L	1.9	0.19%
QC value within limits for Ba 233.527 Recovery = 100.99%								
Be 313.107	6819538.9	1020	ug/L	8.5	1020	ug/L	8.5	0.83%
QC value within limits for Be 313.107 Recovery = 102.00%								
Ca 315.887	674439.9	54500	ug/L	411.8	54500	ug/L	411.8	0.76%
QC value within limits for Ca 315.887 Recovery = 109.00%								
Cd 214.440	408126.9	1015	ug/L	1.1	1015	ug/L	1.1	0.11%
QC value within limits for Cd 214.440 Recovery = 101.54%								
Co 228.616	74550.9	1020	ug/L	2.0	1020	ug/L	2.0	0.19%
QC value within limits for Co 228.616 Recovery = 101.99%								
Cr 267.716	155428.5	1016	ug/L	0.7	1016	ug/L	0.7	0.07%
QC value within limits for Cr 267.716 Recovery = 101.57%								
Cu 327.393	126374.1	999.5	ug/L	1.93	999.5	ug/L	1.93	0.19%
QC value within limits for Cu 327.393 Recovery = 99.95%								
Fe 273.955	559109.1	20280	ug/L	24.4	20280	ug/L	24.4	0.12%
QC value within limits for Fe 273.955 Recovery = 101.38%								
K 766.490	46128.9	21410	ug/L	57.2	21410	ug/L	57.2	0.27%
QC value within limits for K 766.490 Recovery = 107.07%								
Mg 285.213	1047315.4	54370	ug/L	369.5	54370	ug/L	369.5	0.68%
QC value within limits for Mg 285.213 Recovery = 108.73%								
Mn 257.610	57087.4	1069	ug/L	2.2	1069	ug/L	2.2	0.20%
QC value within limits for Mn 257.610 Recovery = 106.88%								
Mo 202.031	47817.5	1045	ug/L	14.7	1045	ug/L	14.7	1.40%
QC value within limits for Mo 202.031 Recovery = 104.47%								
Na 589.592	331182.2	25970	ug/L	216.1	25970	ug/L	216.1	0.83%
QC value within limits for Na 589.592 Recovery = 103.87%								
Ni 231.604	72262.3	1037	ug/L	16.0	1037	ug/L	16.0	1.55%
QC value within limits for Ni 231.604 Recovery = 103.66%								
P 213.617	39668.2	5189	ug/L	69.2	5189	ug/L	69.2	1.33%
QC value within limits for P 213.617 Recovery = 103.78%								
Pb 220.353	16855.4	1028	ug/L	15.1	1028	ug/L	15.1	1.47%
QC value within limits for Pb 220.353 Recovery = 102.79%								
Sb 206.836	6647.3	1031	ug/L	16.6	1031	ug/L	16.6	1.61%
QC value within limits for Sb 206.836 Recovery = 103.08%								
Se 196.026	5839.3	1015	ug/L	12.7	1015	ug/L	12.7	1.25%
QC value within limits for Se 196.026 Recovery = 101.51%								
Sn 189.927	8662.1	1011	ug/L	20.9	1011	ug/L	20.9	2.07%
QC value within limits for Sn 189.927 Recovery = 101.10%								
Sr 421.552	1035102.1	1079	ug/L	8.9	1079	ug/L	8.9	0.83%
QC value within limits for Sr 421.552 Recovery = 107.90%								
Ti 337.279	46309.1	1120	ug/L	2.7	1120	ug/L	2.7	0.24%
QC value greater than the upper limit for Ti 337.279 Recovery = 111.96%								
Tl 190.801	7219.7	1024	ug/L	15.0	1024	ug/L	15.0	1.47%
QC value within limits for Tl 190.801 Recovery = 102.42%								
V 292.402	254014.1	1034	ug/L	1.6	1034	ug/L	1.6	0.15%
QC value within limits for V 292.402 Recovery = 103.42%								
Zn 206.200	102081.1	1021	ug/L	2.4	1021	ug/L	2.4	0.24%
QC value within limits for Zn 206.200 Recovery = 102.13%								

QC Failed. Continue with analysis.

Sequence No.: 80
Sample ID: CCB 121205EA I:PB O:EA
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/05/12 4:37:04 PM
Data Type: Reprocessed on 12/06/12 10:13:44 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121205EA I:PB O:EA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-144.7	-1.114	ug/L	0.8602	-1.114	ug/L	0.8602	77.19%
QC value less than the lower limit for Ag 338.289 Recovery = Not calculated								
Al 308.215	14.6	8.780	ug/L	7.6502	8.780	ug/L	7.6502	87.13%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	3.2	0.572	ug/L	0.7633	0.572	ug/L	0.7633	133.44%
QC value within limits for As 188.979 Recovery = Not calculated								
B	32.0	7.826	ug/L	2.2900	7.826	ug/L	2.2900	29.26%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-6.2	-0.034	ug/L	0.0379	-0.034	ug/L	0.0379	109.95%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-119.8	-0.018	ug/L	0.0287	-0.018	ug/L	0.0287	159.91%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	472.6	38.19	ug/L	10.601	38.19	ug/L	10.601	27.76%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	17.7	0.044	ug/L	0.0508	0.044	ug/L	0.0508	114.88%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-5.6	-0.077	ug/L	0.1084	-0.077	ug/L	0.1084	140.05%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-81.2	-0.530	ug/L	0.0502	-0.530	ug/L	0.0502	9.47%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	213.4	1.688	ug/L	0.9496	1.688	ug/L	0.9496	56.25%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	-83.5	-3.057	ug/L	0.8877	-3.057	ug/L	0.8877	29.04%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	309.1	143.6	ug/L	62.46	143.6	ug/L	62.46	43.49%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	47.3	2.446	ug/L	0.2446	2.446	ug/L	0.2446	10.00%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	13.0	0.243	ug/L	0.1483	0.243	ug/L	0.1483	60.97%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	4.5	0.097	ug/L	0.3046	0.097	ug/L	0.3046	314.98%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	412.2	32.29	ug/L	11.846	32.29	ug/L	11.846	36.69%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-19.7	-0.283	ug/L	0.1420	-0.283	ug/L	0.1420	50.13%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	138.2	18.08	ug/L	3.681	18.08	ug/L	3.681	20.36%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-2.6	-0.161	ug/L	0.3351	-0.161	ug/L	0.3351	208.16%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	12.2	1.892	ug/L	0.5686	1.892	ug/L	0.5686	30.06%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	6.9	1.190	ug/L	2.1169	1.190	ug/L	2.1169	177.89%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	0.7	0.080	ug/L	1.0544	0.080	ug/L	1.0544	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	251.0	0.262	ug/L	0.1311	0.262	ug/L	0.1311	50.06%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	10.0	0.240	ug/L	0.2631	0.240	ug/L	0.2631	109.54%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.0	1.131	ug/L	0.5731	1.131	ug/L	0.5731	50.65%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	43.7	0.172	ug/L	0.6800	0.172	ug/L	0.6800	395.90%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-127.3	-1.264	ug/L	0.0712	-1.264	ug/L	0.0712	5.64%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/05/12	12/05/12	#6010B-121205A-AY72370

Metals SC-Blank-REG MDLs
Printed: 12/07/12 9:18:19 AM

Sequence No.: 59
Sample ID: 121205A-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 134
Date Collected: 12/05/12 2:12:11 PM
Data Type: Reprocessed on 12/06/12 10:13:20 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121205A-3050-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-72.2	-0.556	ug/L	0.5072	-0.022	mg/kg	0.0203	91.25%
Al 308.215	12.2	7.256	ug/L	3.5931	0.290	mg/kg	0.1437	49.52%
As 188.979	4.6	0.822	ug/L	1.2092	0.033	mg/kg	0.0484	147.14%
B	27.8	6.798	ug/L	2.9508	0.272	mg/kg	0.1180	43.41%
Ba 233.527	34.0	0.196	ug/L	0.0731	0.008	mg/kg	0.0029	37.27%
Be 313.107	-458.6	-0.069	ug/L	0.0119	-0.003	mg/kg	0.0005	17.37%
Ca 315.887	496.9	40.15	ug/L	0.953	1.606	mg/kg	0.0381	2.37%
Cd 214.440	113.4	0.284	ug/L	0.0570	0.011	mg/kg	0.0023	20.11%
Co 228.616	1.4	0.023	ug/L	0.3534	0.001	mg/kg	0.0141	>999.9%
Cr 267.716	99.2	0.647	ug/L	0.1586	0.026	mg/kg	0.0063	24.51%
Cu 327.393	178.0	1.408	ug/L	1.0689	0.056	mg/kg	0.0428	75.91%
Fe 273.955	10.5	0.387	ug/L	0.8541	0.015	mg/kg	0.0342	220.67%
K 766.490	78.0	36.23	ug/L	57.886	1.449	mg/kg	2.3154	159.77%
Mg 285.213	42.8	2.219	ug/L	0.6536	0.089	mg/kg	0.0261	29.45%
Mn 257.610	21.1	0.395	ug/L	0.1938	0.016	mg/kg	0.0078	49.09%
Mo 202.031	67.0	1.461	ug/L	0.2579	0.058	mg/kg	0.0103	17.65%
Na 589.592	231.4	18.14	ug/L	1.451	0.725	mg/kg	0.0580	8.00%
Ni 231.604	-91.7	-1.318	ug/L	0.1020	-0.053	mg/kg	0.0041	7.74%
P 213.617	84.5	11.06	ug/L	1.107	0.442	mg/kg	0.0443	10.01%
Pb 220.353	-28.2	-1.718	ug/L	0.1411	-0.069	mg/kg	0.0056	8.21%
Sb 206.836	-2.8	-0.427	ug/L	0.7139	-0.017	mg/kg	0.0286	167.33%
Se 196.026	3.4	0.578	ug/L	2.7728	0.023	mg/kg	0.1109	479.50%
Sn 189.927	-5.5	-0.644	ug/L	0.3251	-0.026	mg/kg	0.0130	50.51%
Sr 421.552	260.2	0.271	ug/L	0.1835	0.011	mg/kg	0.0073	67.69%
Ti 337.279	1.5	0.036	ug/L	0.5071	0.001	mg/kg	0.0203	>999.9%
Tl 190.801	-4.2	-0.594	ug/L	0.6477	-0.024	mg/kg	0.0259	108.95%
V 292.402	-33.0	-0.105	ug/L	0.1573	-0.004	mg/kg	0.0063	149.42%
Zn 206.200	106.3	1.061	ug/L	0.1474	0.042	mg/kg	0.0059	13.89%

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.3	103	80-120	12/05/12	12/05/12	#6010B-121205A-AY72370

Comments: _____

Sequence No.: 60
Sample ID: 121205A-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 135
Date Collected: 12/05/12 2:16:36 PM
Data Type: Reprocessed on 12/06/12 10:13:21 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121205A-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	12819.8	98.70	ug/L	2.630	3.948	mg/kg	0.1052	2.67%
Al 308.215	3336.1	2001	ug/L	11.5	80.06	mg/kg	0.459	0.57%
As 188.979	1333.0	239.0	ug/L	1.10	9.560	mg/kg	0.0440	0.46%
B	1020.5	251.6	ug/L	3.90	10.07	mg/kg	0.156	1.55%
Ba 233.527	42056.3	243.7	ug/L	4.04	9.746	mg/kg	0.1617	1.66%
Be 313.107	329721.9	49.32	ug/L	0.827	1.973	mg/kg	0.0331	1.68%
Ca 315.887	315129.0	25470	ug/L	156.6	1019	mg/kg	6.3	0.61%
Cd 214.440	20283.7	50.59	ug/L	0.213	2.024	mg/kg	0.0085	0.42%
Co 228.616	18810.4	257.4	ug/L	1.02	10.30	mg/kg	0.041	0.40%
Cr 267.716	39782.2	259.8	ug/L	3.82	10.39	mg/kg	0.153	1.47%
Cu 327.393	29894.5	236.4	ug/L	2.83	9.458	mg/kg	0.1130	1.19%
Fe 273.955	28097.3	1001	ug/L	13.2	40.04	mg/kg	0.528	1.32%
K 766.490	10385.1	4823	ug/L	75.0	192.9	mg/kg	3.00	1.56%
Mg 285.213	482977.3	25060	ug/L	127.5	1002	mg/kg	5.1	0.51%
Mn 257.610	14090.2	263.0	ug/L	0.77	10.52	mg/kg	0.031	0.29%
Mo 202.031	12170.5	265.6	ug/L	1.18	10.62	mg/kg	0.047	0.45%
Na 589.592	305873.3	24000	ug/L	113.6	959.9	mg/kg	4.54	0.47%
Ni 231.604	18052.7	258.9	ug/L	1.05	10.36	mg/kg	0.042	0.40%
P 213.617	14766.4	1932	ug/L	7.7	77.26	mg/kg	0.310	0.40%
Pb 220.353	4214.2	257.0	ug/L	1.02	10.28	mg/kg	0.041	0.40%
Sb 206.836	1541.6	239.1	ug/L	1.19	9.562	mg/kg	0.0476	0.50%
Se 196.026	1335.3	229.6	ug/L	0.88	9.183	mg/kg	0.0352	0.38%
Sn 189.927	2311.2	269.8	ug/L	1.33	10.79	mg/kg	0.053	0.49%
Sr 421.552	234987.5	244.9	ug/L	1.06	9.795	mg/kg	0.0425	0.43%
Ti 337.279	10888.2	263.1	ug/L	0.94	10.52	mg/kg	0.038	0.36%
Tl 190.801	1731.9	245.7	ug/L	1.42	9.828	mg/kg	0.0567	0.58%
V 292.402	64120.9	262.1	ug/L	3.64	10.48	mg/kg	0.146	1.39%
Zn 206.200	51385.7	512.2	ug/L	8.56	20.49	mg/kg	0.342	1.67%

Metals Standards Log Book # 36

050

BC 12/4/12
6020/6020A
(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A
Today's Date 12/04/12
Expires 12/11/12
Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL DI Water
Lot #L12065
20 mL HCL / 2000mL DI Water
Lot #51358
Expires 12/11/12

Internal Standard Mix Prep 11/29/2012

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1 0% HCL 12/04/12

Standard 3 12/11/12

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	ABS STDS	012512-30926
25 uL	CCV-B	ABS STDS	021312-30928
25 uL	CCV-C	ABS STDS	012512-30927

Prepared in 100 mL of 1% HNO3/1 0% HCL 12/04/12

Intermediate-Sb 12/11/12
100 uL of Sb STD (CPI 12A011-30298) in 10 mL of 1% HNO3/1 0% HCL
ICV-Sb 12/11/12
100 uL of Intermediate-Sb in 10 mL of 1% HNO3/1 0% HCL

BC 12/4/12

Standard 2 12/11/12

Amount	STD	
500 uL	Standard 4	12/04/12

Prepared in 50 mL of 1% HNO3/1 0% HCL 12/04/12

Standard 1 12/11/12

Amount	STD	
50 uL	Standard 4	12/04/12

Prepared in 50 mL of 1% HNO3/1 0% HCL 12/04/12

ICP-MS ICV 12/11/12

Amount	STD		
50 uL	QCS ICV A	CPI	11C184-30611
50 uL	QCS ICV B	CPI	11C184-30612

Prepared in 50 mL of 1% HNO3/1 0% HCL 12/04/12

ICSA Prep: 12/11/12

1 mL	ICSA	CPI	12I082-31307

Prepared in 5 mL of 1% HNO3/1 0% HCL 12/04/12

ICSAB Prep: 12/11/12

1mL	ICSA	CPI	12I082-31307
0 025mL	INT	O2Si	1032370-30265

Prepared in 5 mL of 1% HNO3/1 0% HCL 12/04/12

ICP-LDR 12/11/12

Amount	STD		
50 uL	CCV-A	ABS STDS	012512-30926
50 uL	CCV-B	ABS STDS	021312-30928
50 uL	CCV-C	ABS STDS	012512-30927

Prepared in 10 mL of 1% HNO3/1 0% HCL 12/04/12

~~LO 12/3/12~~ (1) LO 12/4/12

LO ~~12/03/12~~
LO (1) 12/04/12

Hg WORKING STANDARD 7470A/7471/245.1

1ml X 10ug/ml Hg STOCK STD. (12/03/12LO)/200ml 1% HNO3 Lot#L12065
1ml X 10ug/ml Hg STOCK ICV (12/03/12LO)/200ml 1% HNO3 Lot#L12065
Final concentration is 50 ug/L. Expires daily

LO 12/4/12

EA 6010B-C
(A)
12-5-12

1%HNO3 / 5%HCl BLK				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	EMD	UN1789-265	10/22/12
20 mL	HNO3	JT BAKER	L10023-266	10/24/12
Prepared in 2000 ml DI Water				

STD 1 / LDL 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0 5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13
Prepared in 50 ml 1%HNO3/5%HCl				

STD 3 / HDL 6010B/6010C				
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15
Prepared in 100 ml 1%HNO3 / 5%HCl				

STD 2 / CCV1 6010B/6010C/6010C			
AMOUNT	STD	PREP DATE	EXP DATE
25mL	STD 3	Today	1 week
25mL	1%HNO3/5%HCl	Today	1 week

CCV2 6010B/6010C			
AMOUNT	STD	PREP DATE	EXP DATE
15mL	STD 3	Today	1 week
25mL	1%HNO3/5%HCl	Today	1 week

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 1%HNO3/5%HCl				

6010B/6010C ICSAB				
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 50 ml 1%HNO3/5%HCl				

6010B/6010C ICV				
0 5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0 5ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 1%HNO3/5%HCl				

EA 12-5-12

~~LO 12/5/12~~

LO 12/05/12

Hg WORKING STANDARDS 7470A/7471/245.1			
Hg WORKING STD	1ml 10ug/ml Hg STOCK STD. and 2mL HNO3 JT Baker LOT#L12065 to final vol 200mL with milipore water	12/03/12	exp: 12/31/12 final conc: 50ug/L expires daily
Hg WORKING ICV	1ml 10ug/ml Hg STOCK ICV and 2mL HNO3 JT Baker LOT#L12065 to final vol 200mL with milipore water	12/03/12	exp: 12/31/12 final conc: 50ug/L expires daily

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121205A **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 1039704-31514		
Spiked ID 2	LCSW LOT# 1039705-31515		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	12/05/12 8:10:00 AM
Witnessed By	BC	Date:	12/05/12 8:10:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	12/05/12 14:00

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121205A Blk				2.50g	100mL	12/05/12 8:10	equip: Modblock4
2	121205A LCS		1mL	1+2	2.50g	100mL	12/05/12 8:10	equip: Modblock4
3	AY71797	AY71797M01			1.93g	100mL	12/05/12 8:10	equip: Modblock4
4	AY71800	AY71800M01			1.62g	100mL	12/05/12 8:10	equip: Modblock4
5	AY71803	AY71803M01			1.42g	100mL	12/05/12 8:10	equip: Modblock4
6	AY71930	AY71930M01			2.54g	100mL	12/05/12 8:10	equip: Modblock4
7	AY71933	AY71933M01			2.18g	100mL	12/05/12 8:10	equip: Modblock4
8	AY72186	AY72186M01			2.56g	100mL	12/05/12 8:10	equip: Modblock4
9	AY72187	AY72187M01			2.54g	100mL	12/05/12 8:10	equip: Modblock4
10	AY72189	AY72189M01			2.57g	100mL	12/05/12 8:10	equip: Modblock4
11	AY72190	AY72190M01			2.44g	100mL	12/05/12 8:10	equip: Modblock4
12	AY72369	AY72369M01			2.45g	100mL	12/05/12 8:10	equip: Modblock4
13	AY72370	AY72370M01			2.50g	100mL	12/05/12 8:10	equip: Modblock4
14	AY72370 MS	AY72370M01	2mL	1+2	2.50g	100mL	12/05/12 8:10	equip: Modblock4
15	AY72370 MSD	AY72370M01	2mL	1+2	2.50g	100mL	12/05/12 8:10	equip: Modblock4

Solvent and Lot#
1:1 HNO3 11-9-12
HNO3 J.T.B. L10023 0280
H2O2 J.T.B K20J00 0254
HCL EMD Lot# 4112030 0278

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	SA
Date	12-5-12
Time	14:00
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	12/05/12 10:48:24 AM

Reviewed By: SA **Date:** 12-5-12

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	05 Dec 2012	09:41	CalBlk 121205EA I:PB O:EA		121205A6010	1.
2	05 Dec 2012	09:46	STD 1 121205EA I:PB O:EA		121205A6010	1.
3	05 Dec 2012	09:50	STD 2 121205EA I:PB O:EA		121205A6010	1.
4	05 Dec 2012	09:53	STD 3 121205EA I:PB O:EA		121205A6010	1.
5	05 Dec 2012	09:57	ICV 121205EA I:PB O:EA		121205A6010	1.
6	05 Dec 2012	10:00	ICB 121205EA I:PB O:EA		121205A6010	1.
8	05 Dec 2012	10:13	ICSA 121205EA I:PB O:EA		121205A6010	1.
9	05 Dec 2012	10:18	ICSAB 121205EA I:PB O:EA		121205A6010	1.
10	05 Dec 2012	10:22	CCV1 121205EA I:PB O:EA		121205A6010	1.
11	05 Dec 2012	10:26	CCB 121205EA I:PB O:EA		121205A6010	1.
57	05 Dec 2012	14:03	CCV1 121205EA I:PB O:EA		121205A6010	1.
58	05 Dec 2012	14:07	CCB 121205EA I:PB O:EA		121205A6010	1.
59	05 Dec 2012	14:12	121205A-3050-BLK		121205A6010	1.
60	05 Dec 2012	14:16	121205A-3050-LCS		121205A6010	1.
68	05 Dec 2012	15:23	CCV2 121205EA I:PB O:EA		121205A6010	1.
69	05 Dec 2012	15:29	CCB 121205EA I:PB O:EA		121205A6010	1.
74	05 Dec 2012	15:56	AY72370M01		121205A6010	1.
77	05 Dec 2012	16:11	AY72370M01-A		121205A6010	1.
79	05 Dec 2012	16:25	CCV1 121205EA I:PB O:EA		121205A6010	1.
80	05 Dec 2012	16:37	CCB 121205EA I:PB O:EA		121205A6010	1.

Wetlab Results

ARF: 69413

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
APPL ID: AY72370	-Client Sample ID: GT12032M		-Sample Collection Date: 11/28/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	74.1	2.0	%	12/04/12	12/05/12

Printed: 12/11/12 3:21:52 PM

% Moisture

Batch: QCG 121204-M004570

Method: CLP 4.0

Date: 12/04/12 16:34

Sample	Container	Pan (g)	Pan+Wet (g)	Pan+Dry 1 (g)	Pan+Dry 2 (g)	Moisture (%)	Comments
AY72370	m01	0.8329 12/04/12 16:34	7.5718 12/04/12 16:35	2.5775 12/05/12 08:04	2.5775 12/05/12 08:04	74.112	ay72370m01
AY72190	m01	0.8409 12/04/12 16:33	8.6813 12/04/12 16:34	2.7348 12/05/12 08:04	2.7349 12/05/12 08:04	75.843	ay72190m01
AY72187D	m01	0.8289 12/04/12 16:32	8.8571 12/04/12 16:33	2.7975 12/05/12 08:04	2.7974 12/05/12 08:04	75.480	ay72187m01
AY72187	m01	0.8392 12/04/12 16:31	8.5425 12/04/12 16:32	2.7222 12/05/12 08:03	2.7221 12/05/12 08:03	75.557	ay72187m01

Date/Time InOven@104°C	Date/Time OutOven@104°C	Date/Time InOven@104°C	Date/Time OutOven@104°C
12/04/12 4:35:00 PM			12/05/12 8:04:00 AM

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
11/29/12	BB	Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	yes
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0004 g	19.9800	20.0200	
		Mettler AT200	50g	50.0005 g	49.9500	50.0500	
		Mettler AT200	100g	100.0012 g	99.9000	100.1000	
		Mettler AT200	150g	150.0016 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.01 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
11/30/12	BB						yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0003 g	19.9800	20.0200	
		Mettler AT200	50g	50.0005 g	49.9500	50.0500	
		Mettler AT200	100g	100.0010 g	99.9000	100.1000	
		Mettler AT200	150g	150.0015 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
12/3/12	AP	Mettler AT200	0.5g	0.5000g	0.4995	0.5005	yes
		Mettler AT200	1g	1.0001 g	0.9990	1.0010	
		Mettler AT200	20g	20.0000g	19.9800	20.0200	
		Mettler AT200	50g	50.0005g	49.9500	50.0500	
		Mettler AT200	100g	100.0009g	99.9000	100.1000	
		Mettler AT200	150g	150.0014g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	999.99 g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.99 g	1960.00	2040.00	
12/4/12	BB						yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0006 g	0.9990	1.0010	
		Mettler AT200	20g	20.0000 g	19.9800	20.0200	
		Mettler AT200	50g	50.0001 g	49.9500	50.0500	
		Mettler AT200	100g	100.0004 g	99.9000	100.1000	
		Mettler AT200	150g	150.0005 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	999.98 g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.96 g	1960.00	2040.00	

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
12-5-12	CK	Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0001 g	19.9800	20.0200	
		Mettler AT200	50g	50.0003 g	49.9500	50.0500	
		Mettler AT200	100g	100.0006 g	99.9000	100.1000	
		Mettler AT200	150g	150.0009 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	999.98 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
12/6/12	BB						Yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0001 g	19.9800	20.0200	
		Mettler AT200	50g	50.0002 g	49.9500	50.0500	
		Mettler AT200	100g	100.0004 g	99.9000	100.1000	
		Mettler AT200	150g	150.0006 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.01 g	1960.00	2040.00	
12/7/12	BB						Yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0001 g	19.9800	20.0200	
		Mettler AT200	50g	50.0002 g	49.9500	50.0500	
		Mettler AT200	100g	100.0003 g	99.9000	100.1000	
		Mettler AT200	150g	150.0005 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.01 g	1960.00	2040.00	
12/10/12	BB						Yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0002 g	19.9800	20.0200	
		Mettler AT200	50g	50.0003 g	49.9500	50.0500	
		Mettler AT200	100g	100.0003 g	99.9000	100.1000	
		Mettler AT200	150g	150.0006 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.02 g	1960.00	2040.00	

Laboratory Report

Parsons

Project #: 748350.02000 CSSA

ARF: 69526

Samples collected: December 12, 2012

APPL, Inc.

Data Validatable Package

for

Project #: 748350.02000 CSSA

ARF 69526

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CASE NARRATIVE

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

EPA Method 6010B
Metals

Case Narrative

ARF: 69526

Project: 748350.02000 CSSA

California State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Texas Certificate Number: T104704242-10-3

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

Two miscellaneous samples were received December 14, 2012, at 1.0°C. The samples were assigned Analytical Request Form (ARF) number 69526. The sample numbers and requested analyses were compared to the chains of custody. No exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
GT12033B	AY72937	MISC	12/12/12	12/14/12
GT12033L	AY72938	MISC	12/12/12	12/14/12

Percent moisture was determined using CLP 4.0 for the liver sample. Percent moisture was not determined on the bone sample.

Digestion Information:

The liver sample was frozen and homogenized according to APPL's SOP PRE003. The bone sample was dried in the oven at 104°C; once dried, a drill was used to "shave" the bone and obtain a representative sample. An aliquot of the homogenized liver and bone samples was digested according to EPA method 3050B. Since the laboratory was unable to obtain a similar clean matrix, the blank and the LCS were digested according to APPL's SOP PRE3050B. No other exception was encountered. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed according to EPA method 6010B using a Perkin Elmer Optima 5300DV ICP.

Calibrations:

Calibrations were performed according to the method for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard. All other calibration acceptance criteria were met.

Blanks:

No target metal was detected above the reporting limit (RL) in the method blank.

Spikes:

A Laboratory Control Spike (LCS), post-digestion spike (PDS), and dilution test (DT) were used for quality assurance. All LCS acceptance criteria were met.

Sample GT12033L was selected by the laboratory as the QC sample for the analytical batch. The DT was not applicable. The PDS met acceptance criteria.

Summary:

No other analytical exception is noted.

CERTIFICATION

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. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

1-4-12

Sharon Dehmlow, Laboratory Director / Date

APPL Inc.
Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer.
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other – (See case narrative)
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel
U	Not detected
Y	Percent difference between primary and confirmation column > 40%

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 69526

Client: **Parsons**
Address: **8000 Centre Park Drive Ste 200**
Austin, TX 78754
Attn: **Tammy Chang**
Phone: **512-719-6092** Fax: **512-719-6099**
Job: **748350.02000 CSSA**
PO #: **748350.30002 (prime *G012)**
Chain of Custody (Y/N): **Y** # **121312APPFA**
RAD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **STD**

Received by: **WLA**
Date Received: **12/14/12** Time: **09:30**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-6**
Chest Temp(s): **1.0°C**
Color: **A_FREZ**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Diane Anderson** *np*
QC Report Type: **DVP4/AFCEE/ERPIMS/TX**
Due Date: **01/04/13**

Comments:
pdf ARF to Tammy & Pam; send 1 DVP3 HC & send DVP3 & DVP4 on CD to Tammy.

Case Narrative. CSSA QAPP. Only report MS/MSD when requested.
Report results on APPL forms: U to the RL-no J values;
report results in wet weight (without moisture correction)
Wait to do moisture analysis after metals analysis.
EDD: ERPIMS 4 Lab PC4 checked TXF to Pamela.Ford@parsons.com

RDS

12-17 Sent ARF

Sample Distribution:
Metals: 2-$6010BDODS(Pb)
Wetlab: 1-MOIST
Other: 2-_M3050

Charges:

Invoice To:
PARSONS GOV'T SERV.
8000 Centre Park Drive Ste 200
Austin, TX 78754-5140
Attn: Ellen Felfe

	Client ID	APPL ID	Sampled		Analyses Requested
1.	GT12033B	AY72937M	12/12/12	19:30	$6010BDODS(Pb)
2.	GT12033L	AY72938M	12/12/12	19:30	$6010BDODS(Pb), MOIST

APPL Sample Receipt Form

ARF# **69526**

Sample	Container Type	Count	pH
AY72937	35 Plastic Bag	1	NA
AY72938	35 Plastic Bag	1	NA

Sample	Container Type	Count	pH

Camp Stanley Storage Activity Chain Of Custody

69526/69530

1.0C

COC ID:	121312APPFA	Relinquish_Date:	12/13/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	JDB	LabCode:	APPF
Job Number:	748350.02000	Relinquish_Time:	4:30 PM	Carrier:	FedEx
Creation Date:	12/13/2012	Collection Team:	SE	Airbill Carrier:	876436444190
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): Sam Elliott

LOCID: **GT12033B** LOGDATE: **12/12/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **19:30** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12033B_121212_N1930** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12033L** LOGDATE: **12/12/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **19:30** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12033L_121212_N1930** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12033M** LOGDATE: **12/12/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **19:30** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12033M_121212_N1930** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

Relinquished by: _____ Date 12-13-12 Time 1700
Recieved by: _____ Date _____ Time _____

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date _____ Time _____

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date 12/14/12 Time 0930

COOLER RECEIPT FORM

1) Project: 748350.02000 CSSA Date Received: 12/14/12

2) Coolers: Number of Coolers: 1

3) (YES) NO Were coolers and samples screened for radioactivity?

4) (YES) NO Were custody seals on outside of cooler? How many? 1 Date on seal? 12/13/12

5) Name on seal? See Label

6) (YES) NO NA Were custody seals unbroken and intact at the time of arrival?

7) (YES) NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex

8) Shipping slip numbers: 1) 8764 3644 4190 2) 3)

9) (YES) NO NA Was the shipping slip scanned into the database?

10) YES (NO) NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Ziploc in wet ice

12) YES NO (NA) For hand delivered samples was sufficient ice present to start the cooling process?

13) (YES) NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: JS297 Correction factor: 0

15) Cooler temp(s): 1) 1.0°C 2) 3) 4) 5) 6) 7) 8)

Chain of custody:

16) (YES) NO Was a chain of custody received?

17) (YES) NO Were the custody papers signed in the appropriate places?

18) (YES) NO Was the project identifiable from custody papers?

19) (YES) NO Did the chain of custody include date and time of sampling?

20) (YES) NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) (YES) NO Were container labels in good condition?

22) (YES) NO Was the client ID on the label?

23) (YES) NO Was the date of sampling on the label?

24) (YES) NO Was the time of sampling on the label?

25) (YES) NO Did all container labels agree with custody papers?

Sample Containers:

26) (YES) NO Were all containers sealed in separate bags?

27) (YES) NO Did all containers arrive unbroken?

28) YES (NO) Was there any leakage from samples?

29) YES (NO) Were any of the lids cracked or broken?

30) (YES) NO Were correct containers used for the tests indicated?

31) (YES) NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO (NA) Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea:

Smaller than a pea:

Preservation & Hold time:

33) (YES) NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO (NA) Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO (NA) Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO (NA) Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO (NA) Unpreserved VOA Vials received?

38) YES NO (NA) Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

CUSTODY SEAL
APPL, Inc.
(559) 275-2175
Initials JD
Date 12.13.12

Lab notified if pH was not adequate:

Deficiencies:

Signature of personnel receiving samples: Second reviewer:

Signature of project manager notified: Date and Time of notification:

Name of client notified: Date and Time of notification:

Information given to client:

by whom (Initials):

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	01/03/13	01/03/13	#6010B-130103A-AY72938

Metals SC-Blank-REG MDLs
Printed: 01/04/13 11:46:32 AM

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.3	103	80-120	01/03/13	01/03/13	#6010B-130103A-AY72938

Comments: _____

6010B/3050B^

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 69526

Case No: 69526 Date Analyzed: 01/03/13

Matrix: MISC Instrument: Phoebe

Blank ID: 130103A-BLK Time Analyzed: 1246

APPL ID.	Client Sample No.	File ID.	Date Analyzed
130103A-LCS	Lab Control Spike	130103A	01/03/13 1250
130103A-BLK	Blank	130103A	01/03/13 1246
AY72938	GT12033L	130103A	01/03/13 1300
AY72937	GT12033B	130103A	01/03/13 1255

Comments: Batch: #6010B-130103A

Printed: 01/04/13 11:46:36 AM

Form 4, Blank Summary

METALS
Sample Data

APPL, INC.

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12033B
Sample Collection Date: 12/12/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69526
APPL ID: AY72937

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	01/03/13	01/03/13

Printed: 01/04/13 11:46:37 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 14
Sample ID: AY72937M01
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.55 g
Dilution:

Autosampler Location: 40
Date Collected: 01/03/13 12:55:07 PM
Data Type: Reprocessed on 01/03/13 3:18:38 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72937M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	1535.6	11.34	ug/L	0.159	0.445	mg/kg	0.0062	1.40%
Al 308.215	67.3	-3.326	ug/L	15.4654	-0.130	mg/kg	0.6065	465.02%
As 188.979	104.2	17.53	ug/L	1.202	0.688	mg/kg	0.0472	6.86%
B	127.0	-13.19	ug/L	1.521	-0.517	mg/kg	0.0596	11.53%
Ba 233.527	140911.9	783.5	ug/L	4.42	30.73	mg/kg	0.173	0.56%
Be 313.107	-4790.3	-0.689	ug/L	0.0276	-0.027	mg/kg	0.0011	4.01%
Ca 315.887	20867982.7	2474000	ug/L	6421.6	97030	mg/kg	251.8	0.26%
Cd 214.440	4724.9	6.276	ug/L	0.1026	0.246	mg/kg	0.0040	1.64%
Co 228.616	287.6	-4.604	ug/L	0.1147	-0.181	mg/kg	0.0045	2.49%
Cr 267.716	9285.9	52.60	ug/L	0.693	2.063	mg/kg	0.0272	1.32%
Cu 327.393	13256.3	137.6	ug/L	0.95	5.396	mg/kg	0.0372	0.69%
Fe 273.955	17478.8	554.2	ug/L	0.61	21.73	mg/kg	0.024	0.11%
K 766.490	12701.6	4734	ug/L	35.7	185.6	mg/kg	1.40	0.75%
Mg 285.213	674307.1	49870	ug/L	341.6	1956	mg/kg	13.4	0.69%
Mn 257.610	334.2	-3.769	ug/L	0.1007	-0.148	mg/kg	0.0040	2.67%
Mo 202.031	-67.3	-13.83	ug/L	0.142	-0.543	mg/kg	0.0056	1.03%
Na 589.592	1240991.8	93680	ug/L	732.1	3674	mg/kg	28.7	0.78%
Ni 231.604	72672.9	1004	ug/L	8.5	39.37	mg/kg	0.335	0.85%
P 213.617	8961586.7	1104000	ug/L	7602.6	43290	mg/kg	298.1	0.69%
Pb 220.353	-44.5	-2.572	ug/L	0.9346	-0.101	mg/kg	0.0367	36.34%
Sb 206.836	2.2	0.320	ug/L	0.6968	0.013	mg/kg	0.0273	217.43%
Se 196.026	51.5	-28.86	ug/L	3.281	-1.132	mg/kg	0.1287	11.37%
Sn 189.927	61.0	6.567	ug/L	1.0812	0.258	mg/kg	0.0424	16.46%
Sr 421.552	717570.6	716.2	ug/L	5.38	28.09	mg/kg	0.211	0.75%
Ti 337.279	195.8	0.514	ug/L	0.4520	0.020	mg/kg	0.0177	87.88%
Tl 190.801	-19.3	-2.725	ug/L	0.6187	-0.107	mg/kg	0.0243	22.70%
V 292.402	268.0	-0.435	ug/L	0.1049	-0.017	mg/kg	0.0041	24.10%
Zn 206.200	92662.8	890.8	ug/L	4.86	34.93	mg/kg	0.191	0.55%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12033L
Sample Collection Date: 12/12/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69526
APPL ID: AY72938

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	01/03/13	01/03/13

Printed: 01/04/13 11:46:38 AM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 15
Sample ID: AY72938M01
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.47 g
Dilution:

Autosampler Location: 41
Date Collected: 01/03/13 1:00:48 PM
Data Type: Reprocessed on 01/03/13 3:18:39 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72938M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	194.2	1.434	ug/L	0.5878	0.058	mg/kg	0.0238	40.99%
Al 308.215	14.9	12.38	ug/L	8.951	0.501	mg/kg	0.3624	72.29%
As 188.979	18.8	3.165	ug/L	0.6247	0.128	mg/kg	0.0253	19.74%
B	0.6	14.60	ug/L	0.963	0.591	mg/kg	0.0390	6.59%
Ba 233.527	653.4	1.091	ug/L	0.1590	0.044	mg/kg	0.0064	14.56%
Be 313.107	81.0	0.012	ug/L	0.0009	0.000	mg/kg	0.0000	8.11%
Ca 315.887	10827.5	1279	ug/L	10.1	51.78	mg/kg	0.411	0.79%
Cd 214.440	1075.0	2.422	ug/L	0.0224	0.098	mg/kg	0.0009	0.93%
Co 228.616	68.0	0.739	ug/L	0.1144	0.030	mg/kg	0.0046	15.49%
Cr 267.716	456.3	2.908	ug/L	0.0597	0.118	mg/kg	0.0024	2.05%
Cu 327.393	57673.8	598.6	ug/L	4.74	24.24	mg/kg	0.192	0.79%
Fe 273.955	131905.2	4636	ug/L	35.2	187.7	mg/kg	1.43	0.76%
K 766.490	131264.6	58670	ug/L	264.0	2375	mg/kg	10.7	0.45%
Mg 285.213	45341.6	3360	ug/L	35.0	136.0	mg/kg	1.42	1.04%
Mn 257.610	1694.8	43.71	ug/L	0.164	1.770	mg/kg	0.0067	0.38%
Mo 202.031	302.7	6.746	ug/L	0.1273	0.273	mg/kg	0.0052	1.89%
Na 589.592	225493.5	17050	ug/L	139.0	690.1	mg/kg	5.63	0.82%
Ni 231.604	-18.1	-0.279	ug/L	0.0773	-0.011	mg/kg	0.0031	27.67%
P 213.617	557518.8	68670	ug/L	642.8	2780	mg/kg	26.0	0.94%
Pb 220.353	-25.8	-1.490	ug/L	0.6197	-0.060	mg/kg	0.0251	41.60%
Sb 206.836	-1.7	-0.243	ug/L	0.4721	-0.010	mg/kg	0.0191	194.35%
Se 196.026	122.2	20.40	ug/L	1.498	0.826	mg/kg	0.0607	7.35%
Sn 189.927	-49.7	-5.355	ug/L	0.3547	-0.217	mg/kg	0.0144	6.62%
Sr 421.552	839.5	0.974	ug/L	0.1815	0.039	mg/kg	0.0073	18.64%
Ti 337.279	61.6	1.627	ug/L	0.1367	0.066	mg/kg	0.0055	8.40%
Tl 190.801	-6.5	-0.915	ug/L	0.4160	-0.037	mg/kg	0.0168	45.48%
V 292.402	354.6	0.227	ug/L	0.1787	0.009	mg/kg	0.0072	78.59%
Zn 206.200	121807.1	1166	ug/L	6.5	47.21	mg/kg	0.265	0.56%

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC.. Contract: Parsons
ARF No: 69526 SDG: 69526
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 01/03/13 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 12:14	%R(1)	True CCV1	Found 12:37	%R(1)	True CCV2	Found 13:27	%R(1)	
Lead (Pb)	1000	1044	104	1000	1050	105	750	803.9	107	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69526 SDG: 69526

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 01/03/13

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	12:20		12:41		13:35				12:46		
Lead (Pb)	5.00	U	5.00	U	5.00	U			.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name:	A.P.P.L. INC.	Contract:	Parsons
ARF No.:	69526	SDG:	69526
ICP ID Number:	Phoebe	ICS Source:	Environmental Express

Analysis Date: 01/03/13 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 12:29	Sol AB 12:34	%R(1)
Aluminum (Al)	200000	200000	187400	189700	94.8
Calcium (Ca)	200000	200000	192300	194200	97.1
Iron (Fe)	200000	200000	183500	182300	91.2
Magnesium (Mg)	200000	200000	188400	190900	95.5
Lead (Pb)		1000	0.518	946.4	94.6

(1) Control Limits: Metals 80-120

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

GT12033L

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69526 SDG: 69526

Analysis Date: 01/03/13 Concentration Units: mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	19.69		ND		20.243	97.3		

Comments:

01/03/13 13:00 AY72938M01

01/03/13 13:16 AY72938M01-A

Sequence No.: 18
Sample ID: AY72938M01-A
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.47 g
Dilution:

Autosampler Location: 44
Date Collected: 01/03/13 1:16:55 PM
Data Type: Reprocessed on 01/03/13 3:18:42 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72938M01-A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	25705.4	189.8	ug/L	1.78	7.684	mg/kg	0.0720	0.94%
Al 308.215	4252.0	3369	ug/L	5.6	136.4	mg/kg	0.23	0.17%
As 188.979	2719.2	457.8	ug/L	2.19	18.53	mg/kg	0.089	0.48%
B	1146.3	434.6	ug/L	3.51	17.60	mg/kg	0.142	0.81%
Ba 233.527	84556.7	468.8	ug/L	3.71	18.98	mg/kg	0.150	0.79%
Be 313.107	669299.1	96.28	ug/L	0.328	3.898	mg/kg	0.0133	0.34%
Ca 315.887	369278.9	43770	ug/L	89.8	1772	mg/kg	3.6	0.21%
Cd 214.440	39905.9	99.99	ug/L	0.748	4.048	mg/kg	0.0303	0.75%
Co 228.616	38549.2	487.6	ug/L	1.79	19.74	mg/kg	0.072	0.37%
Cr 267.716	77310.2	491.3	ug/L	3.86	19.89	mg/kg	0.156	0.79%
Cu 327.393	103857.4	1078	ug/L	11.0	43.64	mg/kg	0.446	1.02%
Fe 273.955	181106.3	6324	ug/L	38.6	256.0	mg/kg	1.56	0.61%
K 766.490	145602.7	65080	ug/L	334.1	2635	mg/kg	13.5	0.51%
Mg 285.213	635420.2	47030	ug/L	134.6	1904	mg/kg	5.4	0.29%
Mn 257.610	19449.2	499.2	ug/L	1.18	20.21	mg/kg	0.048	0.24%
Mo 202.031	24014.2	490.3	ug/L	1.82	19.85	mg/kg	0.074	0.37%
Na 589.592	827486.9	62610	ug/L	229.3	2535	mg/kg	9.3	0.37%
Ni 231.604	36592.5	504.8	ug/L	3.98	20.44	mg/kg	0.161	0.79%
P 213.617	579535.1	71380	ug/L	385.1	2890	mg/kg	15.6	0.54%
Pb 220.353	8414.8	486.3	ug/L	3.28	19.69	mg/kg	0.133	0.67%
Sb 206.836	3156.2	450.1	ug/L	1.83	18.22	mg/kg	0.074	0.41%
Se 196.026	3023.4	489.4	ug/L	5.87	19.81	mg/kg	0.238	1.20%
Sn 189.927	4604.2	496.0	ug/L	5.31	20.08	mg/kg	0.215	1.07%
Sr 421.552	465984.1	476.0	ug/L	2.01	19.27	mg/kg	0.081	0.42%
Ti 337.279	14839.7	466.5	ug/L	1.28	18.89	mg/kg	0.052	0.27%
Tl 190.801	3444.9	487.0	ug/L	0.47	19.72	mg/kg	0.019	0.10%
V 292.402	129002.6	493.5	ug/L	2.24	19.98	mg/kg	0.091	0.45%
Zn 206.200	210249.8	2018	ug/L	13.4	81.70	mg/kg	0.541	0.66%

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 130103A6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1 Autosampler Location: 1
Sample ID: CalBlk 130103RJS I:PB O:R Date Collected: 01/03/13 11:59:43 AM
Analyst: Data Type: Reprocessed on 01/03/13 3:18:24 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CalBlk 130103RJS I:PB O:R

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-201.2	40.95	20.35%	[0.00]	ug/L
Al 308.215	84.7	10.78	12.72%	[0.00]	ug/L
As 188.979	-4.3	4.60	105.92%	[0.00]	ug/L
B	6.0	5.74	95.29%	[0.00]	ug/L
Ba 233.527	148.1	4.59	3.10%	[0.00]	ug/L
Be 313.107	1276.9	74.02	5.80%	[0.00]	ug/L
Ca 315.887	-207.5	11.64	5.61%	[0.00]	ug/L
Cd 214.440	491.8	13.29	2.70%	[0.00]	ug/L
Co 228.616	107.3	9.51	8.86%	[0.00]	ug/L
Cr 267.716	817.5	2.55	0.31%	[0.00]	ug/L
Cu 327.393	-13.4	33.29	247.79%	[0.00]	ug/L
Fe 273.955	256.8	23.08	8.99%	[0.00]	ug/L
K 766.490	-294.1	237.48	80.74%	[0.00]	ug/L
Mg 285.213	-16.4	4.21	25.67%	[0.00]	ug/L
Mn 257.610	-46.8	1.86	3.98%	[0.00]	ug/L
Mo 202.031	177.2	16.88	9.52%	[0.00]	ug/L
Na 589.592	-525.0	92.88	17.69%	[0.00]	ug/L
Ni 231.604	-201.5	12.61	6.26%	[0.00]	ug/L
P 213.617	44.4	5.74	12.94%	[0.00]	ug/L
Pb 220.353	-26.4	4.91	18.56%	[0.00]	ug/L
Sb 206.836	-6.9	5.96	85.80%	[0.00]	ug/L
Se 196.026	-8.2	10.47	126.98%	[0.00]	ug/L
Sn 189.927	-18.7	2.51	13.48%	[0.00]	ug/L
Sr 421.552	999.5	240.56	24.07%	[0.00]	ug/L
Ti 337.279	-343.0	4.86	1.42%	[0.00]	ug/L
Tl 190.801	-9.0	3.23	35.97%	[0.00]	ug/L
V 292.402	-925.3	95.81	10.36%	[0.00]	ug/L
Zn 206.200	-691.1	16.19	2.34%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 130103RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 01/03/13 12:04:05 PM
Data Type: Reprocessed on 01/03/13 3:18:26 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 130103RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	223.5	65.40	29.26%	[1.00]	ug/L
Al 308.215	147.2	4.96	3.37%	[100.00]	ug/L
As 188.979	27.4	5.87	21.42%	[3.50]	ug/L
B	155.4	4.13	2.66%	[50.00]	ug/L
Ba 233.527	975.7	10.59	1.09%	[5.00]	ug/L
Be 313.107	15251.0	104.49	0.69%	[2.00]	ug/L
Ca 315.887	931.5	13.70	1.47%	[100.00]	ug/L
Cd 214.440	2377.8	15.19	0.64%	[5.00]	ug/L
Co 228.616	436.1	19.58	4.49%	[5.00]	ug/L
Cr 267.716	887.8	7.08	0.80%	[5.00]	ug/L
Cu 327.393	581.0	101.43	17.46%	[5.00]	ug/L
Fe 273.955	1588.1	39.44	2.48%	[50.00]	ug/L
K 766.490	2250.3	152.76	6.79%	[1000.00]	ug/L
Mg 285.213	790.2	5.81	0.74%	[50]	ug/L
Mn 257.610	210.8	3.86	1.83%	[5.00]	ug/L
Mo 202.031	244.8	0.83	0.34%	[5.00]	ug/L
Na 589.592	14475.9	181.40	1.25%	[1000.00]	ug/L
Ni 231.604	423.9	14.48	3.42%	[5.00]	ug/L
P 213.617	222.5	6.10	2.74%	[25.00]	ug/L
Pb 220.353	49.5	2.14	4.32%	[3.00]	ug/L
Sb 206.836	36.3	8.81	24.27%	[5.00]	ug/L
Se 196.026	23.8	6.82	28.68%	[5.00]	ug/L
Sn 189.927	51.7	3.63	7.02%	[5.00]	ug/L
Sr 421.552	5523.0	72.77	1.32%	[5.00]	ug/L
Ti 337.279	176.4	2.33	1.32%	[5.00]	ug/L
Tl 190.801	36.0	2.45	6.80%	[5.00]	ug/L
V 292.402	1489.2	260.18	17.47%	[5.00]	ug/L
Zn 206.200	2469.7	8.65	0.35%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 130103RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 01/03/13 12:08:28 PM
Data Type: Reprocessed on 01/03/13 3:18:27 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 130103RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	68443.4	899.08	1.31%	[500.0]	ug/L
Al 308.215	26538.8	544.19	2.05%	[20000.00]	ug/L
As 188.979	6147.9	9.92	0.16%	[1000.00]	ug/L
B	2892.5	91.65	3.17%	[1000.00]	ug/L
Ba 233.527	186521.4	528.02	0.28%	[1000.00]	ug/L
Be 313.107	7427726.1	135527.83	1.82%	[1000.00]	ug/L
Ca 315.887	448656.8	7621.40	1.70%	[50000]	ug/L
Cd 214.440	417008.6	922.95	0.22%	[1000.00]	ug/L
Co 228.616	82035.6	395.93	0.48%	[1000.00]	ug/L
Cr 267.716	163701.9	298.28	0.18%	[1000.00]	ug/L
Cu 327.393	97436.8	390.22	0.40%	[1000.00]	ug/L
Fe 273.955	590664.7	1541.94	0.26%	[20000]	ug/L
K 766.490	45939.5	512.34	1.12%	[20000]	ug/L
Mg 285.213	722233.2	10287.15	1.42%	[50000]	ug/L
Mn 257.610	41222.1	847.59	2.06%	[1000.00]	ug/L
Mo 202.031	52404.4	30.82	0.06%	[1000.00]	ug/L
Na 589.592	344463.2	5515.51	1.60%	[25000]	ug/L
Ni 231.604	75317.6	59.67	0.08%	[1000.00]	ug/L
P 213.617	42593.6	142.96	0.34%	[5000]	ug/L
Pb 220.353	18343.6	38.30	0.21%	[1000.00]	ug/L
Sb 206.836	7261.4	35.84	0.49%	[1000.00]	ug/L
Se 196.026	6417.0	77.72	1.21%	[1000.00]	ug/L
Sn 189.927	9720.5	135.64	1.40%	[1000.00]	ug/L
Sr 421.552	1017656.2	15673.43	1.54%	[1000.00]	ug/L
Ti 337.279	33275.4	621.99	1.87%	[1000.00]	ug/L
Tl 190.801	7369.2	58.54	0.79%	[1000.00]	ug/L
V 292.402	274926.7	492.19	0.18%	[1000.00]	ug/L
Zn 206.200	109454.0	345.30	0.32%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 130103RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 01/03/13 12:11:10 PM
Data Type: Reprocessed on 01/03/13 3:18:28 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 130103RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	135085.2	560.06	0.41%	[1000.00]	ug/L
Al 308.215	49942.9	685.59	1.37%	[40000.00]	ug/L
As 188.979	11776.6	101.02	0.86%	[2000.00]	ug/L
B	5413.3	68.05	1.26%	[2000.00]	ug/L
Ba 233.527	354578.9	191.71	0.05%	[2000.00]	ug/L
Be 313.107	13665650.8	90184.72	0.66%	[2000.00]	ug/L
Ca 315.887	829932.2	6771.73	0.82%	[100000.0]	ug/L
Cd 214.440	788602.0	826.20	0.10%	[2000.00]	ug/L
Co 228.616	156448.2	304.19	0.19%	[2000.00]	ug/L
Cr 267.716	311615.7	289.87	0.09%	[2000.00]	ug/L
Cu 327.393	192145.6	295.80	0.15%	[2000.00]	ug/L
Fe 273.955	1126743.3	359.89	0.03%	[40000]	ug/L
K 766.490	88894.9	611.89	0.69%	[40000]	ug/L
Mg 285.213	1327741.8	8935.47	0.67%	[100000]	ug/L
Mn 257.610	76425.0	1123.31	1.47%	[2000.00]	ug/L
Mo 202.031	96477.2	69.35	0.07%	[2000.00]	ug/L
Na 589.592	653316.9	4841.63	0.74%	[50000]	ug/L
Ni 231.604	143169.0	129.10	0.09%	[2000.00]	ug/L
P 213.617	80188.4	227.58	0.28%	[10000]	ug/L
Pb 220.353	34086.8	204.48	0.60%	[2000.00]	ug/L
Sb 206.836	13899.9	150.37	1.08%	[2000.00]	ug/L
Se 196.026	12209.3	24.50	0.20%	[2000.00]	ug/L
Sn 189.927	18344.0	134.32	0.73%	[2000.00]	ug/L
Sr 421.552	1937932.1	13459.68	0.69%	[2000.00]	ug/L
Ti 337.279	62719.6	703.99	1.12%	[2000.00]	ug/L
Tl 190.801	14000.3	114.11	0.82%	[2000.00]	ug/L
V 292.402	528695.9	256.83	0.05%	[2000.00]	ug/L
Zn 206.200	206538.4	126.40	0.06%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	135.4	0.00000	0.999986	
Al 308.215	3	Lin Thru 0	0.0	1.264	0.00000	0.999693	
As 188.979	3	Lin Thru 0	0.0	5.940	0.00000	0.999847	
B	3	Lin Thru 0	0.0	2.744	0.00000	0.999629	
Ba 233.527	3	Lin Thru 0	0.0	179.1	0.00000	0.999788	
Be 313.107	3	Lin Thru 0	0.0	6952	0.00000	0.999415	
Ca 315.887	3	Lin Thru 0	0.0	8.434	0.00000	0.999490	
Cd 214.440	3	Lin Thru 0	0.0	398.8	0.00000	0.999741	
Co 228.616	3	Lin Thru 0	0.0	78.99	0.00000	0.999814	
Cr 267.716	3	Lin Thru 0	0.0	157.4	0.00000	0.999799	
Cu 327.393	3	Lin Thru 0	0.0	96.35	0.00000	0.999984	
Fe 273.955	3	Lin Thru 0	0.0	28.44	0.00000	0.999816	
K 766.490	3	Lin Thru 0	0.0	2.237	0.00000	0.999911	
Mg 285.213	3	Lin Thru 0	0.0	13.51	0.00000	0.999403	
Mn 257.610	3	Lin Thru 0	0.0	38.81	0.00000	0.999519	
Mo 202.031	3	Lin Thru 0	0.0	49.07	0.00000	0.999424	
Na 589.592	3	Lin Thru 0	0.0	13.21	0.00000	0.999766	
Ni 231.604	3	Lin Thru 0	0.0	72.33	0.00000	0.999787	
P 213.617	3	Lin Thru 0	0.0	8.119	0.00000	0.999697	
Pb 220.353	3	Lin Thru 0	0.0	17.30	0.00000	0.999549	
Sb 206.836	3	Lin Thru 0	0.0	7.012	0.00000	0.999842	
Se 196.026	3	Lin Thru 0	0.0	6.167	0.00000	0.999795	
Sn 189.927	3	Lin Thru 0	0.0	9.282	0.00000	0.999721	
Sr 421.552	3	Lin Thru 0	0.0	978.7	0.00000	0.999802	
Ti 337.279	3	Lin Thru 0	0.0	31.74	0.00000	0.999709	
Tl 190.801	3	Lin Thru 0	0.0	7.074	0.00000	0.999782	

V 292.402	3	Lin Thru 0	0.0	266.5	0.00000	0.999874
Zn 206.200	3	Lin Thru 0	0.0	104.5	0.00000	0.999719

Sequence No.: 5
Sample ID: ICV 130103RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 01/03/13 12:14:59 PM
Data Type: Reprocessed on 01/03/13 3:18:29 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 130103RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	68595.3	506.4	ug/L	6.26	506.4	ug/L	6.26	1.24%
QC value within limits for Ag 338.289 Recovery = 101.29%								
Al 308.215	32522.4	25730	ug/L	280.3	25730	ug/L	280.3	1.09%
QC value within limits for Al 308.215 Recovery = 102.94%								
As 188.979	6178.7	1040	ug/L	6.2	1040	ug/L	6.2	0.60%
QC value within limits for As 188.979 Recovery = 104.01%								
B	2844.9	1110	ug/L	23.3	1110	ug/L	23.3	2.10%
QC value greater than the upper limit for B Recovery = 111.05%								
Ba 233.527	179183.1	987.1	ug/L	2.08	987.1	ug/L	2.08	0.21%
QC value within limits for Ba 233.527 Recovery = 98.71%								
Be 313.107	7232440.2	1040	ug/L	13.8	1040	ug/L	13.8	1.33%
QC value within limits for Be 313.107 Recovery = 104.04%								
Ca 315.887	221628.7	26270	ug/L	149.9	26270	ug/L	149.9	0.57%
QC value within limits for Ca 315.887 Recovery = 105.07%								
Cd 214.440	430409.2	1079	ug/L	4.7	1079	ug/L	4.7	0.44%
QC value within limits for Cd 214.440 Recovery = 107.85%								
Co 228.616	79697.0	1008	ug/L	3.6	1008	ug/L	3.6	0.36%
QC value within limits for Co 228.616 Recovery = 100.76%								
Cr 267.716	164113.2	1044	ug/L	4.4	1044	ug/L	4.4	0.42%
QC value within limits for Cr 267.716 Recovery = 104.38%								
Cu 327.393	95074.1	986.8	ug/L	8.04	986.8	ug/L	8.04	0.81%
QC value within limits for Cu 327.393 Recovery = 98.68%								
Fe 273.955	735366.2	25770	ug/L	97.0	25770	ug/L	97.0	0.38%
QC value within limits for Fe 273.955 Recovery = 103.09%								
K 766.490	55648.7	24860	ug/L	118.6	24860	ug/L	118.6	0.48%
QC value within limits for K 766.490 Recovery = 99.45%								
Mg 285.213	362645.2	26870	ug/L	134.3	26870	ug/L	134.3	0.50%
QC value within limits for Mg 285.213 Recovery = 107.48%								
Mn 257.610	42378.4	1092	ug/L	10.6	1092	ug/L	10.6	0.97%
QC value within limits for Mn 257.610 Recovery = 109.21%								
Mo 202.031	49741.2	1016	ug/L	4.1	1016	ug/L	4.1	0.40%
QC value within limits for Mo 202.031 Recovery = 101.63%								
Na 589.592	331957.7	25110	ug/L	123.0	25110	ug/L	123.0	0.49%
QC value within limits for Na 589.592 Recovery = 100.44%								
Ni 231.604	76969.5	1062	ug/L	5.3	1062	ug/L	5.3	0.50%
QC value within limits for Ni 231.604 Recovery = 106.21%								
P 213.617	42477.6	5232	ug/L	18.3	5232	ug/L	18.3	0.35%
QC value within limits for P 213.617 Recovery = 104.64%								
Pb 220.353	18061.8	1044	ug/L	4.2	1044	ug/L	4.2	0.40%
QC value within limits for Pb 220.353 Recovery = 104.38%								
Sb 206.836	7091.9	1011	ug/L	8.4	1011	ug/L	8.4	0.83%
QC value within limits for Sb 206.836 Recovery = 101.14%								
Se 196.026	6473.9	1061	ug/L	14.2	1061	ug/L	14.2	1.34%
QC value within limits for Se 196.026 Recovery = 106.11%								
Sn 189.927	6590.1	710.0	ug/L	11.06	710.0	ug/L	11.06	1.56%
QC value greater than the upper limit for Sn 189.927 Recovery = 142.00%								
Sr 421.552	1002193.6	1024	ug/L	5.9	1024	ug/L	5.9	0.58%
QC value within limits for Sr 421.552 Recovery = 102.37%								
Ti 337.279	38453.5	1211	ug/L	25.3	1211	ug/L	25.3	2.09%
QC value greater than the upper limit for Ti 337.279 Recovery = 121.09%								
Tl 190.801	7338.7	1037	ug/L	2.4	1037	ug/L	2.4	0.24%
QC value within limits for Tl 190.801 Recovery = 103.74%								
V 292.402	268489.4	1024	ug/L	4.2	1024	ug/L	4.2	0.41%
QC value within limits for V 292.402 Recovery = 102.44%								
Zn 206.200	109114.1	1054	ug/L	2.7	1054	ug/L	2.7	0.26%
QC value within limits for Zn 206.200 Recovery = 105.37%								

QC Failed. Continue with analysis.

Sequence No.: 6
Sample ID: ICB 130103RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 01/03/13 12:20:40 PM
Data Type: Reprocessed on 01/03/13 3:18:30 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 130103RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	25.9	0.191	ug/L	0.6442	0.191	ug/L	0.6442	336.93%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	16.5	13.03	ug/L	6.921	13.03	ug/L	6.921	53.11%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.6	1.271	ug/L	0.5424	1.271	ug/L	0.5424	42.68%
QC value within limits for As 188.979 Recovery = Not calculated								
B	13.8	5.018	ug/L	3.0273	5.018	ug/L	3.0273	60.33%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-7.3	-0.042	ug/L	0.0696	-0.042	ug/L	0.0696	166.18%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	155.7	0.022	ug/L	0.0064	0.022	ug/L	0.0064	28.36%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	10.5	1.241	ug/L	1.6902	1.241	ug/L	1.6902	136.16%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	28.1	0.071	ug/L	0.0139	0.071	ug/L	0.0139	19.77%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-10.6	-0.135	ug/L	0.0557	-0.135	ug/L	0.0557	41.18%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	11.2	0.071	ug/L	0.0408	0.071	ug/L	0.0408	57.04%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	181.6	1.884	ug/L	0.3580	1.884	ug/L	0.3580	19.00%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	52.5	1.826	ug/L	0.8155	1.826	ug/L	0.8155	44.65%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	131.4	58.76	ug/L	24.476	58.76	ug/L	24.476	41.65%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	15.3	1.130	ug/L	0.4763	1.130	ug/L	0.4763	42.15%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	13.1	0.338	ug/L	0.1471	0.338	ug/L	0.1471	43.52%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	4.2	0.087	ug/L	0.1933	0.087	ug/L	0.1933	222.38%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	437.4	33.09	ug/L	8.543	33.09	ug/L	8.543	25.82%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	5.4	0.073	ug/L	0.1386	0.073	ug/L	0.1386	189.13%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	1.3	0.155	ug/L	0.0993	0.155	ug/L	0.0993	64.26%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	8.7	0.503	ug/L	0.4897	0.503	ug/L	0.4897	97.44%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	6.9	0.989	ug/L	0.4773	0.989	ug/L	0.4773	48.27%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-15.3	-2.488	ug/L	1.5510	-2.488	ug/L	1.5510	62.34%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	18.9	2.035	ug/L	0.6293	2.035	ug/L	0.6293	30.92%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	104.6	0.107	ug/L	0.1712	0.107	ug/L	0.1712	160.10%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	11.4	0.357	ug/L	0.4322	0.357	ug/L	0.4322	120.93%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	11.8	1.663	ug/L	0.2284	1.663	ug/L	0.2284	13.74%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	63.6	0.240	ug/L	0.1255	0.240	ug/L	0.1255	52.29%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	28.8	0.278	ug/L	0.0914	0.278	ug/L	0.0914	32.93%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 130103RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 01/03/13 12:29:24 PM
Data Type: Reprocessed on 01/03/13 3:18:32 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 130103RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	18.5	0.136	ug/L	0.0922	0.136	ug/L	0.0922	67.61%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	236957.3	187400	ug/L	896.3	187400	ug/L	896.3	0.48%
QC value within limits for Al 308.215 Recovery = 93.72%								
As 188.979	11.8	1.986	ug/L	1.1887	1.986	ug/L	1.1887	59.84%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-1465.2	-0.047	ug/L	12.6063	-0.047	ug/L	12.6063	>999.9%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	17699.7	-0.155	ug/L	1.4371	-0.155	ug/L	1.4371	925.53%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-436.3	-0.063	ug/L	0.0097	-0.063	ug/L	0.0097	15.49%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	1621943.3	192300	ug/L	1116.6	192300	ug/L	1116.6	0.58%
QC value within limits for Ca 315.887 Recovery = 96.14%								
Cd 214.440	3856.5	0.184	ug/L	0.2009	0.184	ug/L	0.2009	109.32%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	325.4	-0.054	ug/L	0.5289	-0.054	ug/L	0.5289	984.18%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-136.7	-0.259	ug/L	0.2196	-0.259	ug/L	0.2196	84.93%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	49.8	0.517	ug/L	0.3293	0.517	ug/L	0.3293	63.76%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	5220002.0	183500	ug/L	2033.6	183500	ug/L	2033.6	1.11%
QC value within limits for Fe 273.955 Recovery = 91.76%								
K 766.490	451.6	84.52	ug/L	57.588	84.52	ug/L	57.588	68.13%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	2542605.6	188400	ug/L	921.0	188400	ug/L	921.0	0.49%
QC value within limits for Mg 285.213 Recovery = 94.20%								
Mn 257.610	-118.3	-1.821	ug/L	0.8127	-1.821	ug/L	0.8127	44.63%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-679.6	0.120	ug/L	0.4361	0.120	ug/L	0.4361	362.87%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	346.2	-18.83	ug/L	11.147	-18.83	ug/L	11.147	59.20%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-35.5	-0.636	ug/L	0.3832	-0.636	ug/L	0.3832	60.24%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-2.0	-0.243	ug/L	1.1513	-0.243	ug/L	1.1513	474.19%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	9.0	0.518	ug/L	0.5065	0.518	ug/L	0.5065	97.74%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-0.4	-0.060	ug/L	0.9954	-0.060	ug/L	0.9954	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-538.9	1.972	ug/L	4.6480	1.972	ug/L	4.6480	235.69%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	14.2	1.525	ug/L	0.8131	1.525	ug/L	0.8131	53.32%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2198.6	0.070	ug/L	0.0430	0.070	ug/L	0.0430	61.38%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	92.8	-0.461	ug/L	0.9572	-0.461	ug/L	0.9572	207.47%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-1.2	-0.166	ug/L	0.3319	-0.166	ug/L	0.3319	199.45%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	11725.9	-1.541	ug/L	0.7275	-1.541	ug/L	0.7275	47.21%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	904.3	-0.928	ug/L	0.2377	-0.928	ug/L	0.2377	25.62%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 130103RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 01/03/13 12:34:00 PM
Data Type: Reprocessed on 01/03/13 3:18:33 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 130103RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	134949.9	996.3	ug/L	4.58	996.3	ug/L	4.58	0.46%
QC value within limits for Ag 338.289 Recovery = 99.63%								
Al 308.215	239809.6	189700	ug/L	1404.5	189700	ug/L	1404.5	0.74%
QC value within limits for Al 308.215 Recovery = 94.85%								
As 188.979	2722.6	458.3	ug/L	4.34	458.3	ug/L	4.34	0.95%
QC value within limits for As 188.979 Recovery = 91.67%								
B	-1485.5	-12.03	ug/L	9.375	-12.03	ug/L	9.375	77.94%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	99189.3	455.8	ug/L	1.38	455.8	ug/L	1.38	0.30%
QC value within limits for Ba 233.527 Recovery = 91.15%								
Be 313.107	3383902.7	486.8	ug/L	1.81	486.8	ug/L	1.81	0.37%
QC value within limits for Be 313.107 Recovery = 97.35%								
Ca 315.887	1638388.8	194200	ug/L	1640.8	194200	ug/L	1640.8	0.84%
QC value within limits for Ca 315.887 Recovery = 97.11%								
Cd 214.440	380140.5	943.9	ug/L	2.56	943.9	ug/L	2.56	0.27%
QC value within limits for Cd 214.440 Recovery = 94.39%								
Co 228.616	37018.8	465.4	ug/L	4.18	465.4	ug/L	4.18	0.90%
QC value within limits for Co 228.616 Recovery = 93.07%								
Cr 267.716	73785.3	469.9	ug/L	1.34	469.9	ug/L	1.34	0.29%
QC value within limits for Cr 267.716 Recovery = 93.98%								
Cu 327.393	47415.5	492.1	ug/L	1.79	492.1	ug/L	1.79	0.36%
QC value within limits for Cu 327.393 Recovery = 98.43%								
Fe 273.955	5185623.7	182300	ug/L	473.8	182300	ug/L	473.8	0.26%
QC value within limits for Fe 273.955 Recovery = 91.13%								
K 766.490	249.5	-6.434	ug/L	91.2967	-6.434	ug/L	91.2967	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	2576686.8	190900	ug/L	1273.9	190900	ug/L	1273.9	0.67%
QC value within limits for Mg 285.213 Recovery = 95.46%								
Mn 257.610	18488.6	477.5	ug/L	7.97	477.5	ug/L	7.97	1.67%
QC value within limits for Mn 257.610 Recovery = 95.49%								
Mo 202.031	21775.7	458.0	ug/L	2.32	458.0	ug/L	2.32	0.51%
QC value within limits for Mo 202.031 Recovery = 91.59%								
Na 589.592	426.4	-14.68	ug/L	5.442	-14.68	ug/L	5.442	37.08%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	67893.4	937.6	ug/L	3.42	937.6	ug/L	3.42	0.36%
QC value within limits for Ni 231.604 Recovery = 93.76%								
P 213.617	39.8	4.906	ug/L	1.8168	4.906	ug/L	1.8168	37.03%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	16375.8	946.4	ug/L	12.91	946.4	ug/L	12.91	1.36%
QC value within limits for Pb 220.353 Recovery = 94.64%								
Sb 206.836	3305.5	471.4	ug/L	5.18	471.4	ug/L	5.18	1.10%
QC value within limits for Sb 206.836 Recovery = 94.28%								
Se 196.026	2516.4	496.5	ug/L	9.33	496.5	ug/L	9.33	1.88%
QC value within limits for Se 196.026 Recovery = 99.30%								
Sn 189.927	28.9	3.118	ug/L	1.1492	3.118	ug/L	1.1492	36.86%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2167.7	0.034	ug/L	0.1936	0.034	ug/L	0.1936	567.40%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	125.9	0.594	ug/L	0.2872	0.594	ug/L	0.2872	48.36%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3350.6	473.7	ug/L	4.90	473.7	ug/L	4.90	1.03%
QC value within limits for Tl 190.801 Recovery = 94.73%								
V 292.402	136134.1	476.5	ug/L	0.60	476.5	ug/L	0.60	0.13%
QC value within limits for V 292.402 Recovery = 95.31%								
Zn 206.200	95809.2	912.1	ug/L	3.72	912.1	ug/L	3.72	0.41%
QC value within limits for Zn 206.200 Recovery = 91.21%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 130103RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 01/03/13 12:37:45 PM
Data Type: Reprocessed on 01/03/13 3:18:34 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 130103RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	68650.8	506.9	ug/L	5.09	506.9	ug/L	5.09	1.01%
QC value within limits for Ag 338.289 Recovery = 101.37%								
Al 308.215	25277.0	20000	ug/L	275.4	20000	ug/L	275.4	1.38%
QC value within limits for Al 308.215 Recovery = 100.02%								
As 188.979	6108.0	1028	ug/L	5.2	1028	ug/L	5.2	0.51%
QC value within limits for As 188.979 Recovery = 102.82%								
B	2685.9	1037	ug/L	15.8	1037	ug/L	15.8	1.52%
QC value within limits for B Recovery = 103.67%								
Ba 233.527	186534.2	1031	ug/L	11.5	1031	ug/L	11.5	1.12%
QC value within limits for Ba 233.527 Recovery = 103.08%								
Be 313.107	7364070.1	1059	ug/L	16.3	1059	ug/L	16.3	1.54%
QC value within limits for Be 313.107 Recovery = 105.93%								
Ca 315.887	421413.3	49950	ug/L	187.2	49950	ug/L	187.2	0.37%
QC value within limits for Ca 315.887 Recovery = 99.91%								
Cd 214.440	417168.7	1046	ug/L	11.1	1046	ug/L	11.1	1.06%
QC value within limits for Cd 214.440 Recovery = 104.56%								
Co 228.616	82214.0	1040	ug/L	10.4	1040	ug/L	10.4	1.00%
QC value within limits for Co 228.616 Recovery = 104.01%								
Cr 267.716	164022.7	1043	ug/L	10.3	1043	ug/L	10.3	0.99%
QC value within limits for Cr 267.716 Recovery = 104.31%								
Cu 327.393	97510.1	1012	ug/L	14.2	1012	ug/L	14.2	1.40%
QC value within limits for Cu 327.393 Recovery = 101.21%								
Fe 273.955	591886.6	20720	ug/L	217.6	20720	ug/L	217.6	1.05%
QC value within limits for Fe 273.955 Recovery = 103.62%								
K 766.490	45670.2	20400	ug/L	116.6	20400	ug/L	116.6	0.57%
QC value within limits for K 766.490 Recovery = 101.98%								
Mg 285.213	684292.8	50670	ug/L	133.0	50670	ug/L	133.0	0.26%
QC value within limits for Mg 285.213 Recovery = 101.34%								
Mn 257.610	39100.7	1006	ug/L	13.4	1006	ug/L	13.4	1.33%
QC value within limits for Mn 257.610 Recovery = 100.63%								
Mo 202.031	52153.2	1065	ug/L	6.7	1065	ug/L	6.7	0.63%
QC value within limits for Mo 202.031 Recovery = 106.50%								
Na 589.592	342095.4	25880	ug/L	56.2	25880	ug/L	56.2	0.22%
QC value within limits for Na 589.592 Recovery = 103.50%								
Ni 231.604	75481.1	1041	ug/L	9.3	1041	ug/L	9.3	0.90%
QC value within limits for Ni 231.604 Recovery = 104.14%								
P 213.617	42274.7	5207	ug/L	26.8	5207	ug/L	26.8	0.51%
QC value within limits for P 213.617 Recovery = 104.14%								
Pb 220.353	18176.0	1050	ug/L	10.8	1050	ug/L	10.8	1.02%
QC value within limits for Pb 220.353 Recovery = 105.04%								
Sb 206.836	7269.6	1037	ug/L	6.9	1037	ug/L	6.9	0.67%
QC value within limits for Sb 206.836 Recovery = 103.67%								
Se 196.026	6338.6	1036	ug/L	9.2	1036	ug/L	9.2	0.89%
QC value within limits for Se 196.026 Recovery = 103.60%								
Sn 189.927	9574.4	1032	ug/L	15.0	1032	ug/L	15.0	1.46%
QC value within limits for Sn 189.927 Recovery = 103.15%								
Sr 421.552	1010625.1	1032	ug/L	2.1	1032	ug/L	2.1	0.20%
QC value within limits for Sr 421.552 Recovery = 103.22%								
Ti 337.279	32060.4	1009	ug/L	14.0	1009	ug/L	14.0	1.39%
QC value within limits for Ti 337.279 Recovery = 100.92%								
Tl 190.801	7317.7	1034	ug/L	10.1	1034	ug/L	10.1	0.98%
QC value within limits for Tl 190.801 Recovery = 103.45%								
V 292.402	275657.7	1053	ug/L	10.3	1053	ug/L	10.3	0.98%
QC value within limits for V 292.402 Recovery = 105.33%								
Zn 206.200	109433.0	1057	ug/L	10.1	1057	ug/L	10.1	0.95%
QC value within limits for Zn 206.200 Recovery = 105.72%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 130103RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 01/03/13 12:41:26 PM
Data Type: Reprocessed on 01/03/13 3:18:35 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 130103RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	100.5	0.742	ug/L	0.1292	0.742	ug/L	0.1292	17.41%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	24.6	19.46	ug/L	5.493	19.46	ug/L	5.493	28.23%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	9.4	1.590	ug/L	0.8971	1.590	ug/L	0.8971	56.42%
QC value within limits for As 188.979 Recovery = Not calculated								
B	13.2	4.834	ug/L	1.3409	4.834	ug/L	1.3409	27.74%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	16.7	0.091	ug/L	0.0308	0.091	ug/L	0.0308	33.91%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	327.8	0.047	ug/L	0.0232	0.047	ug/L	0.0232	49.29%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	38.9	4.611	ug/L	0.4888	4.611	ug/L	0.4888	10.60%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	24.1	0.061	ug/L	0.0335	0.061	ug/L	0.0335	55.23%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-3.7	-0.048	ug/L	0.2847	-0.048	ug/L	0.2847	599.17%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-5.4	-0.033	ug/L	0.0548	-0.033	ug/L	0.0548	165.26%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	165.6	1.719	ug/L	0.9097	1.719	ug/L	0.9097	52.92%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	148.9	5.187	ug/L	0.4175	5.187	ug/L	0.4175	8.05%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	60.0	26.82	ug/L	66.759	26.82	ug/L	66.759	248.96%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	51.9	3.850	ug/L	0.3791	3.850	ug/L	0.3791	9.85%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	7.9	0.204	ug/L	0.1937	0.204	ug/L	0.1937	95.06%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	29.7	0.606	ug/L	0.1768	0.606	ug/L	0.1768	29.19%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	349.6	26.45	ug/L	4.815	26.45	ug/L	4.815	18.20%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-6.6	-0.092	ug/L	0.0548	-0.092	ug/L	0.0548	59.77%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	6.1	0.753	ug/L	0.7657	0.753	ug/L	0.7657	101.73%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	0.4	0.024	ug/L	0.3207	0.024	ug/L	0.3207	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	5.9	0.840	ug/L	0.3077	0.840	ug/L	0.3077	36.61%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-1.2	-0.200	ug/L	4.7038	-0.200	ug/L	4.7038	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	10.4	1.116	ug/L	0.2043	1.116	ug/L	0.2043	18.30%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-19.5	-0.020	ug/L	0.0286	-0.020	ug/L	0.0286	143.25%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	21.6	0.679	ug/L	0.3375	0.679	ug/L	0.3375	49.67%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	13.6	1.918	ug/L	0.3849	1.918	ug/L	0.3849	20.06%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	172.6	0.654	ug/L	0.2918	0.654	ug/L	0.2918	44.61%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	37.4	0.358	ug/L	0.2101	0.358	ug/L	0.2101	58.62%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 20
Sample ID: CCV2 130103RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 01/03/13 1:27:39 PM
Data Type: Reprocessed on 01/03/13 3:18:44 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 130103RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	53023.4	391.5	ug/L	3.47	391.5	ug/L	3.47	0.89%
QC value within limits for Ag 338.289 Recovery = 104.39%								
Al 308.215	17982.6	14230	ug/L	224.2	14230	ug/L	224.2	1.58%
QC value within limits for Al 308.215 Recovery = 94.88%								
As 188.979	4712.4	793.3	ug/L	0.17	793.3	ug/L	0.17	0.02%
QC value within limits for As 188.979 Recovery = 105.77%								
B	1879.6	729.0	ug/L	7.13	729.0	ug/L	7.13	0.98%
QC value within limits for B Recovery = 97.20%								
Ba 233.527	141705.7	783.1	ug/L	8.85	783.1	ug/L	8.85	1.13%
QC value within limits for Ba 233.527 Recovery = 104.42%								
Be 313.107	5624938.5	809.1	ug/L	8.25	809.1	ug/L	8.25	1.02%
QC value within limits for Be 313.107 Recovery = 107.88%								
Ca 315.887	298662.3	35400	ug/L	208.1	35400	ug/L	208.1	0.59%
QC value within limits for Ca 315.887 Recovery = 94.41%								
Cd 214.440	318322.2	797.8	ug/L	7.66	797.8	ug/L	7.66	0.96%
QC value within limits for Cd 214.440 Recovery = 106.38%								
Co 228.616	62903.2	795.8	ug/L	7.87	795.8	ug/L	7.87	0.99%
QC value within limits for Co 228.616 Recovery = 106.11%								
Cr 267.716	125210.0	796.3	ug/L	8.24	796.3	ug/L	8.24	1.03%
QC value within limits for Cr 267.716 Recovery = 106.17%								
Cu 327.393	74186.5	770.0	ug/L	14.75	770.0	ug/L	14.75	1.92%
QC value within limits for Cu 327.393 Recovery = 102.67%								
Fe 273.955	448460.8	15700	ug/L	157.4	15700	ug/L	157.4	1.00%
QC value within limits for Fe 273.955 Recovery = 104.68%								
K 766.490	35507.3	15860	ug/L	140.3	15860	ug/L	140.3	0.88%
QC value within limits for K 766.490 Recovery = 105.72%								
Mg 285.213	489203.6	36230	ug/L	168.5	36230	ug/L	168.5	0.47%
QC value within limits for Mg 285.213 Recovery = 96.60%								
Mn 257.610	27970.6	719.9	ug/L	12.57	719.9	ug/L	12.57	1.75%
QC value within limits for Mn 257.610 Recovery = 95.99%								
Mo 202.031	38599.3	788.2	ug/L	8.68	788.2	ug/L	8.68	1.10%
QC value within limits for Mo 202.031 Recovery = 105.10%								
Na 589.592	261250.4	19760	ug/L	99.5	19760	ug/L	99.5	0.50%
QC value within limits for Na 589.592 Recovery = 105.39%								
Ni 231.604	57681.2	795.9	ug/L	8.39	795.9	ug/L	8.39	1.05%
QC value within limits for Ni 231.604 Recovery = 106.12%								
P 213.617	31922.2	3932	ug/L	53.1	3932	ug/L	53.1	1.35%
QC value within limits for P 213.617 Recovery = 104.85%								
Pb 220.353	13911.1	803.9	ug/L	2.45	803.9	ug/L	2.45	0.30%
QC value within limits for Pb 220.353 Recovery = 107.19%								
Sb 206.836	5601.0	798.7	ug/L	3.34	798.7	ug/L	3.34	0.42%
QC value within limits for Sb 206.836 Recovery = 106.50%								
Se 196.026	4915.3	803.3	ug/L	1.84	803.3	ug/L	1.84	0.23%
QC value within limits for Se 196.026 Recovery = 107.11%								
Sn 189.927	7300.6	786.6	ug/L	2.75	786.6	ug/L	2.75	0.35%
QC value within limits for Sn 189.927 Recovery = 104.87%								
Sr 421.552	770278.7	786.8	ug/L	4.05	786.8	ug/L	4.05	0.51%
QC value within limits for Sr 421.552 Recovery = 104.90%								
Ti 337.279	23525.6	740.5	ug/L	11.56	740.5	ug/L	11.56	1.56%
QC value within limits for Ti 337.279 Recovery = 98.74%								
Tl 190.801	5646.8	798.3	ug/L	2.76	798.3	ug/L	2.76	0.35%
QC value within limits for Tl 190.801 Recovery = 106.43%								
V 292.402	210091.5	802.5	ug/L	8.94	802.5	ug/L	8.94	1.11%
QC value within limits for V 292.402 Recovery = 107.00%								
Zn 206.200	83365.6	805.3	ug/L	6.83	805.3	ug/L	6.83	0.85%
QC value within limits for Zn 206.200 Recovery = 107.38%								

All analyte(s) passed QC.

Sequence No.: 21 Autosampler Location: 2
Sample ID: CCB 130103RJS I:PB O:RJS Date Collected: 01/03/13 1:35:21 PM
Analyst: Data Type: Reprocessed on 01/03/13 3:18:45 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB 130103RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	55.6	0.411	ug/L	0.3410	0.411	ug/L	0.3410	83.04%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	0.5	0.364	ug/L	8.4905	0.364	ug/L	8.4905	>999.9%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.9	0.827	ug/L	0.1999	0.827	ug/L	0.1999	24.15%
QC value within limits for As 188.979 Recovery = Not calculated								
B	12.0	4.367	ug/L	3.1051	4.367	ug/L	3.1051	71.11%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	14.5	0.080	ug/L	0.0236	0.080	ug/L	0.0236	29.44%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	161.0	0.023	ug/L	0.0233	0.023	ug/L	0.0233	100.81%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	786.0	93.19	ug/L	8.631	93.19	ug/L	8.631	9.26%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 214.440	14.9	0.037	ug/L	0.0312	0.037	ug/L	0.0312	84.31%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-24.2	-0.309	ug/L	0.1745	-0.309	ug/L	0.1745	56.55%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-59.9	-0.380	ug/L	0.0540	-0.380	ug/L	0.0540	14.21%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	47.8	0.496	ug/L	0.5796	0.496	ug/L	0.5796	116.83%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	38.2	1.317	ug/L	0.5771	1.317	ug/L	0.5771	43.83%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	206.1	92.09	ug/L	38.520	92.09	ug/L	38.520	41.83%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	63.7	4.716	ug/L	0.8626	4.716	ug/L	0.8626	18.29%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	16.5	0.423	ug/L	0.1129	0.423	ug/L	0.1129	26.68%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	5.5	0.111	ug/L	0.1713	0.111	ug/L	0.1713	153.75%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	917.5	69.41	ug/L	3.921	69.41	ug/L	3.921	5.65%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-6.3	-0.088	ug/L	0.1829	-0.088	ug/L	0.1829	207.49%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	350.1	43.13	ug/L	4.818	43.13	ug/L	4.818	11.17%
QC value greater than the upper limit for P 213.617 Recovery = Not calculated								
Pb 220.353	-1.2	-0.069	ug/L	0.3173	-0.069	ug/L	0.3173	458.81%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	10.6	1.517	ug/L	0.3545	1.517	ug/L	0.3545	23.38%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	2.0	0.313	ug/L	0.4307	0.313	ug/L	0.4307	137.78%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	7.2	0.772	ug/L	0.2230	0.772	ug/L	0.2230	28.87%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	36.5	0.037	ug/L	0.1865	0.037	ug/L	0.1865	505.90%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	40.6	1.277	ug/L	0.5761	1.277	ug/L	0.5761	45.12%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	8.3	1.173	ug/L	1.2027	1.173	ug/L	1.2027	102.57%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	96.4	0.358	ug/L	0.6272	0.358	ug/L	0.6272	175.07%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	54.9	0.523	ug/L	0.0726	0.523	ug/L	0.0726	13.88%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	01/03/13	01/03/13	#6010B-130103A-AY72938

Metals SC-Blank-REG MDLs
Printed: 01/04/13 11:46:39 AM

Sequence No.: 12
Sample ID: 130103A-3050-BLK
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 38
Date Collected: 01/03/13 12:46:27 PM
Data Type: Reprocessed on 01/03/13 3:18:36 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 130103A-3050-BLK

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	19.7	0.145	ug/L	0.2892	0.006	mg/kg	0.0116	199.30%
Al 308.215	-0.5	-0.411	ug/L	8.9536	-0.016	mg/kg	0.3581	>999.9%
As 188.979	7.9	1.333	ug/L	1.5800	0.053	mg/kg	0.0632	118.54%
B	10.1	3.752	ug/L	2.7065	0.150	mg/kg	0.1083	72.14%
Ba 233.527	199.1	1.099	ug/L	0.0628	0.044	mg/kg	0.0025	5.72%
Be 313.107	3.8	0.001	ug/L	0.0244	0.000	mg/kg	0.0010	>999.9%
Ca 315.887	222.8	26.40	ug/L	2.540	1.056	mg/kg	0.1016	9.62%
Cd 214.440	143.7	0.361	ug/L	0.0318	0.014	mg/kg	0.0013	8.80%
Co 228.616	15.5	0.195	ug/L	0.0863	0.008	mg/kg	0.0035	44.32%
Cr 267.716	483.6	3.071	ug/L	0.1275	0.123	mg/kg	0.0051	4.15%
Cu 327.393	-8.2	-0.086	ug/L	0.5157	-0.003	mg/kg	0.0206	602.73%
Fe 273.955	633.6	22.24	ug/L	1.030	0.889	mg/kg	0.0412	4.63%
K 766.490	150.6	67.30	ug/L	23.352	2.692	mg/kg	0.9341	34.70%
Mg 285.213	51.5	3.831	ug/L	0.5840	0.153	mg/kg	0.0234	15.25%
Mn 257.610	118.6	3.058	ug/L	0.1326	0.122	mg/kg	0.0053	4.34%
Mo 202.031	70.0	1.429	ug/L	0.4365	0.057	mg/kg	0.0175	30.54%
Na 589.592	653.1	49.41	ug/L	10.701	1.976	mg/kg	0.4280	21.66%
Ni 231.604	-64.7	-0.895	ug/L	0.3363	-0.036	mg/kg	0.0135	37.57%
P 213.617	137.1	16.89	ug/L	0.392	0.675	mg/kg	0.0157	2.32%
Pb 220.353	-48.4	-2.798	ug/L	0.0977	-0.112	mg/kg	0.0039	3.49%
Sb 206.836	-1.2	-0.178	ug/L	1.3772	-0.007	mg/kg	0.0551	774.40%
Se 196.026	6.4	1.043	ug/L	0.8004	0.042	mg/kg	0.0320	76.73%
Sn 189.927	-9.9	-1.068	ug/L	1.0737	-0.043	mg/kg	0.0429	100.51%
Sr 421.552	153.4	0.157	ug/L	0.1136	0.006	mg/kg	0.0045	72.57%
Ti 337.279	45.4	1.429	ug/L	0.1632	0.057	mg/kg	0.0065	11.42%
Tl 190.801	-9.9	-1.403	ug/L	0.1194	-0.056	mg/kg	0.0048	8.51%
V 292.402	104.8	0.436	ug/L	0.4026	0.017	mg/kg	0.0161	92.37%
Zn 206.200	52.5	0.531	ug/L	0.1638	0.021	mg/kg	0.0066	30.84%

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.3	103	80-120	01/03/13	01/03/13	#6010B-130103A-AY72938

Comments: _____

Sequence No.: 13
Sample ID: 130103A-3050-LCS
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 39
Date Collected: 01/03/13 12:50:48 PM
Data Type: Reprocessed on 01/03/13 3:18:37 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 130103A-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	13495.5	99.64	ug/L	0.907	3.986	mg/kg	0.0363	0.91%
Al 308.215	2349.3	1861	ug/L	15.6	74.44	mg/kg	0.624	0.84%
As 188.979	1455.3	245.0	ug/L	0.83	9.799	mg/kg	0.0334	0.34%
B	630.4	231.5	ug/L	4.56	9.260	mg/kg	0.1823	1.97%
Ba 233.527	43958.7	245.0	ug/L	0.64	9.799	mg/kg	0.0258	0.26%
Be 313.107	355515.2	51.14	ug/L	0.337	2.046	mg/kg	0.0135	0.66%
Ca 315.887	199015.2	23590	ug/L	178.9	943.7	mg/kg	7.15	0.76%
Cd 214.440	21375.6	53.70	ug/L	0.121	2.148	mg/kg	0.0048	0.23%
Co 228.616	20245.8	256.1	ug/L	0.82	10.25	mg/kg	0.033	0.32%
Cr 267.716	41861.2	266.0	ug/L	1.06	10.64	mg/kg	0.042	0.40%
Cu 327.393	23791.3	246.9	ug/L	1.31	9.877	mg/kg	0.0525	0.53%
Fe 273.955	30325.8	1044	ug/L	1.9	41.75	mg/kg	0.075	0.18%
K 766.490	11017.3	4923	ug/L	36.8	196.9	mg/kg	1.47	0.75%
Mg 285.213	322236.6	23850	ug/L	163.7	954.0	mg/kg	6.55	0.69%
Mn 257.610	9620.2	246.8	ug/L	1.31	9.873	mg/kg	0.0523	0.53%
Mo 202.031	12883.5	262.7	ug/L	0.49	10.51	mg/kg	0.020	0.19%
Na 589.592	325705.9	24650	ug/L	156.8	986.0	mg/kg	6.27	0.64%
Ni 231.604	19229.3	265.3	ug/L	0.81	10.61	mg/kg	0.032	0.30%
P 213.617	16173.1	1992	ug/L	9.1	79.68	mg/kg	0.363	0.46%
Pb 220.353	4446.8	257.0	ug/L	1.03	10.28	mg/kg	0.041	0.40%
Sb 206.836	1663.3	237.2	ug/L	0.21	9.488	mg/kg	0.0086	0.09%
Se 196.026	1457.8	235.6	ug/L	2.93	9.426	mg/kg	0.1172	1.24%
Sn 189.927	2446.6	263.6	ug/L	0.94	10.54	mg/kg	0.038	0.36%
Sr 421.552	246131.9	251.3	ug/L	1.29	10.05	mg/kg	0.052	0.51%
Ti 337.279	8025.1	252.4	ug/L	1.14	10.10	mg/kg	0.046	0.45%
Tl 190.801	1770.3	250.3	ug/L	1.21	10.01	mg/kg	0.048	0.48%
V 292.402	68805.8	263.9	ug/L	0.77	10.56	mg/kg	0.031	0.29%
Zn 206.200	52942.5	509.7	ug/L	2.18	20.39	mg/kg	0.087	0.43%

Metals Standards Log Book # 36 Page # 065

RAS 1/3/13
6010B/C
(A)

1%HNO3 / 5%HCl BLK				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCl	EMD	UN1789-265	10/22/12
20 mL	HNO3	JT BAKER	L10023-266	10/24/12
Prepared in 2000 ml DI Water				
STD 1 / LDL 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
STD 3 / HDL 6010B/6010C				
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15
Prepared in 100 ml 1%HNO3 / 5%HCl				
STD 2 / CCV1 6010B/6010C/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
25mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	
CCV2 6010B/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
15mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICSAB				
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICV				
0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 1%HNO3/5%HCl				

RAS 1/3/13

RAS 1/3/13
6020/6020A
(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A
Prep Date: Today
Expires. 1 week

Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL Di Water
Lot #L12065
20 mL HCL / 2000mL Di Water
Lot #51358

Internal Standard Mix: Prep 01/02/2013

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	ABS STDS	092712-31505
50 uL	CCV-B	ABS STDS	092712-31506
50 uL	CCV-C	ABS STDS	092712-31507

Prepared in 100 mL of 1% HNO3/1.0% HCL

Standard 3

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	ABS STDS	092712-31505
25 uL	CCV-B	ABS STDS	092712-31506
25 uL	CCV-C	ABS STDS	092712-31507

Prepared in 100 mL of 1% HNO3/1 0% HCL

Intermediate-Sb
100 uL of Sb STD (CPI 12A011-30298) in 10 mL of 1% HNO3/1 0% HCL

ICV-Sb
100 uL of Intermediate-Sb in 10 mL of 1% HNO3/1.0% HCL

BC 1/3/13

Standard 2

Amount	STD
500 uL	Standard 4

Prepared in 50 mL of 1% HNO3/1.0% HCL

Standard 1

Amount	STD
50 uL	Standard 4

Prepared in 50 mL of 1% HNO3/1.0% HCL

ICP-MS ICV

Amount	STD		
50 uL	QCS ICV A	CPI	11C184-30611
50 uL	QCS ICV B	CPI	11C184-30612

Prepared in 50 mL of 1% HNO3/1.0% HCL

ICSA Prep:

1 mL	ICSA	CPI	121082-31309

Prepared in 5 mL of 1% HNO3/1 0% HCL

ICSAB Prep:

1mL	ICSA		
0.025mL	INT	O2Si	1032370-30265

Prepared in 5 mL of 1% HNO3/1.0% HCL

ICP-LDR

Amount	STD		
50 uL	CCV-A	ABS STDS	092712-31505
50 uL	CCV-B	ABS STDS	092712-31506
50 uL	CCV-C	ABS STDS	092712-31507

Prepared in 10 mL of 1% HNO3/1.0% HCL

M3050

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 130103A **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 1039704-31514		
Spiked ID 2	LCSW LOT# 1039705-31515		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	01/03/13 8:00:00 AM
Witnessed By	BC	Date:	01/03/13 8:00:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	01/03/13 14:00

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	130103A Blk				2.50g	100mL	01/03/13 8:00	equip: Modblock4
2	130103A LCS		1mL	1+2	2.50g	100mL	01/03/13 8:00	equip: Modblock4
3	AY72937	AY72937M01			2.55g	100mL	01/03/13 8:00	equip: Modblock4
4	AY72938	AY72938M01			2.47g	100mL	01/03/13 8:00	equip: Modblock4
5	AY72938 MS	AY72938M01	2mL	1+2	2.47g	100mL	01/03/13 8:00	equip: Modblock4
6	AY72938 MSD	AY72938M01	2mL	1+2	2.47g	100mL	01/03/13 8:00	equip: Modblock4

DRA 1/4/13

olvent and Lot#
1 HNO3 11-8-12
NO3 J.T.B. L12065 0288
2O2 J.T.B. K20J00 0254
CL BDH # 4112030 0287

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	DRA
Date	1/4/13
Time	8:45
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	01/03/13 10:54:31 AM

Reviewed By: **Date:**

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	03 Jan 2013	11:59	CalBlk 130103RJS I:PB O:R		130103A6010	1.
2	03 Jan 2013	12:04	STD 1 130103RJS I:PB O:RJ		130103A6010	1.
3	03 Jan 2013	12:08	STD 2 130103RJS I:PB O:RJ		130103A6010	1.
4	03 Jan 2013	12:11	STD 3 130103RJS I:PB O:RJ		130103A6010	1.
5	03 Jan 2013	12:14	ICV 130103RJS I:PB O:RJS		130103A6010	1.
6	03 Jan 2013	12:20	ICB 130103RJS I:PB O:RJS		130103A6010	1.
8	03 Jan 2013	12:29	ICSA 130103RJS I:PB O:RJS		130103A6010	1.
9	03 Jan 2013	12:34	ICSAB 130103RJS I:PB O:RJ		130103A6010	1.
10	03 Jan 2013	12:37	CCV1 130103RJS I:PB O:RJS		130103A6010	1.
11	03 Jan 2013	12:41	CCB 130103RJS I:PB O:RJS		130103A6010	1.
12	03 Jan 2013	12:46	130103A-3050-BLK		130103A6010	1.
13	03 Jan 2013	12:50	130103A-3050-LCS		130103A6010	1.
14	03 Jan 2013	12:55	AY72937M01		130103A6010	1.
15	03 Jan 2013	13:00	AY72938M01		130103A6010	1.
18	03 Jan 2013	13:16	AY72938M01-A		130103A6010	1.
20	03 Jan 2013	13:27	CCV2 130103RJS I:PB O:RJS		130103A6010	1.
21	03 Jan 2013	13:35	CCB 130103RJS I:PB O:RJS		130103A6010	1.

Wetlab Results

ARF: 69526

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
APPL ID: AY72938	-Client Sample ID: GT12033L		-Sample Collection Date: 12/12/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	71.2	2.0	%	01/02/13	01/03/13

Printed: 01/03/13 8:52:48 AM

WETLAB

Sample/Sample Duplicate Results

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Project: 748350.02000 CSSA

Sample ID: AY72938
Client ID: GT12033L

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

ARF: 69526

Method	Analyte	Sample ID	Sample Result	Sample Dup Result	RPD	RPD Max	PQL	Units	Sample Extract Date	Sample Analysis Date	Sample Dup Extract Date	Sample Dup Analysis Date
CLP MOIS	MOISTURE	AY72938	71.2	71.1	0.1	20	2.0	%	01/02/13	01/03/13	01/02/13	01/03/13

Printed: 01/03/13 8:52:40 AM

% Moisture

Batch: QCG 130102-M004596

Method: CLP 4.0

Date: 01/02/13 16:09

Sample	Container	Pan (g)	Pan+Wet (g)	Pan+Dry 1 (g)	Pan+Dry 2 (g)	Moisture (%)	Comments
AY72938D	m01	0.8348 01/02/13 16:09	7.2321 01/02/13 16:10	2.6830 01/03/13 08:11	2.6829 01/03/13 08:11	71.111	ay72938m01
AY72938	m01	0.8345 01/02/13 16:07	7.0006 01/02/13 16:09	2.6109 01/03/13 08:11	2.6110 01/03/13 08:11	71.189	ay72938m01

Date/Time InOven@104°C	Date/Time OutOven@104°C	Date/Time InOven@104°C	Date/Time OutOven@104°C
01/02/13 4:11:00 PM			01/03/13 8:11:00 AM

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
1/2/13	BB	Mettler AT200	0.5g	0.4998 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0004 g	19.9800	20.0200	
		Mettler AT200	50g	50.0008 g	49.9500	50.0500	
		Mettler AT200	100g	100.0017 g	99.9000	100.1000	
		Mettler AT200	150g	150.0024 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.01 g	1960.00	2040.00	
1/3/13	BB						Yes
		Mettler AT200	0.5g	0.4999 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0005 g	19.9800	20.0200	
		Mettler AT200	50g	50.0010 g	49.9500	50.0500	
		Mettler AT200	100g	100.0018 g	99.9000	100.1000	
		Mettler AT200	150g	150.0026 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.99 g	1960.00	2040.00	
		Mettler AT200	0.5g	g	0.4995	0.5005	
		Mettler AT200	1g	g	0.9990	1.0010	
		Mettler AT200	20g	g	19.9800	20.0200	
		Mettler AT200	50g	g	49.9500	50.0500	
		Mettler AT200	100g	g	99.9000	100.1000	
		Mettler AT200	150g	g	149.8500	150.1500	
		OHAUS ARC120	0.1g	g	0.08	0.12	
		OHAUS ARC120	0.5g	g	0.48	0.52	
		OHAUS ARC120	1g	g	0.98	1.02	
		OHAUS ARC120	100g	g	98.00	102.00	
		OHAUS ARC120	1kg	g	980.00	1020.00	
		OHAUS ARC120	2kg	g	1960.00	2040.00	
		Mettler AT200	0.5g	g	0.4995	0.5005	
		Mettler AT200	1g	g	0.9990	1.0010	
		Mettler AT200	20g	g	19.9800	20.0200	
		Mettler AT200	50g	g	49.9500	50.0500	
		Mettler AT200	100g	g	99.9000	100.1000	
		Mettler AT200	150g	g	149.8500	150.1500	
		OHAUS ARC120	0.1g	g	0.08	0.12	
		OHAUS ARC120	0.5g	g	0.48	0.52	
		OHAUS ARC120	1g	g	0.98	1.02	
		OHAUS ARC120	100g	g	98.00	102.00	
		OHAUS ARC120	1kg	g	980.00	1020.00	
		OHAUS ARC120	2kg	g	1960.00	2040.00	

Laboratory Report

Parsons

Project #: 748350.02000 CSSA

ARF: 69530

Sample collected: December 12, 2012

APPL, Inc.

Data Validatable Package

for

Project #: 748350.02000 CSSA

ARF 69530

TABLE OF CONTENTS

LABORATORY NAME: *APPL, Inc.*

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CASE NARRATIVE

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

EPA Method 6010B
Metals

Case Narrative

ARF: 69530

Project: 748350.02000 CSSA

California State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Texas Certificate Number: T104704242-10-3

Results in this report apply to the sample analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

The sample was received December 14, 2012, at 1.0°C. The sample was assigned Analytical Request Form (ARF) number 69530. The sample number and requested analyses were compared to the chain of custody. No exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
GT12033M	AY72939	MISC	12/12/12	12/14/12

Percent moisture was determined using CLP 4.0.

Digestion Information:

The meat sample was frozen and homogenized according to APPL's SOP PRE003. An aliquot of the homogenized sample was digested according to EPA method 3050B. Since the laboratory was unable to obtain a similar clean matrix, the blank and the LCS were digested according to APPL's SOP PRE3050B. No other exception was encountered. All holding times were met.

Analysis Information:

Samples:

The sample was analyzed according to EPA method 6010B using a Perkin Elmer Optima 5300DV ICP.

Calibrations:

Calibrations were performed according to the method for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard. All other calibration acceptance criteria were met.

Blanks:

No target metal was detected above the reporting limit (RL) in the method blank.

Spikes:

Laboratory Control Spike (LCS), post-digestion spike (PDS), and dilution test were used for quality assurance. All LCS acceptance criteria were met.

Sample GT12033M was selected by the laboratory for dilution test and PDS analysis. The dilution test was not applicable. The PDS met acceptance criteria.

Summary:

No analytical exception is noted. The data generated are acceptable.

CERTIFICATION

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. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

12-28-12

Sharon Dehmlow, Laboratory Director / Date

APPL Inc.
Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer.
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other – (See case narrative)
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel
U	Not detected
Y	Percent difference between primary and confirmation column > 40%

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 69530

Client: **Parsons**
Address: **8000 Centre Park Drive Ste 200**
Austin, TX 78754
Attn: **Tammy Chang**
Phone: **512-719-6092** Fax: **512-719-6099**
Job: **748350.02000 CSSA**
PO #: **748350.30002 (prime *G012)**
Chain of Custody (Y/N): **Y** # **121312APPFA**
RAD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **7 DAYS**

Received by: **WLA**
Date Received: **12/14/12** Time: **09:30**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-6**
Chest Temp(s): **1.0°C**
Color: **A_FREZ**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Diane Anderson** *np*
QC Report Type: **DVP4/AFCEE/ERPIMS/TX**
Due Date: **12/21/12**

Comments:
Prelim muscle (meat) data due in 7 calendar days; final report due in 14 calendar days.
pdf ARF to Tammy & Pam; send 1 DVP3 HC & send DVP3 & DVP4 on CD to Tammy.

Case Narrative. CSSA QAPP. Only report MS/MSD when requested.
Report results on APPL forms: U to the RL-no J values;
report results in wet weight (without moisture correction)
Wait to do moisture analysis after metals analysis.
EDD: ERPIMS 4 Lab PC4 checked TXF to Pamela.Ford@parsons.com

12-17 Sent ARF

Sample Distribution:
Metals: 1-$6010BDODS(Pb)
Wetlab: 1-MOIST
Other: 1-_M3050

Charges:

Invoice To:
PARSONS GOV'T SERV.
8000 Centre Park Drive Ste 200
Austin, TX 78754-5140
Attn: Ellen Felfe

	Client ID	APPL ID	Sampled	Analyses Requested
1.	GT12033M	AY72939M	12/12/12 19:30	$6010BDODS(Pb), MOIST

APPL Sample Receipt Form

ARF# **69530**

Sample	Container Type	Count	pH	Sample	Container Type	Count	pH
AY72939	[35] Plastic Bag	1	NA				

Camp Stanley Storage Activity Chain Of Custody

69526/69530

1.0°C

COC ID:	121312APPFA	Relinquish_Date:	12/13/2012	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	JDB	LabCode:	APPF
Job Number:	748350.02000	Relinquish_Time:	4:30 PM	Carrier:	FedEx
Creation Date:	12/13/2012	Collection Team:	SE	Airbill Carrier:	876436444190
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): Sam Elliott

LOCID: **GT12033B** LOGDATE: **12/12/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **19:30** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12033B_121212_N1930** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12033L** LOGDATE: **12/12/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **19:30** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12033L_121212_N1930** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

LOCID: **GT12033M** LOGDATE: **12/12/2012** MATRIX: **TA** TBLOT:
SBD: **0** LOGTIME: **19:30** SACODE: **N** SMCODE: **G** ABLOT:
SED: **0** FLDSAMPID **GT12033M_121212_N1930** EBLOT: Containers: 1
Remarks:
Analysis Required: SW6010B LEAD

Relinquished by: _____ Date 12-13-12 Time 1700
Recieved by: _____ Date _____ Time _____

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date _____ Time _____

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date 12/14/12 Time 0930

COOLER RECEIPT FORM

1) Project: 748350.02000 CSSA Date Received: 12/14/12

2) Coolers: Number of Coolers: 1

3) (YES) NO Were coolers and samples screened for radioactivity?

4) (YES) NO Were custody seals on outside of cooler? How many? 1 Date on seal? 12/13/12

5) Name on seal? See Label

6) (YES) NO NA Were custody seals unbroken and intact at the time of arrival?

7) (YES) NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex

8) Shipping slip numbers: 1) 8764 3644 4190 2) _____ 3) _____

9) (YES) NO NA Was the shipping slip scanned into the database?

10) YES (NO) NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Ziplor in wet ice

12) YES NO (NA) For hand delivered samples was sufficient ice present to start the cooling process?

13) (YES) NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: JS297 Correction factor: 0

15) Cooler temp(s): 1) 1.0°C 2) _____ 3) _____ 4) _____ 5) _____ 6) _____ 7) _____ 8) _____

Chain of custody:

16) (YES) NO Was a chain of custody received?

17) (YES) NO Were the custody papers signed in the appropriate places?

18) (YES) NO Was the project identifiable from custody papers?

19) (YES) NO Did the chain of custody include date and time of sampling?

20) (YES) NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) (YES) NO Were container labels in good condition?

22) (YES) NO Was the client ID on the label?

23) (YES) NO Was the date of sampling on the label?

24) (YES) NO Was the time of sampling on the label?

25) (YES) NO Did all container labels agree with custody papers?

Sample Containers:

26) (YES) NO Were all containers sealed in separate bags?

27) (YES) NO Did all containers arrive unbroken?

28) YES (NO) Was there any leakage from samples?

29) YES (NO) Were any of the lids cracked or broken?

30) (YES) NO Were correct containers used for the tests indicated?

31) (YES) NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO (NA) Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea: _____

Smaller than a pea: _____

Preservation & Hold time:

33) (YES) NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO (NA) Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO (NA) Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO (NA) Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO (NA) Unpreserved VOA Vials received? _____

38) YES NO (NA) Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF? _____

CUSTODY SEAL

APPL, Inc. (559) 275-2175

Initials JP Date 12.13.12

Lab notified if pH was not adequate: _____

Deficiencies: _____

Signature of personnel receiving samples: _____ Second reviewer: _____

Signature of project manager notified: _____ Date and Time of notification: _____

Name of client notified: _____ Date and Time of notification: _____

Information given to client: _____

_____ by whom (Initials): _____

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/17/12	12/18/12	#6010B-121217A-AY72939

Metals SC-Blank-REG MDLs
Printed: 12/19/12 11:29:31 AM

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.2	102	80-120	12/17/12	12/18/12	#6010B-121217A-AY72939

Comments: _____

METALS
Sample Data

APPL, INC.

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT12033M
Sample Collection Date: 12/12/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69530
APPL ID: AY72939

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	12/17/12	12/18/12

Printed: 12/19/12 11:29:33 AM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 19
Sample ID: AY72939M01
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 85
Date Collected: 12/18/12 12:44:47 PM
Data Type: Reprocessed on 12/18/12 2:13:50 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72939M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	12.4	0.101	ug/L	0.6280	0.004	mg/kg	0.0251	619.88%
Al 308.215	38.6	24.49	ug/L	3.561	0.980	mg/kg	0.1424	14.54%
As 188.979	11.5	2.561	ug/L	1.4155	0.102	mg/kg	0.0566	55.27%
B	40.9	12.44	ug/L	2.225	0.498	mg/kg	0.0890	17.88%
Ba 233.527	216.4	1.077	ug/L	0.0672	0.043	mg/kg	0.0027	6.24%
Be 313.107	-126.6	-0.022	ug/L	0.0218	-0.001	mg/kg	0.0009	98.55%
Ca 315.887	11122.8	1022	ug/L	8.6	40.89	mg/kg	0.346	0.85%
Cd 214.440	86.7	0.264	ug/L	0.0434	0.011	mg/kg	0.0017	16.42%
Co 228.616	20.6	0.263	ug/L	0.2092	0.011	mg/kg	0.0084	79.53%
Cr 267.716	5589.3	44.36	ug/L	3.318	1.774	mg/kg	0.1327	7.48%
Cu 327.393	2241.8	26.84	ug/L	1.290	1.074	mg/kg	0.0516	4.80%
Fe 273.955	13009.6	571.2	ug/L	0.63	22.85	mg/kg	0.025	0.11%
K 766.490	165387.2	45450	ug/L	137.5	1818	mg/kg	5.5	0.30%
Mg 285.213	68532.6	3753	ug/L	11.9	150.1	mg/kg	0.48	0.32%
Mn 257.610	151.7	2.877	ug/L	0.0690	0.115	mg/kg	0.0028	2.40%
Mo 202.031	42.0	1.177	ug/L	0.1842	0.047	mg/kg	0.0074	15.64%
Na 589.592	152132.3	11900	ug/L	22.4	476.1	mg/kg	0.90	0.19%
Ni 231.604	-44.4	-0.838	ug/L	0.2563	-0.034	mg/kg	0.0103	30.60%
P 213.617	171850.3	29200	ug/L	256.0	1168	mg/kg	10.2	0.88%
Pb 220.353	-22.0	-1.715	ug/L	0.2562	-0.069	mg/kg	0.0102	14.94%
Sb 206.836	11.3	1.966	ug/L	0.2605	0.079	mg/kg	0.0104	13.25%
Se 196.026	55.3	10.84	ug/L	3.795	0.434	mg/kg	0.1518	35.02%
Sn 189.927	-35.3	-5.713	ug/L	0.3245	-0.229	mg/kg	0.0130	5.68%
Sr 421.552	2108.6	2.268	ug/L	0.0655	0.091	mg/kg	0.0026	2.89%
Ti 337.279	80.5	1.689	ug/L	0.4674	0.068	mg/kg	0.0187	27.67%
Tl 190.801	-2.5	-0.429	ug/L	0.6402	-0.017	mg/kg	0.0256	149.29%
V 292.402	-109.3	-0.281	ug/L	0.1316	-0.011	mg/kg	0.0053	46.92%
Zn 206.200	30178.4	419.2	ug/L	1.32	16.77	mg/kg	0.053	0.31%

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69530 SDG: 69530
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 12/18/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:30	%R(1)	True CCV1	Found 11:53	%R(1)	True CCV2	Found 12:26	%R(1)	
Lead (Pb)	1000	1051	105	1000	1036	104	750	790.1	105	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No: 69530 SDG: 69530
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 12/18/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:30	%R(1)	True CCV1	Found 13:14	%R(1)	True	Found	%R(1)	
Lead (Pb)	1000	1051	105	1000	1045	105				P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69530 SDG: 69530

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 12/18/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	11:35		12:05		12:30		13:22		12:36		
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name:	A.P.P.L. INC.	Contract:	Parsons
ARF No.:	69530	SDG:	69530
ICP ID Number:	Phoebe	ICS Source:	Environmental Express

Analysis Date: 12/18/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 11:43	Sol AB 11:48	%R(1)
Aluminum (Al)	200000	200000	199600	198800	99.4
Calcium (Ca)	200000	200000	200200	199200	99.6
Iron (Fe)	200000	200000	188800	185200	92.6
Magnesium (Mg)	200000	200000	199300	198900	99.5
Lead (Pb)		1000	0.981	951.7	95.2

(1) Control Limits: Metals 80-120

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

GT12033M

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69530 SDG: 69530

Analysis Date: 12/18/12 Concentration Units: mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	18.99		ND		20.000	95.0		

Comments:

12/18/12 12:44 AY72939M01

12/18/12 13:00 AY72939M01-A

Sequence No.: 22
Sample ID: AY72939M01-A
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 88
Date Collected: 12/18/12 1:00:04 PM
Data Type: Reprocessed on 12/18/12 2:13:53 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY72939M01-A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	22775.0	185.9	ug/L	2.27	7.437	mg/kg	0.0906	1.22%
Al 308.215	6136.6	3864	ug/L	13.5	154.5	mg/kg	0.54	0.35%
As 188.979	1942.1	434.0	ug/L	1.13	17.36	mg/kg	0.045	0.26%
B	1944.7	501.3	ug/L	6.73	20.05	mg/kg	0.269	1.34%
Ba 233.527	69804.8	472.8	ug/L	4.80	18.91	mg/kg	0.192	1.01%
Be 313.107	547379.0	95.74	ug/L	1.042	3.830	mg/kg	0.0417	1.09%
Ca 315.887	543530.3	50120	ug/L	487.0	2005	mg/kg	19.5	0.97%
Cd 214.440	28821.3	99.81	ug/L	0.259	3.992	mg/kg	0.0104	0.26%
Co 228.616	31476.1	501.4	ug/L	0.52	20.05	mg/kg	0.021	0.10%
Cr 267.716	63208.2	501.7	ug/L	5.30	20.07	mg/kg	0.212	1.06%
Cu 327.393	44499.5	532.8	ug/L	5.20	21.31	mg/kg	0.208	0.98%
Fe 273.955	57905.7	2506	ug/L	26.1	100.2	mg/kg	1.04	1.04%
K 766.490	205582.9	56490	ug/L	554.5	2260	mg/kg	22.2	0.98%
Mg 285.213	973451.1	53320	ug/L	425.8	2133	mg/kg	17.0	0.80%
Mn 257.610	25577.7	512.6	ug/L	1.84	20.51	mg/kg	0.074	0.36%
Mo 202.031	19482.8	490.0	ug/L	1.29	19.60	mg/kg	0.052	0.26%
Na 589.592	759224.3	59450	ug/L	493.3	2378	mg/kg	19.7	0.83%
Ni 231.604	28295.7	502.7	ug/L	1.20	20.11	mg/kg	0.048	0.24%
P 213.617	187426.6	31850	ug/L	337.3	1274	mg/kg	13.5	1.06%
Pb 220.353	6095.8	474.7	ug/L	4.12	18.99	mg/kg	0.165	0.87%
Sb 206.836	2632.3	456.4	ug/L	0.28	18.26	mg/kg	0.011	0.06%
Se 196.026	2184.5	469.3	ug/L	3.03	18.77	mg/kg	0.121	0.65%
Sn 189.927	3120.0	505.3	ug/L	5.35	20.21	mg/kg	0.214	1.06%
Sr 421.552	487345.9	498.7	ug/L	4.30	19.95	mg/kg	0.172	0.86%
Ti 337.279	21412.6	513.9	ug/L	2.33	20.56	mg/kg	0.093	0.45%
Tl 190.801	2801.1	472.8	ug/L	1.85	18.91	mg/kg	0.074	0.39%
V 292.402	108729.9	499.6	ug/L	4.25	19.98	mg/kg	0.170	0.85%
Zn 206.200	96385.6	1342	ug/L	10.2	53.68	mg/kg	0.407	0.76%

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 121218A6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1 Autosampler Location: 1
Sample ID: CalBlk 121218RJS I:PB O:R Date Collected: 12/18/12 11:09:51 AM
Analyst: Data Type: Reprocessed on 12/18/12 2:13:31 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CalBlk 121218RJS I:PB O:R

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-7.3	69.73	954.47%	[0.00]	ug/L
Al 308.215	110.9	3.84	3.46%	[0.00]	ug/L
As 188.979	-7.0	1.43	20.39%	[0.00]	ug/L
B	6.9	4.13	60.17%	[0.00]	ug/L
Ba 233.527	114.9	5.37	4.67%	[0.00]	ug/L
Be 313.107	2411.1	78.43	3.25%	[0.00]	ug/L
Ca 315.887	-234.3	27.74	11.84%	[0.00]	ug/L
Cd 214.440	387.4	11.74	3.03%	[0.00]	ug/L
Co 228.616	38.4	9.47	24.62%	[0.00]	ug/L
Cr 267.716	1635.3	58.97	3.61%	[0.00]	ug/L
Cu 327.393	653.7	29.83	4.56%	[0.00]	ug/L
Fe 273.955	99.3	11.41	11.48%	[0.00]	ug/L
K 766.490	-263.7	123.09	46.67%	[0.00]	ug/L
Mg 285.213	-33.3	8.23	24.73%	[0.00]	ug/L
Mn 257.610	-27.7	3.77	13.61%	[0.00]	ug/L
Mo 202.031	154.7	6.27	4.05%	[0.00]	ug/L
Na 589.592	156.6	50.33	32.14%	[0.00]	ug/L
Ni 231.604	-185.1	6.14	3.32%	[0.00]	ug/L
P 213.617	32.9	5.86	17.78%	[0.00]	ug/L
Pb 220.353	-45.3	8.82	19.46%	[0.00]	ug/L
Sb 206.836	3.1	5.60	180.46%	[0.00]	ug/L
Se 196.026	-13.1	2.36	18.02%	[0.00]	ug/L
Sn 189.927	-20.2	7.62	37.82%	[0.00]	ug/L
Sr 421.552	877.3	68.47	7.81%	[0.00]	ug/L
Ti 337.279	-343.1	10.48	3.06%	[0.00]	ug/L
Tl 190.801	-15.4	5.61	36.50%	[0.00]	ug/L
V 292.402	-735.6	12.57	1.71%	[0.00]	ug/L
Zn 206.200	-170.7	12.50	7.32%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 121218RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 12/18/12 11:14:10 AM
Data Type: Reprocessed on 12/18/12 2:13:32 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 121218RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	158.0	61.90	39.18%	[1.00]	ug/L
Al 308.215	158.4	8.53	5.39%	[100.00]	ug/L
As 188.979	18.3	0.19	1.03%	[3.50]	ug/L
B	203.6	4.16	2.04%	[50.00]	ug/L
Ba 233.527	749.2	6.14	0.82%	[5.00]	ug/L
Be 313.107	11736.6	272.60	2.32%	[2.00]	ug/L
Ca 315.887	1007.2	28.16	2.80%	[100.00]	ug/L
Cd 214.440	1666.0	18.88	1.13%	[5.00]	ug/L
Co 228.616	326.5	13.23	4.05%	[5.00]	ug/L
Cr 267.716	492.5	26.97	5.48%	[5.00]	ug/L
Cu 327.393	304.1	65.12	21.42%	[5.00]	ug/L
Fe 273.955	1242.6	11.74	0.94%	[50.00]	ug/L
K 766.490	2677.4	101.46	3.79%	[1000.00]	ug/L
Mg 285.213	917.2	7.48	0.82%	[50]	ug/L
Mn 257.610	239.7	7.75	3.23%	[5.00]	ug/L
Mo 202.031	195.8	2.36	1.21%	[5.00]	ug/L
Na 589.592	12720.0	272.94	2.15%	[1000.00]	ug/L
Ni 231.604	303.8	0.39	0.13%	[5.00]	ug/L
P 213.617	144.3	3.54	2.46%	[25.00]	ug/L
Pb 220.353	33.9	7.97	23.50%	[3.00]	ug/L
Sb 206.836	31.7	3.73	11.78%	[5.00]	ug/L
Se 196.026	23.9	8.52	35.63%	[5.00]	ug/L
Sn 189.927	27.5	5.27	19.19%	[5.00]	ug/L
Sr 421.552	5004.7	272.04	5.44%	[5.00]	ug/L
Ti 337.279	223.6	16.23	7.26%	[5.00]	ug/L
Tl 190.801	34.5	1.63	4.72%	[5.00]	ug/L
V 292.402	1115.0	28.02	2.51%	[5.00]	ug/L
Zn 206.200	1588.1	3.70	0.23%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 121218RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/18/12 11:18:34 AM
Data Type: Reprocessed on 12/18/12 2:13:33 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 121218RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	61356.9	723.58	1.18%	[500.0]	ug/L
Al 308.215	31861.9	129.02	0.40%	[20000.00]	ug/L
As 188.979	4553.5	19.28	0.42%	[1000.00]	ug/L
B	3960.0	10.65	0.27%	[1000.00]	ug/L
Ba 233.527	149988.0	221.76	0.15%	[1000.00]	ug/L
Be 313.107	5860031.8	34334.56	0.59%	[1000.00]	ug/L
Ca 315.887	549865.4	1372.55	0.25%	[50000]	ug/L
Cd 214.440	299604.9	508.66	0.17%	[1000.00]	ug/L
Co 228.616	64219.0	146.08	0.23%	[1000.00]	ug/L
Cr 267.716	128882.6	109.08	0.08%	[1000.00]	ug/L
Cu 327.393	82708.6	303.61	0.37%	[1000.00]	ug/L
Fe 273.955	464898.1	341.29	0.07%	[20000]	ug/L
K 766.490	71496.7	75.43	0.11%	[20000]	ug/L
Mg 285.213	929568.9	2921.77	0.31%	[50000]	ug/L
Mn 257.610	50302.4	188.10	0.37%	[1000.00]	ug/L
Mo 202.031	40476.5	135.10	0.33%	[1000.00]	ug/L
Na 589.592	321820.2	975.00	0.30%	[25000]	ug/L
Ni 231.604	57850.0	146.67	0.25%	[1000.00]	ug/L
P 213.617	29774.1	28.70	0.10%	[5000]	ug/L
Pb 220.353	13101.4	47.68	0.36%	[1000.00]	ug/L
Sb 206.836	5846.9	38.18	0.65%	[1000.00]	ug/L
Se 196.026	4741.7	30.23	0.64%	[1000.00]	ug/L
Sn 189.927	6228.2	32.42	0.52%	[1000.00]	ug/L
Sr 421.552	986250.0	3222.13	0.33%	[1000.00]	ug/L
Ti 337.279	41968.8	79.82	0.19%	[1000.00]	ug/L
Tl 190.801	6042.4	17.40	0.29%	[1000.00]	ug/L
V 292.402	225411.2	415.01	0.18%	[1000.00]	ug/L
Zn 206.200	74904.1	204.21	0.27%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 121218RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 12/18/12 11:22:09 AM
Data Type: Reprocessed on 12/18/12 2:13:34 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 121218RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	122432.3	386.34	0.32%	[1000.00]	ug/L
Al 308.215	63599.7	771.23	1.21%	[40000.00]	ug/L
As 188.979	8909.6	6.16	0.07%	[2000.00]	ug/L
B	7824.6	61.38	0.78%	[2000.00]	ug/L
Ba 233.527	293108.3	924.10	0.32%	[2000.00]	ug/L
Be 313.107	11363185.5	60793.17	0.54%	[2000.00]	ug/L
Ca 315.887	1080435.0	9046.87	0.84%	[100000.0]	ug/L
Cd 214.440	573155.8	1938.41	0.34%	[2000.00]	ug/L
Co 228.616	124684.5	482.68	0.39%	[2000.00]	ug/L
Cr 267.716	250576.3	813.05	0.32%	[2000.00]	ug/L
Cu 327.393	167442.8	1034.27	0.62%	[2000.00]	ug/L
Fe 273.955	902813.9	3196.04	0.35%	[40000]	ug/L
K 766.490	146217.9	1430.91	0.98%	[40000]	ug/L
Mg 285.213	1817254.1	13483.02	0.74%	[100000]	ug/L
Mn 257.610	99017.1	1118.30	1.13%	[2000.00]	ug/L
Mo 202.031	79269.4	194.39	0.25%	[2000.00]	ug/L
Na 589.592	636752.2	5026.10	0.79%	[50000]	ug/L
Ni 231.604	111469.3	338.92	0.30%	[2000.00]	ug/L
P 213.617	58681.7	301.21	0.51%	[10000]	ug/L
Pb 220.353	25552.2	111.07	0.43%	[2000.00]	ug/L
Sb 206.836	11495.6	44.05	0.38%	[2000.00]	ug/L
Se 196.026	9198.1	21.53	0.23%	[2000.00]	ug/L
Sn 189.927	12322.2	131.47	1.07%	[2000.00]	ug/L
Sr 421.552	1948813.8	17289.77	0.89%	[2000.00]	ug/L
Ti 337.279	82979.1	656.33	0.79%	[2000.00]	ug/L
Tl 190.801	11791.3	58.17	0.49%	[2000.00]	ug/L
V 292.402	442914.6	1516.87	0.34%	[2000.00]	ug/L
Zn 206.200	142971.7	366.89	0.26%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	122.5	0.00000	1.000000	
Al 308.215	3	Lin Thru 0	0.0	1.591	0.00000	1.000000	
As 188.979	3	Lin Thru 0	0.0	4.475	0.00000	0.999961	
B	3	Lin Thru 0	0.0	3.922	0.00000	0.999988	
Ba 233.527	3	Lin Thru 0	0.0	147.2	0.00000	0.999956	
Be 313.107	3	Lin Thru 0	0.0	5717	0.00000	0.999922	
Ca 315.887	3	Lin Thru 0	0.0	10.84	0.00000	0.999975	
Cd 214.440	3	Lin Thru 0	0.0	289.2	0.00000	0.999838	
Co 228.616	3	Lin Thru 0	0.0	62.72	0.00000	0.999928	
Cr 267.716	3	Lin Thru 0	0.0	126.0	0.00000	0.999935	
Cu 327.393	3	Lin Thru 0	0.0	83.52	0.00000	0.999988	
Fe 273.955	3	Lin Thru 0	0.0	22.71	0.00000	0.999929	
K 766.490	3	Lin Thru 0	0.0	3.639	0.00000	0.999943	
Mg 285.213	3	Lin Thru 0	0.0	18.26	0.00000	0.999958	
Mn 257.610	3	Lin Thru 0	0.0	49.67	0.00000	0.999980	
Mo 202.031	3	Lin Thru 0	0.0	39.80	0.00000	0.999964	
Na 589.592	3	Lin Thru 0	0.0	12.76	0.00000	0.999991	
Ni 231.604	3	Lin Thru 0	0.0	56.16	0.00000	0.999886	
P 213.617	3	Lin Thru 0	0.0	5.885	0.00000	0.999983	
Pb 220.353	3	Lin Thru 0	0.0	12.84	0.00000	0.999949	
Sb 206.836	3	Lin Thru 0	0.0	5.768	0.00000	0.999976	
Se 196.026	3	Lin Thru 0	0.0	4.628	0.00000	0.999924	
Sn 189.927	3	Lin Thru 0	0.0	6.175	0.00000	0.999991	
Sr 421.552	3	Lin Thru 0	0.0	976.8	0.00000	0.999988	
Ti 337.279	3	Lin Thru 0	0.0	41.59	0.00000	0.999989	
Tl 190.801	3	Lin Thru 0	0.0	5.925	0.00000	0.999951	

V 292.402	3	Lin Thru 0	0.0	222.2	0.00000	0.999975
Zn 206.200	3	Lin Thru 0	0.0	72.17	0.00000	0.999820

Sequence No.: 5
Sample ID: ICV 121218RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 12/18/12 11:30:36 AM
Data Type: Reprocessed on 12/18/12 2:13:35 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 121218RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	62268.1	508.4	ug/L	5.29	508.4	ug/L	5.29	1.04%
QC value within limits for Ag 338.289 Recovery = 101.67%								
Al 308.215	40939.5	25750	ug/L	222.8	25750	ug/L	222.8	0.87%
QC value within limits for Al 308.215 Recovery = 103.00%								
As 188.979	4606.9	1030	ug/L	2.2	1030	ug/L	2.2	0.21%
QC value within limits for As 188.979 Recovery = 102.96%								
B	3925.8	1085	ug/L	12.8	1085	ug/L	12.8	1.18%
QC value within limits for B Recovery = 108.54%								
Ba 233.527	150469.1	1007	ug/L	4.0	1007	ug/L	4.0	0.40%
QC value within limits for Ba 233.527 Recovery = 100.66%								
Be 313.107	5979522.0	1046	ug/L	13.4	1046	ug/L	13.4	1.28%
QC value within limits for Be 313.107 Recovery = 104.59%								
Ca 315.887	281754.6	25970	ug/L	195.6	25970	ug/L	195.6	0.75%
QC value within limits for Ca 315.887 Recovery = 103.90%								
Cd 214.440	318656.1	1101	ug/L	4.6	1101	ug/L	4.6	0.42%
QC value within limits for Cd 214.440 Recovery = 110.12%								
Co 228.616	64152.8	1022	ug/L	4.5	1022	ug/L	4.5	0.44%
QC value within limits for Co 228.616 Recovery = 102.17%								
Cr 267.716	133459.6	1060	ug/L	4.0	1060	ug/L	4.0	0.38%
QC value within limits for Cr 267.716 Recovery = 106.03%								
Cu 327.393	83725.6	1002	ug/L	5.0	1002	ug/L	5.0	0.50%
QC value within limits for Cu 327.393 Recovery = 100.25%								
Fe 273.955	614205.3	26970	ug/L	120.4	26970	ug/L	120.4	0.45%
QC value within limits for Fe 273.955 Recovery = 107.87%								
K 766.490	87304.3	23980	ug/L	138.7	23980	ug/L	138.7	0.58%
QC value within limits for K 766.490 Recovery = 95.92%								
Mg 285.213	483562.2	26520	ug/L	173.7	26520	ug/L	173.7	0.65%
QC value within limits for Mg 285.213 Recovery = 106.07%								
Mn 257.610	52896.8	1065	ug/L	12.1	1065	ug/L	12.1	1.14%
QC value within limits for Mn 257.610 Recovery = 106.54%								
Mo 202.031	40041.2	1009	ug/L	5.5	1009	ug/L	5.5	0.54%
QC value within limits for Mo 202.031 Recovery = 100.88%								
Na 589.592	323509.7	25330	ug/L	149.4	25330	ug/L	149.4	0.59%
QC value within limits for Na 589.592 Recovery = 101.31%								
Ni 231.604	60567.5	1077	ug/L	6.5	1077	ug/L	6.5	0.61%
QC value within limits for Ni 231.604 Recovery = 107.65%								
P 213.617	29764.5	5057	ug/L	30.7	5057	ug/L	30.7	0.61%
QC value within limits for P 213.617 Recovery = 101.15%								
Pb 220.353	13499.8	1051	ug/L	4.2	1051	ug/L	4.2	0.40%
QC value within limits for Pb 220.353 Recovery = 105.13%								
Sb 206.836	6083.0	1055	ug/L	1.2	1055	ug/L	1.2	0.12%
QC value within limits for Sb 206.836 Recovery = 105.47%								
Se 196.026	4842.8	1060	ug/L	2.9	1060	ug/L	2.9	0.28%
QC value within limits for Se 196.026 Recovery = 105.97%								
Sn 189.927	3845.3	622.8	ug/L	5.37	622.8	ug/L	5.37	0.86%
QC value greater than the upper limit for Sn 189.927 Recovery = 124.55%								
Sr 421.552	987456.2	1011	ug/L	6.1	1011	ug/L	6.1	0.61%
QC value within limits for Sr 421.552 Recovery = 101.07%								
Ti 337.279	45057.8	1083	ug/L	5.4	1083	ug/L	5.4	0.50%
QC value within limits for Ti 337.279 Recovery = 108.30%								
Tl 190.801	6133.7	1035	ug/L	0.7	1035	ug/L	0.7	0.07%
QC value within limits for Tl 190.801 Recovery = 103.52%								
V 292.402	228705.4	1046	ug/L	4.2	1046	ug/L	4.2	0.41%
QC value within limits for V 292.402 Recovery = 104.57%								
Zn 206.200	77582.3	1085	ug/L	4.5	1085	ug/L	4.5	0.41%
QC value within limits for Zn 206.200 Recovery = 108.47%								

QC Failed. Continue with analysis.

Sequence No.: 6
Sample ID: ICB 121218RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/18/12 11:35:12 AM
Data Type: Reprocessed on 12/18/12 2:13:37 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 121218RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	16.7	0.136	ug/L	0.2839	0.136	ug/L	0.2839	208.46%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	0.5	0.305	ug/L	9.6273	0.305	ug/L	9.6273	>999.9%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	8.3	1.849	ug/L	0.9373	1.849	ug/L	0.9373	50.69%
QC value within limits for As 188.979 Recovery = Not calculated								
B	58.2	14.84	ug/L	1.363	14.84	ug/L	1.363	9.19%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	6.1	0.041	ug/L	0.1159	0.041	ug/L	0.1159	285.68%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	9.9	0.002	ug/L	0.0045	0.002	ug/L	0.0045	260.29%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	44.4	4.100	ug/L	0.5731	4.100	ug/L	0.5731	13.98%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	39.6	0.135	ug/L	0.0848	0.135	ug/L	0.0848	62.91%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	-2.4	-0.036	ug/L	0.1651	-0.036	ug/L	0.1651	465.16%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-566.4	-4.495	ug/L	0.0510	-4.495	ug/L	0.0510	1.13%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-17.3	-0.207	ug/L	0.5079	-0.207	ug/L	0.5079	244.88%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	19.1	0.853	ug/L	0.5569	0.853	ug/L	0.5569	65.31%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	13.3	3.681	ug/L	50.6500	3.681	ug/L	50.6500	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	1.2	0.071	ug/L	0.2382	0.071	ug/L	0.2382	336.90%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-0.4	-0.008	ug/L	0.0577	-0.008	ug/L	0.0577	724.54%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	15.5	0.389	ug/L	0.1057	0.389	ug/L	0.1057	27.16%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	645.5	50.58	ug/L	16.917	50.58	ug/L	16.917	33.45%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-9.3	-0.167	ug/L	0.1462	-0.167	ug/L	0.1462	87.51%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	2.1	0.357	ug/L	0.1471	0.357	ug/L	0.1471	41.25%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	11.5	0.898	ug/L	0.5336	0.898	ug/L	0.5336	59.43%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	4.3	0.746	ug/L	0.5015	0.746	ug/L	0.5015	67.27%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	5.9	1.266	ug/L	1.3088	1.266	ug/L	1.3088	103.35%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	8.7	1.403	ug/L	0.0727	1.403	ug/L	0.0727	5.18%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	52.7	0.054	ug/L	0.0900	0.054	ug/L	0.0900	167.18%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	20.9	0.503	ug/L	0.1539	0.503	ug/L	0.1539	30.57%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	16.5	2.777	ug/L	0.9618	2.777	ug/L	0.9618	34.63%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	23.7	0.069	ug/L	0.1451	0.069	ug/L	0.1451	209.16%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	65.5	0.864	ug/L	0.2048	0.864	ug/L	0.2048	23.71%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 121218RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 12/18/12 11:43:57 AM
Data Type: Reprocessed on 12/18/12 2:13:39 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 121218RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-79.3	-0.647	ug/L	0.1907	-0.647	ug/L	0.1907	29.47%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	317453.3	199600	ug/L	281.0	199600	ug/L	281.0	0.14%
QC value within limits for Al 308.215 Recovery = 99.80%								
As 188.979	4.6	1.018	ug/L	0.4174	1.018	ug/L	0.4174	41.00%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2064.1	71.34	ug/L	13.515	71.34	ug/L	13.515	18.95%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	17051.3	3.575	ug/L	0.7758	3.575	ug/L	0.7758	21.70%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-530.4	-0.093	ug/L	0.0359	-0.093	ug/L	0.0359	38.68%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	2170649.5	200200	ug/L	126.3	200200	ug/L	126.3	0.06%
QC value within limits for Ca 315.887 Recovery = 100.08%								
Cd 214.440	2975.3	0.581	ug/L	0.0210	0.581	ug/L	0.0210	3.62%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	278.3	0.133	ug/L	0.6014	0.133	ug/L	0.6014	453.41%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-709.9	-5.043	ug/L	0.3030	-5.043	ug/L	0.3030	6.01%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-204.0	-2.443	ug/L	0.4525	-2.443	ug/L	0.4525	18.52%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4287880.6	188800	ug/L	1605.9	188800	ug/L	1605.9	0.85%
QC value within limits for Fe 273.955 Recovery = 94.42%								
K 766.490	381.6	-14.49	ug/L	36.119	-14.49	ug/L	36.119	249.22%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3634498.8	199300	ug/L	167.2	199300	ug/L	167.2	0.08%
QC value within limits for Mg 285.213 Recovery = 99.65%								
Mn 257.610	-121.4	-1.425	ug/L	0.4550	-1.425	ug/L	0.4550	31.93%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-528.3	1.064	ug/L	0.0349	1.064	ug/L	0.0349	3.28%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	30.6	-44.48	ug/L	11.120	-44.48	ug/L	11.120	25.00%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	45.4	0.611	ug/L	0.3675	0.611	ug/L	0.3675	60.18%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-56.3	-9.569	ug/L	1.2745	-9.569	ug/L	1.2745	13.32%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	12.6	0.981	ug/L	0.6471	0.981	ug/L	0.6471	65.95%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-3.7	-0.644	ug/L	1.3679	-0.644	ug/L	1.3679	212.30%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-474.2	-2.653	ug/L	4.2338	-2.653	ug/L	4.2338	159.59%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	2.1	0.342	ug/L	2.2879	0.342	ug/L	2.2879	669.36%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2046.5	-0.159	ug/L	0.1337	-0.159	ug/L	0.1337	84.21%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	139.8	-0.200	ug/L	0.9081	-0.200	ug/L	0.9081	454.53%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	-3.6	-0.609	ug/L	0.7786	-0.609	ug/L	0.7786	127.82%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	10265.1	-0.724	ug/L	0.4534	-0.724	ug/L	0.4534	62.61%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	478.8	-3.031	ug/L	0.0916	-3.031	ug/L	0.0916	3.02%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 121218RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 12/18/12 11:48:34 AM
Data Type: Reprocessed on 12/18/12 2:13:40 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 121218RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	123258.8	1006	ug/L	4.9	1006	ug/L	4.9	0.49%
QC value within limits for Ag 338.289 Recovery = 100.63%								
Al 308.215	316122.0	198800	ug/L	931.2	198800	ug/L	931.2	0.47%
QC value within limits for Al 308.215 Recovery = 99.38%								
As 188.979	2200.1	491.7	ug/L	2.89	491.7	ug/L	2.89	0.59%
QC value within limits for As 188.979 Recovery = 98.34%								
B	-1990.8	77.54	ug/L	15.289	77.54	ug/L	15.289	19.72%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	86091.7	475.0	ug/L	4.04	475.0	ug/L	4.04	0.85%
QC value within limits for Ba 233.527 Recovery = 95.00%								
Be 313.107	2735793.4	478.5	ug/L	2.60	478.5	ug/L	2.60	0.54%
QC value within limits for Be 313.107 Recovery = 95.70%								
Ca 315.887	2160241.2	199200	ug/L	1135.3	199200	ug/L	1135.3	0.57%
QC value within limits for Ca 315.887 Recovery = 99.60%								
Cd 214.440	284361.6	974.0	ug/L	1.76	974.0	ug/L	1.76	0.18%
QC value within limits for Cd 214.440 Recovery = 97.40%								
Co 228.616	30230.8	478.7	ug/L	2.75	478.7	ug/L	2.75	0.57%
QC value within limits for Co 228.616 Recovery = 95.73%								
Cr 267.716	59874.3	476.2	ug/L	2.12	476.2	ug/L	2.12	0.45%
QC value within limits for Cr 267.716 Recovery = 95.25%								
Cu 327.393	41485.5	496.7	ug/L	1.62	496.7	ug/L	1.62	0.33%
QC value within limits for Cu 327.393 Recovery = 99.34%								
Fe 273.955	4205666.9	185200	ug/L	1587.0	185200	ug/L	1587.0	0.86%
QC value within limits for Fe 273.955 Recovery = 92.58%								
K 766.490	222.0	-57.54	ug/L	31.353	-57.54	ug/L	31.353	54.49%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3626440.7	198900	ug/L	580.6	198900	ug/L	580.6	0.29%
QC value within limits for Mg 285.213 Recovery = 99.43%								
Mn 257.610	23977.6	483.7	ug/L	9.68	483.7	ug/L	9.68	2.00%
QC value within limits for Mn 257.610 Recovery = 96.74%								
Mo 202.031	18461.7	478.2	ug/L	2.11	478.2	ug/L	2.11	0.44%
QC value within limits for Mo 202.031 Recovery = 95.65%								
Na 589.592	100.3	-40.37	ug/L	4.951	-40.37	ug/L	4.951	12.26%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	53217.5	946.5	ug/L	1.10	946.5	ug/L	1.10	0.12%
QC value within limits for Ni 231.604 Recovery = 94.65%								
P 213.617	-31.1	-5.288	ug/L	1.4397	-5.288	ug/L	1.4397	27.23%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	12221.1	951.7	ug/L	4.63	951.7	ug/L	4.63	0.49%
QC value within limits for Pb 220.353 Recovery = 95.17%								
Sb 206.836	2758.1	478.2	ug/L	1.70	478.2	ug/L	1.70	0.36%
QC value within limits for Sb 206.836 Recovery = 95.64%								
Se 196.026	1787.9	484.0	ug/L	3.59	484.0	ug/L	3.59	0.74%
QC value within limits for Se 196.026 Recovery = 96.80%								
Sn 189.927	-0.2	-0.031	ug/L	1.7655	-0.031	ug/L	1.7655	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	2071.5	-0.106	ug/L	0.0795	-0.106	ug/L	0.0795	74.77%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	133.3	-0.290	ug/L	1.8177	-0.290	ug/L	1.8177	627.69%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2783.2	469.7	ug/L	2.91	469.7	ug/L	2.91	0.62%
QC value within limits for Tl 190.801 Recovery = 93.95%								
V 292.402	117358.0	493.3	ug/L	1.39	493.3	ug/L	1.39	0.28%
QC value within limits for V 292.402 Recovery = 98.66%								
Zn 206.200	67426.8	929.7	ug/L	1.49	929.7	ug/L	1.49	0.16%
QC value within limits for Zn 206.200 Recovery = 92.97%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 121218RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/18/12 11:53:13 AM
Data Type: Reprocessed on 12/18/12 2:13:41 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121218RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	62328.2	508.8	ug/L	5.70	508.8	ug/L	5.70	1.12%
QC value within limits for Ag 338.289 Recovery = 101.77%								
Al 308.215	32906.3	20700	ug/L	193.6	20700	ug/L	193.6	0.94%
QC value within limits for Al 308.215 Recovery = 103.49%								
As 188.979	4573.9	1022	ug/L	4.3	1022	ug/L	4.3	0.42%
QC value within limits for As 188.979 Recovery = 102.22%								
B	4041.4	1094	ug/L	15.3	1094	ug/L	15.3	1.40%
QC value within limits for B Recovery = 109.36%								
Ba 233.527	152650.6	1025	ug/L	2.4	1025	ug/L	2.4	0.23%
QC value within limits for Ba 233.527 Recovery = 102.51%								
Be 313.107	5915783.1	1035	ug/L	3.7	1035	ug/L	3.7	0.36%
QC value within limits for Be 313.107 Recovery = 103.47%								
Ca 315.887	554928.7	51170	ug/L	376.1	51170	ug/L	376.1	0.74%
QC value within limits for Ca 315.887 Recovery = 102.34%								
Cd 214.440	304663.9	1053	ug/L	2.2	1053	ug/L	2.2	0.21%
QC value within limits for Cd 214.440 Recovery = 105.32%								
Co 228.616	65124.4	1037	ug/L	1.4	1037	ug/L	1.4	0.13%
QC value within limits for Co 228.616 Recovery = 103.75%								
Cr 267.716	130031.1	1033	ug/L	2.0	1033	ug/L	2.0	0.19%
QC value within limits for Cr 267.716 Recovery = 103.28%								
Cu 327.393	84320.7	1010	ug/L	1.6	1010	ug/L	1.6	0.16%
QC value within limits for Cu 327.393 Recovery = 100.96%								
Fe 273.955	472321.1	20720	ug/L	53.1	20720	ug/L	53.1	0.26%
QC value within limits for Fe 273.955 Recovery = 103.58%								
K 766.490	71886.2	19740	ug/L	123.6	19740	ug/L	123.6	0.63%
QC value within limits for K 766.490 Recovery = 98.69%								
Mg 285.213	939116.1	51460	ug/L	370.9	51460	ug/L	370.9	0.72%
QC value within limits for Mg 285.213 Recovery = 102.93%								
Mn 257.610	51967.5	1045	ug/L	10.9	1045	ug/L	10.9	1.04%
QC value within limits for Mn 257.610 Recovery = 104.52%								
Mo 202.031	41334.5	1041	ug/L	5.1	1041	ug/L	5.1	0.49%
QC value within limits for Mo 202.031 Recovery = 104.06%								
Na 589.592	321302.9	25150	ug/L	192.8	25150	ug/L	192.8	0.77%
QC value within limits for Na 589.592 Recovery = 100.61%								
Ni 231.604	58830.5	1045	ug/L	3.8	1045	ug/L	3.8	0.36%
QC value within limits for Ni 231.604 Recovery = 104.55%								
P 213.617	30218.3	5134	ug/L	22.8	5134	ug/L	22.8	0.44%
QC value within limits for P 213.617 Recovery = 102.69%								
Pb 220.353	13298.4	1036	ug/L	5.5	1036	ug/L	5.5	0.53%
QC value within limits for Pb 220.353 Recovery = 103.56%								
Sb 206.836	5936.8	1029	ug/L	3.4	1029	ug/L	3.4	0.33%
QC value within limits for Sb 206.836 Recovery = 102.93%								
Se 196.026	4753.5	1036	ug/L	7.8	1036	ug/L	7.8	0.75%
QC value within limits for Se 196.026 Recovery = 103.62%								
Sn 189.927	6346.1	1028	ug/L	6.0	1028	ug/L	6.0	0.58%
QC value within limits for Sn 189.927 Recovery = 102.78%								
Sr 421.552	985764.1	1009	ug/L	7.8	1009	ug/L	7.8	0.77%
QC value within limits for Sr 421.552 Recovery = 100.88%								
Ti 337.279	43372.5	1042	ug/L	9.6	1042	ug/L	9.6	0.92%
QC value within limits for Ti 337.279 Recovery = 104.22%								
Tl 190.801	6136.7	1036	ug/L	7.9	1036	ug/L	7.9	0.77%
QC value within limits for Tl 190.801 Recovery = 103.57%								
V 292.402	228783.3	1048	ug/L	1.8	1048	ug/L	1.8	0.17%
QC value within limits for V 292.402 Recovery = 104.77%								
Zn 206.200	76316.5	1067	ug/L	3.3	1067	ug/L	3.3	0.31%
QC value within limits for Zn 206.200 Recovery = 106.74%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 121218RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/18/12 12:05:19 PM
Data Type: Reprocessed on 12/18/12 2:13:42 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121218RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	3.4	0.027	ug/L	0.0788	0.027	ug/L	0.0788	287.13%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-1.3	-0.823	ug/L	5.2763	-0.823	ug/L	5.2763	641.44%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	3.5	0.781	ug/L	0.5997	0.781	ug/L	0.5997	76.76%
QC value within limits for As 188.979 Recovery = Not calculated								
B	14.2	3.622	ug/L	0.7013	3.622	ug/L	0.7013	19.36%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-16.0	-0.110	ug/L	0.0474	-0.110	ug/L	0.0474	43.16%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-138.1	-0.024	ug/L	0.0245	-0.024	ug/L	0.0245	101.28%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	-127.0	-11.70	ug/L	2.822	-11.70	ug/L	2.822	24.12%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	2.6	0.006	ug/L	0.0151	0.006	ug/L	0.0151	273.70%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	3.4	0.058	ug/L	0.1603	0.058	ug/L	0.1603	277.60%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-812.5	-6.447	ug/L	0.3158	-6.447	ug/L	0.3158	4.90%
QC value less than the lower limit for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-110.7	-1.325	ug/L	0.2133	-1.325	ug/L	0.2133	16.10%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	42.9	1.910	ug/L	0.3188	1.910	ug/L	0.3188	16.69%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-5.3	-1.454	ug/L	28.7907	-1.454	ug/L	28.7907	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	-21.5	-1.171	ug/L	0.7452	-1.171	ug/L	0.7452	63.63%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-29.2	-0.588	ug/L	0.1108	-0.588	ug/L	0.1108	18.84%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	7.6	0.191	ug/L	0.3669	0.191	ug/L	0.3669	192.45%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-164.6	-12.89	ug/L	3.358	-12.89	ug/L	3.358	26.05%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-14.6	-0.259	ug/L	0.1519	-0.259	ug/L	0.1519	58.53%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-5.2	-0.879	ug/L	1.3152	-0.879	ug/L	1.3152	149.67%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	3.0	0.230	ug/L	0.3951	0.230	ug/L	0.3951	171.93%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.0	0.525	ug/L	0.4485	0.525	ug/L	0.4485	85.40%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-1.0	-0.205	ug/L	1.6170	-0.205	ug/L	1.6170	788.65%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	3.8	0.619	ug/L	0.6823	0.619	ug/L	0.6823	110.18%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-54.2	-0.055	ug/L	0.0489	-0.055	ug/L	0.0489	88.28%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	7.7	0.186	ug/L	0.3998	0.186	ug/L	0.3998	214.73%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3.9	0.651	ug/L	0.7722	0.651	ug/L	0.7722	118.70%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	19.5	0.030	ug/L	0.0594	0.030	ug/L	0.0594	198.86%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-96.6	-1.401	ug/L	0.0500	-1.401	ug/L	0.0500	3.57%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 15
Sample ID: CCV2 121218RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 12/18/12 12:26:59 PM
Data Type: Reprocessed on 12/18/12 2:13:46 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 121218RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	46551.2	380.0	ug/L	2.88	380.0	ug/L	2.88	0.76%
QC value within limits for Ag 338.289 Recovery = 101.35%								
Al 308.215	24841.2	15620	ug/L	296.9	15620	ug/L	296.9	1.90%
QC value within limits for Al 308.215 Recovery = 104.16%								
As 188.979	3462.3	773.8	ug/L	3.15	773.8	ug/L	3.15	0.41%
QC value within limits for As 188.979 Recovery = 103.17%								
B	3026.7	819.1	ug/L	8.59	819.1	ug/L	8.59	1.05%
QC value within limits for B Recovery = 109.21%								
Ba 233.527	113953.3	765.2	ug/L	5.04	765.2	ug/L	5.04	0.66%
QC value within limits for Ba 233.527 Recovery = 102.02%								
Be 313.107	4476729.4	783.0	ug/L	3.18	783.0	ug/L	3.18	0.41%
QC value within limits for Be 313.107 Recovery = 104.40%								
Ca 315.887	423877.0	39080	ug/L	236.2	39080	ug/L	236.2	0.60%
QC value within limits for Ca 315.887 Recovery = 104.23%								
Cd 214.440	228919.7	791.3	ug/L	5.02	791.3	ug/L	5.02	0.63%
QC value within limits for Cd 214.440 Recovery = 105.51%								
Co 228.616	49001.6	780.7	ug/L	4.99	780.7	ug/L	4.99	0.64%
QC value within limits for Co 228.616 Recovery = 104.09%								
Cr 267.716	97316.0	772.9	ug/L	4.83	772.9	ug/L	4.83	0.63%
QC value within limits for Cr 267.716 Recovery = 103.06%								
Cu 327.393	63805.4	764.0	ug/L	5.65	764.0	ug/L	5.65	0.74%
QC value within limits for Cu 327.393 Recovery = 101.86%								
Fe 273.955	354441.4	15550	ug/L	109.5	15550	ug/L	109.5	0.70%
QC value within limits for Fe 273.955 Recovery = 103.64%								
K 766.490	53143.1	14590	ug/L	29.5	14590	ug/L	29.5	0.20%
QC value within limits for K 766.490 Recovery = 97.27%								
Mg 285.213	718544.9	39380	ug/L	183.6	39380	ug/L	183.6	0.47%
QC value within limits for Mg 285.213 Recovery = 105.00%								
Mn 257.610	39456.8	793.5	ug/L	15.19	793.5	ug/L	15.19	1.91%
QC value within limits for Mn 257.610 Recovery = 105.81%								
Mo 202.031	32100.9	808.1	ug/L	4.19	808.1	ug/L	4.19	0.52%
QC value within limits for Mo 202.031 Recovery = 107.75%								
Na 589.592	246387.5	19290	ug/L	96.4	19290	ug/L	96.4	0.50%
QC value within limits for Na 589.592 Recovery = 102.87%								
Ni 231.604	44372.9	788.6	ug/L	5.17	788.6	ug/L	5.17	0.66%
QC value within limits for Ni 231.604 Recovery = 105.14%								
P 213.617	23442.4	3983	ug/L	24.1	3983	ug/L	24.1	0.61%
QC value within limits for P 213.617 Recovery = 106.22%								
Pb 220.353	10145.9	790.1	ug/L	4.49	790.1	ug/L	4.49	0.57%
QC value within limits for Pb 220.353 Recovery = 105.35%								
Sb 206.836	4479.0	776.6	ug/L	6.01	776.6	ug/L	6.01	0.77%
QC value within limits for Sb 206.836 Recovery = 103.54%								
Se 196.026	3629.4	791.0	ug/L	4.90	791.0	ug/L	4.90	0.62%
QC value within limits for Se 196.026 Recovery = 105.47%								
Sn 189.927	4876.5	789.8	ug/L	6.54	789.8	ug/L	6.54	0.83%
QC value within limits for Sn 189.927 Recovery = 105.30%								
Sr 421.552	756117.8	773.8	ug/L	3.70	773.8	ug/L	3.70	0.48%
QC value within limits for Sr 421.552 Recovery = 103.17%								
Ti 337.279	32646.5	784.4	ug/L	15.71	784.4	ug/L	15.71	2.00%
QC value within limits for Ti 337.279 Recovery = 104.59%								
Tl 190.801	4640.6	783.2	ug/L	6.05	783.2	ug/L	6.05	0.77%
QC value within limits for Tl 190.801 Recovery = 104.43%								
V 292.402	171018.3	783.6	ug/L	5.23	783.6	ug/L	5.23	0.67%
QC value within limits for V 292.402 Recovery = 104.48%								
Zn 206.200	57305.0	801.5	ug/L	6.46	801.5	ug/L	6.46	0.81%
QC value within limits for Zn 206.200 Recovery = 106.86%								

All analyte(s) passed QC.

Sequence No.: 16
Sample ID: CCB 121218RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 12/18/12 12:30:33 PM
Data Type: Reprocessed on 12/18/12 2:13:47 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121218RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-178.9	-1.461	ug/L	0.6444	-1.461	ug/L	0.6444	44.12%
QC value less than the lower limit for Ag 338.289 Recovery = Not calculated								
Al 308.215	0.6	0.363	ug/L	3.4252	0.363	ug/L	3.4252	942.51%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.5	1.666	ug/L	0.0878	1.666	ug/L	0.0878	5.27%
QC value within limits for As 188.979 Recovery = Not calculated								
B	25.6	6.522	ug/L	0.8214	6.522	ug/L	0.8214	12.59%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-17.1	-0.116	ug/L	0.0432	-0.116	ug/L	0.0432	37.34%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-168.1	-0.029	ug/L	0.0134	-0.029	ug/L	0.0134	45.62%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	-155.2	-14.30	ug/L	2.070	-14.30	ug/L	2.070	14.47%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-16.1	-0.060	ug/L	0.0222	-0.060	ug/L	0.0222	37.23%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	8.3	0.137	ug/L	0.2148	0.137	ug/L	0.2148	157.33%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-893.8	-7.093	ug/L	1.0708	-7.093	ug/L	1.0708	15.10%
QC value less than the lower limit for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-632.4	-7.572	ug/L	0.7886	-7.572	ug/L	0.7886	10.41%
QC value less than the lower limit for Cu 327.393 Recovery = Not calculated								
Fe 273.955	-11.4	-0.482	ug/L	0.6372	-0.482	ug/L	0.6372	132.10%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	67.9	18.68	ug/L	17.287	18.68	ug/L	17.287	92.56%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	-8.1	-0.441	ug/L	0.5344	-0.441	ug/L	0.5344	121.06%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-28.7	-0.579	ug/L	0.1276	-0.579	ug/L	0.1276	22.02%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	6.1	0.154	ug/L	0.2631	0.154	ug/L	0.2631	170.69%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-267.8	-20.99	ug/L	7.629	-20.99	ug/L	7.629	36.35%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-5.6	-0.100	ug/L	0.1170	-0.100	ug/L	0.1170	116.84%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-3.3	-0.562	ug/L	0.6511	-0.562	ug/L	0.6511	115.78%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-1.4	-0.109	ug/L	0.4354	-0.109	ug/L	0.4354	400.80%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	0.0	0.003	ug/L	0.6739	0.003	ug/L	0.6739	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	3.1	0.666	ug/L	2.7515	0.666	ug/L	2.7515	412.84%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	20.5	3.322	ug/L	0.6654	3.322	ug/L	0.6654	20.03%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	42.3	0.043	ug/L	0.1645	0.043	ug/L	0.1645	378.29%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	3.7	0.090	ug/L	0.2821	0.090	ug/L	0.2821	313.23%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	9.7	1.633	ug/L	0.8699	1.633	ug/L	0.8699	53.26%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	17.6	0.015	ug/L	0.0491	0.015	ug/L	0.0491	328.48%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-222.5	-3.153	ug/L	0.1613	-3.153	ug/L	0.1613	5.11%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 25
Sample ID: CCV1 121218RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/18/12 1:14:22 PM
Data Type: Reprocessed on 12/18/12 2:13:56 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 121218RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	62577.2	510.9	ug/L	9.92	510.9	ug/L	9.92	1.94%
QC value within limits for Ag 338.289 Recovery = 102.18%								
Al 308.215	33481.4	21060	ug/L	250.4	21060	ug/L	250.4	1.19%
QC value within limits for Al 308.215 Recovery = 105.30%								
As 188.979	4610.5	1030	ug/L	1.4	1030	ug/L	1.4	0.14%
QC value within limits for As 188.979 Recovery = 103.04%								
B	4086.3	1105	ug/L	15.2	1105	ug/L	15.2	1.38%
QC value greater than the upper limit for B Recovery = 110.46%								
Ba 233.527	153435.6	1031	ug/L	7.6	1031	ug/L	7.6	0.74%
QC value within limits for Ba 233.527 Recovery = 103.05%								
Be 313.107	5933036.0	1038	ug/L	3.5	1038	ug/L	3.5	0.34%
QC value within limits for Be 313.107 Recovery = 103.77%								
Ca 315.887	571042.9	52650	ug/L	41.5	52650	ug/L	41.5	0.08%
QC value within limits for Ca 315.887 Recovery = 105.31%								
Cd 214.440	302152.8	1044	ug/L	6.4	1044	ug/L	6.4	0.61%
QC value within limits for Cd 214.440 Recovery = 104.45%								
Co 228.616	65657.1	1046	ug/L	7.0	1046	ug/L	7.0	0.67%
QC value within limits for Co 228.616 Recovery = 104.59%								
Cr 267.716	130013.1	1033	ug/L	8.3	1033	ug/L	8.3	0.81%
QC value within limits for Cr 267.716 Recovery = 103.26%								
Cu 327.393	87113.2	1043	ug/L	8.3	1043	ug/L	8.3	0.79%
QC value within limits for Cu 327.393 Recovery = 104.30%								
Fe 273.955	470364.2	20630	ug/L	156.7	20630	ug/L	156.7	0.76%
QC value within limits for Fe 273.955 Recovery = 103.15%								
K 766.490	75673.8	20780	ug/L	244.8	20780	ug/L	244.8	1.18%
QC value within limits for K 766.490 Recovery = 103.89%								
Mg 285.213	972170.4	53270	ug/L	77.1	53270	ug/L	77.1	0.14%
QC value within limits for Mg 285.213 Recovery = 106.55%								
Mn 257.610	52801.7	1062	ug/L	13.7	1062	ug/L	13.7	1.29%
QC value within limits for Mn 257.610 Recovery = 106.19%								
Mo 202.031	41381.2	1042	ug/L	5.1	1042	ug/L	5.1	0.49%
QC value within limits for Mo 202.031 Recovery = 104.18%								
Na 589.592	334652.4	26200	ug/L	58.2	26200	ug/L	58.2	0.22%
QC value within limits for Na 589.592 Recovery = 104.79%								
Ni 231.604	58699.9	1043	ug/L	7.1	1043	ug/L	7.1	0.68%
QC value within limits for Ni 231.604 Recovery = 104.31%								
P 213.617	30322.3	5152	ug/L	45.9	5152	ug/L	45.9	0.89%
QC value within limits for P 213.617 Recovery = 103.04%								
Pb 220.353	13418.5	1045	ug/L	3.2	1045	ug/L	3.2	0.31%
QC value within limits for Pb 220.353 Recovery = 104.50%								
Sb 206.836	6113.4	1060	ug/L	0.4	1060	ug/L	0.4	0.03%
QC value within limits for Sb 206.836 Recovery = 106.00%								
Se 196.026	4829.6	1052	ug/L	3.2	1052	ug/L	3.2	0.31%
QC value within limits for Se 196.026 Recovery = 105.25%								
Sn 189.927	6528.1	1057	ug/L	5.0	1057	ug/L	5.0	0.47%
QC value within limits for Sn 189.927 Recovery = 105.73%								
Sr 421.552	1033520.6	1058	ug/L	1.9	1058	ug/L	1.9	0.18%
QC value within limits for Sr 421.552 Recovery = 105.77%								
Ti 337.279	44384.3	1066	ug/L	12.6	1066	ug/L	12.6	1.18%
QC value within limits for Ti 337.279 Recovery = 106.65%								
Tl 190.801	6166.2	1041	ug/L	2.9	1041	ug/L	2.9	0.27%
QC value within limits for Tl 190.801 Recovery = 104.07%								
V 292.402	230371.4	1055	ug/L	6.2	1055	ug/L	6.2	0.58%
QC value within limits for V 292.402 Recovery = 105.49%								
Zn 206.200	75482.5	1056	ug/L	6.5	1056	ug/L	6.5	0.61%
QC value within limits for Zn 206.200 Recovery = 105.59%								

QC Failed. Continue with analysis.

Sequence No.: 26
Sample ID: CCB 121218RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/18/12 1:22:54 PM
Data Type: Reprocessed on 12/18/12 2:13:57 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 121218RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-36.9	-0.301	ug/L	0.7911	-0.301	ug/L	0.7911	262.91%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	18.5	11.61	ug/L	5.392	11.61	ug/L	5.392	46.46%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	-1.1	-0.242	ug/L	0.4039	-0.242	ug/L	0.4039	167.02%
QC value within limits for As 188.979 Recovery = Not calculated								
B	23.5	5.977	ug/L	1.2932	5.977	ug/L	1.2932	21.64%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	-11.4	-0.076	ug/L	0.0369	-0.076	ug/L	0.0369	48.29%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-167.0	-0.029	ug/L	0.0361	-0.029	ug/L	0.0361	123.71%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	-177.3	-16.33	ug/L	3.157	-16.33	ug/L	3.157	19.33%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-35.8	-0.129	ug/L	0.1106	-0.129	ug/L	0.1106	86.01%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	5.4	0.090	ug/L	0.0722	0.090	ug/L	0.0722	79.86%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-1130.9	-8.975	ug/L	0.0675	-8.975	ug/L	0.0675	0.75%
QC value less than the lower limit for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-635.4	-7.608	ug/L	0.1337	-7.608	ug/L	0.1337	1.76%
QC value less than the lower limit for Cu 327.393 Recovery = Not calculated								
Fe 273.955	-52.9	-2.277	ug/L	0.6787	-2.277	ug/L	0.6787	29.80%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	6.8	1.883	ug/L	45.2633	1.883	ug/L	45.2633	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	-26.5	-1.450	ug/L	0.3939	-1.450	ug/L	0.3939	27.16%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-23.2	-0.467	ug/L	0.1911	-0.467	ug/L	0.1911	40.89%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	0.3	0.007	ug/L	0.2529	0.007	ug/L	0.2529	>999.9%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-267.0	-20.92	ug/L	4.661	-20.92	ug/L	4.661	22.28%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-15.8	-0.282	ug/L	0.3568	-0.282	ug/L	0.3568	126.39%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-6.6	-1.126	ug/L	1.2302	-1.126	ug/L	1.2302	109.24%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-1.1	-0.088	ug/L	0.1500	-0.088	ug/L	0.1500	171.34%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	1.6	0.270	ug/L	0.3980	0.270	ug/L	0.3980	147.40%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-8.9	-1.915	ug/L	1.6232	-1.915	ug/L	1.6232	84.78%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	14.2	2.305	ug/L	0.3433	2.305	ug/L	0.3433	14.89%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	6.3	0.007	ug/L	0.0046	0.007	ug/L	0.0046	69.96%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	8.8	0.213	ug/L	0.2756	0.213	ug/L	0.2756	129.50%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	7.3	1.240	ug/L	0.5403	1.240	ug/L	0.5403	43.56%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-40.8	-0.267	ug/L	0.2208	-0.267	ug/L	0.2208	82.76%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-211.8	-3.022	ug/L	0.1475	-3.022	ug/L	0.1475	4.88%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	12/17/12	12/18/12	#6010B-121217A-AY72939

Metals SC-Blank-REG MDLs
Printed: 12/19/12 11:29:35 AM

Sequence No.: 17
Sample ID: 121217A-3050-BLK
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 83
Date Collected: 12/18/12 12:36:00 PM
Data Type: Reprocessed on 12/18/12 2:13:48 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121217A-3050-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	431.1	3.520	ug/L	0.3325	0.141	mg/kg	0.0133	9.45%
Al 308.215	2.8	1.672	ug/L	5.3923	0.067	mg/kg	0.2157	322.41%
As 188.979	8.0	1.796	ug/L	0.3848	0.072	mg/kg	0.0154	21.42%
B	24.0	6.116	ug/L	1.2638	0.245	mg/kg	0.0506	20.66%
Ba 233.527	6.8	0.030	ug/L	0.0673	0.001	mg/kg	0.0027	227.97%
Be 313.107	-480.8	-0.084	ug/L	0.0038	-0.003	mg/kg	0.0002	4.54%
Ca 315.887	167.3	13.42	ug/L	1.947	0.537	mg/kg	0.0779	14.50%
Cd 214.440	2.6	0.444	ug/L	0.0513	0.018	mg/kg	0.0021	11.56%
Co 228.616	20.1	-0.094	ug/L	0.1410	-0.004	mg/kg	0.0056	150.02%
Cr 267.716	106984.8	849.0	ug/L	83.37	33.96	mg/kg	3.335	9.82%
Cu 327.393	647.5	7.753	ug/L	0.5015	0.310	mg/kg	0.0201	6.47%
Fe 273.955	114.6	2.201	ug/L	0.4230	0.088	mg/kg	0.0169	19.22%
K 766.490	9.9	2.517	ug/L	39.7046	0.101	mg/kg	1.5882	>999.9%
Mg 285.213	41.1	1.826	ug/L	0.8260	0.073	mg/kg	0.0330	45.24%
Mn 257.610	-20.8	-0.339	ug/L	0.0511	-0.014	mg/kg	0.0020	15.08%
Mo 202.031	64.9	1.575	ug/L	0.0665	0.063	mg/kg	0.0027	4.22%
Na 589.592	510.2	39.77	ug/L	3.169	1.591	mg/kg	0.1267	7.97%
Ni 231.604	-79.2	-1.418	ug/L	0.2704	-0.057	mg/kg	0.0108	19.07%
P 213.617	288.1	48.94	ug/L	0.580	1.958	mg/kg	0.0232	1.19%
Pb 220.353	-43.4	-3.382	ug/L	0.2863	-0.135	mg/kg	0.0115	8.47%
Sb 206.836	56.9	9.866	ug/L	1.3433	0.395	mg/kg	0.0537	13.61%
Se 196.026	6.8	1.492	ug/L	0.8115	0.060	mg/kg	0.0325	54.39%
Sn 189.927	-3.0	-0.488	ug/L	0.3557	-0.020	mg/kg	0.0142	72.92%
Sr 421.552	43.2	0.042	ug/L	0.1158	0.002	mg/kg	0.0046	275.49%
Ti 337.279	47.9	1.154	ug/L	0.3405	0.046	mg/kg	0.0136	29.52%
Tl 190.801	-5.2	-0.882	ug/L	0.8134	-0.035	mg/kg	0.0325	92.25%
V 292.402	-1313.6	2.011	ug/L	0.1542	0.080	mg/kg	0.0062	7.67%
Zn 206.200	-697.2	-1.354	ug/L	0.1805	-0.054	mg/kg	0.0072	13.33%

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.2	102	80-120	12/17/12	12/18/12	#6010B-121217A-AY72939

Comments: _____

Sequence No.: 18
Sample ID: 121217A-3050-LCS
Analyst: EA
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 84
Date Collected: 12/18/12 12:40:22 PM
Data Type: Reprocessed on 12/18/12 2:13:49 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 121217A-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	12369.5	101.0	ug/L	0.30	4.039	mg/kg	0.0120	0.30%
Al 308.215	3178.3	2000	ug/L	10.7	80.02	mg/kg	0.428	0.54%
As 188.979	1088.5	243.3	ug/L	0.57	9.731	mg/kg	0.0229	0.24%
B	987.5	253.7	ug/L	1.15	10.15	mg/kg	0.046	0.45%
Ba 233.527	36349.7	246.4	ug/L	1.94	9.855	mg/kg	0.0777	0.79%
Be 313.107	285853.4	50.00	ug/L	0.269	2.000	mg/kg	0.0108	0.54%
Ca 315.887	274804.7	25340	ug/L	131.6	1014	mg/kg	5.3	0.52%
Cd 214.440	14818.9	51.69	ug/L	0.475	2.068	mg/kg	0.0190	0.92%
Co 228.616	15555.3	247.5	ug/L	3.23	9.899	mg/kg	0.1292	1.30%
Cr 267.716	116656.9	925.8	ug/L	50.35	37.03	mg/kg	2.014	5.44%
Cu 327.393	21100.9	252.6	ug/L	2.56	10.11	mg/kg	0.103	1.01%
Fe 273.955	24216.1	1042	ug/L	5.3	41.68	mg/kg	0.211	0.51%
K 766.490	15636.4	4295	ug/L	11.1	171.8	mg/kg	0.44	0.26%
Mg 285.213	463247.0	25370	ug/L	189.3	1015	mg/kg	7.6	0.75%
Mn 257.610	13275.7	266.3	ug/L	0.84	10.65	mg/kg	0.034	0.32%
Mo 202.031	10673.0	268.3	ug/L	0.35	10.73	mg/kg	0.014	0.13%
Na 589.592	314120.0	24610	ug/L	183.2	984.2	mg/kg	7.33	0.74%
Ni 231.604	14484.5	257.4	ug/L	3.00	10.29	mg/kg	0.120	1.17%
P 213.617	11418.0	1940	ug/L	19.5	77.60	mg/kg	0.781	1.01%
Pb 220.353	3270.5	254.7	ug/L	0.24	10.19	mg/kg	0.010	0.09%
Sb 206.836	1467.5	254.4	ug/L	0.96	10.18	mg/kg	0.038	0.38%
Se 196.026	1060.6	228.5	ug/L	2.47	9.138	mg/kg	0.0986	1.08%
Sn 189.927	1692.7	274.1	ug/L	1.46	10.97	mg/kg	0.058	0.53%
Sr 421.552	246772.8	252.5	ug/L	1.74	10.10	mg/kg	0.069	0.69%
Ti 337.279	11161.7	268.0	ug/L	1.04	10.72	mg/kg	0.042	0.39%
Tl 190.801	1454.8	245.5	ug/L	0.63	9.822	mg/kg	0.0252	0.26%
V 292.402	56099.0	264.3	ug/L	1.70	10.57	mg/kg	0.068	0.65%
Zn 206.200	35569.7	502.4	ug/L	4.66	20.10	mg/kg	0.186	0.93%

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 121217A **Units** mL

Spikes	
Spiked ID 1	LCSW LOT# 1039704-31514
Spiked ID 2	LCSW LOT# 1039705-31515
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 12/17/12 8:50:00 AM
Witnessed By	LO Date: 12/17/12 8:50:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	12/17/12 14:30

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	121217A Blk				2.50g	100mL	12/17/12 8:50	equip: Modblock4
2	121217A LCS		1mL	1+2	2.50g	100mL	12/17/12 8:50	equip: Modblock4
3	AY72939	AY72939M01			2.50g	100mL	12/17/12 8:50	equip: Modblock4
4	AY72939 MS	AY72939M01	2mL	1+2	2.50g	100mL	12/17/12 8:50	equip: Modblock4
5	AY72939 MSD	AY72939M01	2mL	1+2	2.50g	100mL	12/17/12 8:50	equip: Modblock4

Solvent and Lot#
1:1 HNO3 11-8-12
HNO3 J.T.B. L12065 0285
H2O2 J.T.B K20J00 0254
HCL BDH # 4112032 0284

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	EA
Date	12-17-12
Time	14:30
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	12/17/12 10:43:08 AM

Reviewed By: EA **Date:** 12-17-12

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	18 Dec 2012	11:09	CalBlk 121218RJS I:PB O:R		121218A6010	1.
2	18 Dec 2012	11:14	STD 1 121218RJS I:PB O:RJ		121218A6010	1.
3	18 Dec 2012	11:18	STD 2 121218RJS I:PB O:RJ		121218A6010	1.
4	18 Dec 2012	11:22	STD 3 121218RJS I:PB O:RJ		121218A6010	1.
5	18 Dec 2012	11:30	ICV 121218RJS I:PB O:RJS		121218A6010	1.
6	18 Dec 2012	11:35	ICB 121218RJS I:PB O:RJS		121218A6010	1.
8	18 Dec 2012	11:43	ICSA 121218RJS I:PB O:RJS		121218A6010	1.
9	18 Dec 2012	11:48	ICSAB 121218RJS I:PB O:RJ		121218A6010	1.
10	18 Dec 2012	11:53	CCV1 121218RJS I:PB O:RJS		121218A6010	1.
11	18 Dec 2012	12:05	CCB 121218RJS I:PB O:RJS		121218A6010	1.
15	18 Dec 2012	12:26	CCV2 121218RJS I:PB O:RJS		121218A6010	1.
16	18 Dec 2012	12:30	CCB 121218RJS I:PB O:RJS		121218A6010	1.
17	18 Dec 2012	12:36	121217A-3050-BLK		121218A6010	1.
18	18 Dec 2012	12:40	121217A-3050-LCS		121218A6010	1.
19	18 Dec 2012	12:44	AY72939M01		121218A6010	1.
22	18 Dec 2012	13:00	AY72939M01-A		121218A6010	1.
25	18 Dec 2012	13:14	CCV1 121218RJS I:PB O:RJS		121218A6010	1.
26	18 Dec 2012	13:22	CCB 121218RJS I:PB O:RJS		121218A6010	1.

WETLAB

Sample/Sample Duplicate Results

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Project: 748350.02000 CSSA

Sample ID: AY72939
Client ID: GT12033M

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

ARF: 69530

Method	Analyte	Sample ID	Sample Result	Sample Dup Result	RPD	RPD Max	PQL	Units	Sample Extract Date	Sample Analysis Date	Sample Dup Extract Date	Sample Dup Analysis Date
CLP MOIS	MOISTURE	AY72939	67.2	67.5	0.4	20	2.0	%	12/18/12	12/19/12	12/18/12	12/19/12

Printed: 12/19/12 12:42:43 PM

Wetlab Results

ARF: 69530

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
APPL ID: AY72939	-Client Sample ID: GT12033M		-Sample Collection Date: 12/12/12		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	67.2	2.0	%	12/18/12	12/19/12

Printed: 12/19/12 12:42:49 PM

% Moisture

Batch: QCG 121218-M004583

Method: CLP 4.0

Date: 12/18/12 16:13

Sample	Container	Pan (g)	Pan+Wet (g)	Pan+Dry 1 (g)	Pan+Dry 2 (g)	Moisture (%)	Comments
AY72939D	m01	0.8299 12/18/12 16:13	7.3887 12/18/12 16:15	2.9614 12/19/12 08:27	2.9610 12/19/12 08:27	67.508	ay72939m01
AY72939	m01	0.8335 12/18/12 16:10	7.2142 12/18/12 16:13	2.9237 12/19/12 08:27	2.9234 12/19/12 08:27	67.247	ay72939m01

Date/Time InOven@104°C	Date/Time OutOven@104°C	Date/Time InOven@104°C	Date/Time OutOven@104°C
12/18/12 4:16:00 PM			12/19/12 8:27:00 AM

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
12-17-12	CK	Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0003 g	19.9800	20.0200	
		Mettler AT200	50g	50.0009 g	49.9500	50.0500	
		Mettler AT200	100g	100.0018 g	99.9000	100.1000	
		Mettler AT200	150g	150.0026 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
12/18/12	BB						Yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0002 g	19.9800	20.0200	
		Mettler AT200	50g	50.0005 g	49.9500	50.0500	
		Mettler AT200	100g	100.0011 g	99.9000	100.1000	
		Mettler AT200	150g	150.0015 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.01 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.01 g	1960.00	2040.00	
12/19/12	BB						Yes
		Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0000 g	19.9800	20.0200	
		Mettler AT200	50g	50.0004 g	49.9500	50.0500	
		Mettler AT200	100g	100.0008 g	99.9000	100.1000	
		Mettler AT200	150g	150.0013 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.01 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.01 g	1960.00	2040.00	
		Mettler AT200	0.5g	g	0.4995	0.5005	
		Mettler AT200	1g	g	0.9990	1.0010	
		Mettler AT200	20g	g	19.9800	20.0200	
		Mettler AT200	50g	g	49.9500	50.0500	
		Mettler AT200	100g	g	99.9000	100.1000	
		Mettler AT200	150g	g	149.8500	150.1500	
		OHAUS ARC120	0.1g	g	0.08	0.12	
		OHAUS ARC120	0.5g	g	0.48	0.52	
		OHAUS ARC120	1g	g	0.98	1.02	
		OHAUS ARC120	100g	g	98.00	102.00	
		OHAUS ARC120	1kg	g	980.00	1020.00	
		OHAUS ARC120	2kg	g	1960.00	2040.00	

Laboratory Report

Parsons

Project #: 748350.02000 CSSA

ARF: 69676

Samples collected: January 6, 2013

APPL, Inc.

Data Validatable Package

for

Project #: 748350.02000 CSSA

ARF 69676

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CASE NARRATIVE

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

EPA Method 6010B
Metals

Case Narrative

ARF: 69676

Project: 748350.02000 CSSA

California State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Texas Certificate Number: T104704242-10-3

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

Four miscellaneous samples were received January 8, 2013, at 3.5°C. The samples were assigned Analytical Request Form (ARF) number 69676. The sample numbers and requested analyses were compared to the chains of custody and email communication. Sample GT13001 was discarded, as instructed. No other exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
GT13003B	AY73775	MISC	1/6/2013	1/8/2013
GT13003L	AY73776	MISC	1/6/2013	1/8/2013
GT13002B	AY73778	MISC	1/6/2013	1/8/2013
GT13002L	AY73779	MISC	1/6/2013	1/8/2013

Percent moisture was determined using CLP 4.0 for the liver sample. Percent moisture was not determined on the bone sample.

Digestion Information:

The liver sample was frozen and homogenized according to APPL's SOP PRE003. The bone sample was dried in the oven at 104°C; once dried, a drill was used to "shave" the bone and obtain a representative sample. An aliquot of the homogenized liver and bone samples was digested according to EPA method 3050B. Since the laboratory was unable to obtain a similar clean matrix, the blank and the LCS were digested according to APPL's SOP PRE3050B. No other exception was encountered. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed according to EPA method 6010B using a Perkin Elmer Optima 5300DV ICP.

Calibrations:

Calibrations were performed according to the method for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard. All other calibration acceptance criteria were met.

Blanks:

No target metal was detected above the reporting limit (RL) in the method blanks.

Spikes:

Laboratory Control Spikes (LCS), post-digestion spikes (PDS), and dilution tests (DT) were used for quality assurance. All LCS acceptance criteria were met.

Sample GT13002M from APPL SDG 69677 was selected by the laboratory as the QC sample for the 130109A analytical batch. The DT was not applicable. The PDS met acceptance criteria.

Sample GT13002L was selected by the laboratory as the QC sample for the 130123A analytical batch. The DT was not applicable. The PDS met acceptance criteria.

Summary:

No other analytical exception is noted.

CERTIFICATION

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. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

1-28-13

Sharon Dehmlow, Laboratory Director / Date

APPL Inc.
Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer.
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other – (See case narrative)
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel
U	Not detected
Y	Percent difference between primary and confirmation column > 40%

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 69676

Client: **Parsons**
Address: **8000 Centre Park Drive Ste 200**
Austin, TX 78754
Attn: **Tammy Chang**
Phone: **512-719-6092** Fax: **512-719-6099**
Job: **748350.02000 CSSA**
PO #: **748350.30002 (prime *G012)**
Chain of Custody (Y/N): **Y** # **010713APPFA**
RAD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **STD**

Received by: **WLA**
Date Received: **01/08/13** Time: **12:05**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-6**
Chest Temp(s): **3.5°C**
Color: **A_FREZ**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Diane Anderson** dp
QC Report Type: **DVP4/AFCEE/ERPIMS/TX**
Due Date: **01/29/13**

Comments:
pdf ARF to Tammy & Pam; send 1 DVP3 HC & send DVP3 & DVP4 on CD to Tammy.
Case Narrative. CSSA QAPP. Only report MS/MSD when requested.
Report results on APPL forms: U to the RL-no J values;
report results in wet weight (without moisture correction)
Wait to do moisture analysis after metals analysis.
EDD: ERPIMS 4 Lab PC4 checked TXF to Pamela.Ford@parsons.com
Please see attached email for sample cancellation. 01/08/12 cm

1-9-13 Sent ARF

Sample Distribution:
Metals: 4-$6010BDODS(Pb)
Wetlab: 2-MOIST
Other: 4-_M3050

Charges:

Invoice To:
PARSONS GOV'T SERV.
8000 Centre Park Drive Ste 200
Austin, TX 78754-5140
Attn: Ellen Felfe

	Client ID	APPL ID	Sampled	Analyses Requested
1.	GT13003B	AY73775M	01/06/13 13:45	$6010BDODS(Pb)
2.	GT13003L	AY73776M	01/06/13 13:45	$6010BDODS(Pb), MOIST
3.	GT13002B	AY73778M	01/06/13 15:00	$6010BDODS(Pb)
4.	GT13002L	AY73779M	01/06/13 15:00	$6010BDODS(Pb), MOIST

APPL Sample Receipt Form

ARF# **69676**

Sample	Container Type	Count	pH
AY73775	35 Plastic Bag	1	NA
AY73776	35 Plastic Bag	1	NA
AY73778	35 Plastic Bag	1	NA
AY73779	35 Plastic Bag	1	NA

Sample	Container Type	Count	pH

Chue Moua

From: Renee Patterson [rpatterson@applinc.com]
Sent: Tuesday, January 08, 2013 2:25 PM
To: receiving@applinc.com
Cc: 'Chue Moua'
Subject: FW: animal tissue samples
Attachments: image001.jpg; DOC010813.pdf

please discard the turkey samples GT13001

Doe muscle GT13002M & GT13003M on 7-day TAT. Doe bone GT13002B & GT13003B and liver GT13002L & GT13003L on STD TAT.

From: Chang, Tammy [mailto:Tammy.Chang@parsons.com]
Sent: Tuesday, January 08, 2013 2:06 PM
To: Renee Patterson; Diane Anderson
Cc: Burdey, Julie; de las Fuentes, Sandra
Subject: RE: animal tissue samples

Discard
Thanks

Tammy

From: Renee Patterson [mailto:rpatterson@applinc.com]
Sent: Tuesday, January 08, 2013 3:04 PM
To: Chang, Tammy; 'Diane Anderson'
Subject: RE: animal tissue samples

Tammy,

We've received the animal tissue samples. As described below, all body parts for samples GT13001 and GT13003 are together in one bag. Now that the contents have defrosted, it is easy enough to tell them apart. The doe (GT13003) muscle, liver and bone are easily separated into samples GT13003M, GT13003L, and GT13003B.

What shall we do with the 4 distinct body parts from the turkey GT13001? gizzard, bone, lung, and heart?

Thank you for your help,

renée

From: Chang, Tammy [mailto:Tammy.Chang@parsons.com]
Sent: Monday, January 07, 2013 2:51 PM
To: rpatterson@applinc.com; Diane Anderson; rwise; Jeremy Hale
Subject: FW: animal tissue samples

More detail instructions will come from our PM tonight or tomorrow morning.
Tammy

From: Elliott, Samantha
Sent: Monday, January 07, 2013 1:32 PM
To: Chang, Tammy

Cc: Rembish, Steve J; de las Fuentes, Sandra; Burdey, Julie; Cannizzo, James V CIV USA IMCOM; Ford, Pamela
Subject: animal tissue samples

Tammy,

One cooler going to APPL today with 1 turkey and 2 doe samples. The label on the turkey sample (GT13001) provided by the hunter said gizzard, heart, lung, and bone. All the turkey parts were frozen together so I could not separate them apart or figure out what was what unless I thaw it out. I went ahead a stuck with the same naming convention and put all the labels on one bag. Sample GT13003 didn't look like it was all there, same problem, everything was frozen together so all labels were placed on one bag. I'm sending all of the sample the hunters provided. See attached. Also attached it the updated hunting log.

Thanks,
Samantha Elliott
Scientist
(210) 347-6012
PARSONS

--
This message has been scanned for viruses and
dangerous content by **MailScanner**, and is
believed to be clean.

Camp Stanley Storage Activity Chain Of Custody

69676 3.5°c

COC ID:	010713APPFA	Relinquish_Date:	1/7/2013	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF
Job Number:	748350.02000	Relinquish_Time:	2:00 PM	Carrier:	FedEx
Creation Date:	1/7/2013	Collection Team:	SE	Airbill Carrier:	876436444866
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): Sam Elliott
Sam Elliott

LOCID: **GT13001B** LOGDATE: 1/5/2013 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 9:45 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT13001B_010513_N0945 EBLOT: Containers: 1
Remarks: turkey
Analysis Required: SW6010B LEAD

LOCID: **GT13001L** LOGDATE: 1/5/2013 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 9:45 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT13001L_010513_N0945 EBLOT: Containers: 1
Remarks: turkey
Analysis Required: SW6010B LEAD

LOCID: **GT13001M** LOGDATE: 1/5/2013 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 9:45 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT13001M_010513_N0945 EBLOT: Containers: 1
Remarks: turkey
Analysis Required: SW6010B LEAD

LOCID: **GT13003B** LOGDATE: 1/6/2013 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 13:45 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT13003B_010613_N1345 EBLOT: Containers: 1
Remarks: doe
Analysis Required: SW6010B LEAD

LOCID: **GT13003L** LOGDATE: 1/6/2013 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 13:45 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT13003L_010613_N1345 EBLOT: Containers: 1
Remarks: doe
Analysis Required: SW6010B LEAD

LOCID: **GT13003M** LOGDATE: 1/6/2013 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 13:45 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT13003M_010613_N1345 EBLOT: Containers: 1
Remarks: doe
Analysis Required: SW6010B LEAD

LOCID: **GT13002B** LOGDATE: 1/6/2013 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 15:00 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT13002B_010613_N1500 EBLOT: Containers: 1
Remarks: doe
Analysis Required: SW6010B LEAD

LOCID: **GT13002L** LOGDATE: 1/6/2013 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 15:00 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT13002L_010613_N1500 EBLOT: Containers: 1
Remarks: doe
Analysis Required: SW6010B LEAD

Relinquished by: S. Elliott Date 1/7/13 Time 1400
Recieved by: Will Jole Date 1/8/13 Time 1205

Relinquished by:_____ Date_____ Time____
Recieved by:_____ Date_____ Time____

Relinquished by:_____ Date_____ Time____
Recieved by:_____ Date_____ Time____

Camp Stanley Storage Activity Chain Of Custody

COC ID:	010713APPFA	Relinquish_Date:	1/7/2013	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF
Job Number:	748350.02000	Relinquish_Time:	2:00 PM	Carrier:	FedEx
Creation Date:	1/7/2013	Collection Team:	SE	Airbill Carrier:	876436444866
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): Sam Elliott

Sam Elliott

LOCID: **GT13002M** LOGDATE: 1/6/2013 MATRIX: TA TBLOT:

SBD: 0 LOGTIME: 15:00 SACODE: N SMCODE: G ABLOT:

SED: 0 FLDSAMPID GT13002M_010613_N1500 EBLOT:

Containers: 1

Remarks: doe

Analysis Required:

SW6010B LEAD

Relinquished by: S. E. Elliott Date 1/7/13 Time 1400

Recieved by: [illegible] Date 1/8/13 Time 1205

Relinquished by:_____ Date_____ Time____

Recieved by:_____ Date_____ Time____

Relinquished by:_____ Date_____ Time____

Recieved by:_____ Date_____ Time____

COOLER RECEIPT FORM

1) Project: 749350.02000 CSSA Date Received: 1/8/13

2) Coolers: Number of Coolers: 1

3) YES NO Were coolers and samples screened for radioactivity?

4) YES NO Were custody seals on outside of cooler? How many? 1 Date on seal? 1/7/13

5) Name on seal? See label

6) YES NO NA Were custody seals unbroken and intact at the time of arrival?

7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex

8) Shipping slip numbers: 1) 8764 3644 4866 2) 3)

9) YES NO NA Was the shipping slip scanned into the database?

10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Ziploc, in wet ice

12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?

13) YES NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: JS297 Correction factor: 0

15) Cooler temp(s): 1) 3.5°C 2) 3) 4) 5) 6) 7) 8)

Chain of custody:

16) YES NO Was a chain of custody received?

17) YES NO Were the custody papers signed in the appropriate places?

18) YES NO Was the project identifiable from custody papers?

19) YES NO Did the chain of custody include date and time of sampling?

20) YES NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) YES NO Were container labels in good condition?

22) YES NO Was the client ID on the label?

23) YES NO Was the date of sampling on the label?

24) YES NO Was the time of sampling on the label?

25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?

27) YES NO Did all containers arrive unbroken?

28) YES NO Was there any leakage from samples?

29) YES NO Were any of the lids cracked or broken?

30) YES NO Were correct containers used for the tests indicated?

31) YES NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea:

Smaller than a pea:

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO NA Unpreserved VOA Vials received?

38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

Lab notified if pH was not adequate:

Deficiencies:

Signature of personnel receiving samples: Young Lin Second reviewer:

Signature of project manager notified: Date and Time of notification:

Name of client notified: Date and Time of notification:

Information given to client:

by whom (Initials):

CUSTODY SEAL

APPL, Inc.

(559) 275-2175

Initials

Date 1/7/13

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	01/09/13	01/09/13	#6010B-130109A-AY73780
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	01/23/13	01/23/13	#6010B-130123A-AY73779

Metals SC-Blank-REG MDLs
Printed: 01/28/13 12:22:42 PM

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	9.7	97.0	80-120	01/09/13	01/09/13	#6010B-130109A-AY73780

Comments: _____

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.7	107	80-120	01/23/13	01/23/13	#6010B-130123A-AY73779

Comments: _____

METALS
Sample Data

APPL, INC.

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT13003B
Sample Collection Date: 01/06/13

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69676
APPL ID: AY73775

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	1.1	0.50	mg/kg	1	01/23/13	01/23/13

Printed: 01/28/13 12:22:24 PM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 82
Sample ID: AY73775M01
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 1.41 g
Dilution:

Autosampler Location: 127
Date Collected: 01/23/13 6:39:38 PM
Data Type: Reprocessed on 01/24/13 9:32:16 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY73775M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	870.1	7.645	ug/L	0.5762	0.542	mg/kg	0.0409	7.54%
Al 308.215	245.6	133.3	ug/L	5.01	9.455	mg/kg	0.3552	3.76%
As 188.979	75.9	16.64	ug/L	1.778	1.180	mg/kg	0.1261	10.68%
B	190.7	-3.285	ug/L	1.4951	-0.233	mg/kg	0.1060	45.51%
Ba 233.527	80148.4	538.9	ug/L	6.04	38.22	mg/kg	0.428	1.12%
Be 313.107	-4440.4	-0.808	ug/L	0.0203	-0.057	mg/kg	0.0014	2.51%
Ca 315.887	21295236.4	2152000	ug/L	14286.1	152600	mg/kg	1013.2	0.66%
Cd 214.440	518.6	-2.987	ug/L	0.0620	-0.212	mg/kg	0.0044	2.07%
Co 228.616	168.4	-4.389	ug/L	0.3462	-0.311	mg/kg	0.0246	7.89%
Cr 267.716	4797.8	33.18	ug/L	0.177	2.353	mg/kg	0.0125	0.53%
Cu 327.393	569.0	8.167	ug/L	1.1014	0.579	mg/kg	0.0781	13.49%
Fe 273.955	17464.5	705.6	ug/L	1.44	50.04	mg/kg	0.102	0.20%
K 766.490	20884.4	8219	ug/L	57.7	582.9	mg/kg	4.09	0.70%
Mg 285.213	782521.2	42230	ug/L	223.7	2995	mg/kg	15.9	0.53%
Mn 257.610	448.8	0.120	ug/L	0.5434	0.008	mg/kg	0.0385	454.33%
Mo 202.031	-27.9	-11.50	ug/L	0.260	-0.816	mg/kg	0.0185	2.26%
Na 589.592	678555.1	67140	ug/L	277.5	4762	mg/kg	19.7	0.41%
Ni 231.604	2489.3	43.18	ug/L	0.127	3.062	mg/kg	0.0090	0.29%
P 213.617	5548094.9	898300	ug/L	3899.7	63710	mg/kg	276.6	0.43%
Pb 220.353	199.6	14.81	ug/L	1.576	1.050	mg/kg	0.1117	10.64%
Sb 206.836	3.9	0.688	ug/L	0.9109	0.049	mg/kg	0.0646	132.32%
Se 196.026	23.8	-27.12	ug/L	1.613	-1.923	mg/kg	0.1144	5.95%
Sn 189.927	300.1	45.65	ug/L	1.601	3.238	mg/kg	0.1135	3.51%
Sr 421.552	598003.1	771.6	ug/L	3.64	54.72	mg/kg	0.258	0.47%
Ti 337.279	267.4	1.847	ug/L	0.6814	0.131	mg/kg	0.0483	36.89%
Tl 190.801	-16.9	-2.847	ug/L	0.4457	-0.202	mg/kg	0.0316	15.65%
V 292.402	148.8	-0.668	ug/L	0.2033	-0.047	mg/kg	0.0144	30.42%
Zn 206.200	76609.3	947.7	ug/L	11.12	67.21	mg/kg	0.789	1.17%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT13003L
Sample Collection Date: 01/06/13

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69676
APPL ID: AY73776

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	01/09/13	01/09/13

Printed: 01/28/13 12:22:24 PM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 21
Sample ID: AY73776M01
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.48 g
Dilution:

Autosampler Location: 51
Date Collected: 01/09/13 3:38:56 PM
Data Type: Reprocessed on 01/10/13 3:53:23 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY73776M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	231.8	1.658	ug/L	0.3066	0.067	mg/kg	0.0124	18.50%
Al 308.215	12.0	28.13	ug/L	13.428	1.134	mg/kg	0.5414	47.73%
As 188.979	34.7	6.136	ug/L	1.1330	0.247	mg/kg	0.0457	18.47%
B	32.0	45.38	ug/L	2.306	1.830	mg/kg	0.0930	5.08%
Ba 233.527	437.5	0.812	ug/L	0.0836	0.033	mg/kg	0.0034	10.30%
Be 313.107	-299.3	-0.044	ug/L	0.0072	-0.002	mg/kg	0.0003	16.59%
Ca 315.887	5242.3	1408	ug/L	1.6	56.76	mg/kg	0.065	0.11%
Cd 214.440	1788.6	4.652	ug/L	0.0226	0.188	mg/kg	0.0009	0.49%
Co 228.616	140.6	1.744	ug/L	0.1859	0.070	mg/kg	0.0075	10.66%
Cr 267.716	449.5	2.860	ug/L	0.1815	0.115	mg/kg	0.0073	6.35%
Cu 327.393	96778.8	1035	ug/L	6.2	41.72	mg/kg	0.249	0.60%
Fe 273.955	73781.4	2607	ug/L	16.5	105.1	mg/kg	0.67	0.63%
K 766.490	22127.4	54520	ug/L	289.7	2198	mg/kg	11.7	0.53%
Mg 285.213	28668.6	4726	ug/L	17.8	190.6	mg/kg	0.72	0.38%
Mn 257.610	1214.1	98.12	ug/L	0.547	3.956	mg/kg	0.0220	0.56%
Mo 202.031	1058.2	22.29	ug/L	0.115	0.899	mg/kg	0.0046	0.52%
Na 589.592	32882.5	24540	ug/L	148.5	989.4	mg/kg	5.99	0.61%
Ni 231.604	10.9	0.101	ug/L	0.1308	0.004	mg/kg	0.0053	130.00%
P 213.617	553596.2	73140	ug/L	234.2	2949	mg/kg	9.4	0.32%
Pb 220.353	-23.1	-1.415	ug/L	0.2912	-0.057	mg/kg	0.0117	20.58%
Sb 206.836	-1.8	-0.252	ug/L	0.3183	-0.010	mg/kg	0.0128	126.13%
Se 196.026	139.2	23.03	ug/L	2.070	0.928	mg/kg	0.0835	8.99%
Sn 189.927	-46.6	-5.847	ug/L	0.7639	-0.236	mg/kg	0.0308	13.06%
Sr 421.552	304.1	9.099	ug/L	0.2108	0.367	mg/kg	0.0085	2.32%
Ti 337.279	4.6	-0.002	ug/L	0.5819	0.000	mg/kg	0.0235	>999.9%
Tl 190.801	1.9	0.262	ug/L	0.3156	0.011	mg/kg	0.0127	120.51%
V 292.402	-76.4	-0.642	ug/L	0.3305	-0.026	mg/kg	0.0133	51.45%
Zn 206.200	64816.2	683.8	ug/L	4.18	27.57	mg/kg	0.169	0.61%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT13002B
Sample Collection Date: 01/06/13

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69676
APPL ID: AY73778

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	01/23/13	01/23/13

Printed: 01/28/13 12:22:24 PM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 83
Sample ID: AY73778M01
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 1.37 g
Dilution:

Autosampler Location: 128
Date Collected: 01/23/13 6:45:22 PM
Data Type: Reprocessed on 01/24/13 9:32:17 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY73778M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	652.1	5.729	ug/L	0.3473	0.418	mg/kg	0.0253	6.06%
Al 308.215	124.0	54.24	ug/L	1.921	3.959	mg/kg	0.1402	3.54%
As 188.979	66.1	14.50	ug/L	1.175	1.058	mg/kg	0.0858	8.11%
B	143.5	-3.444	ug/L	1.3318	-0.251	mg/kg	0.0972	38.67%
Ba 233.527	46365.3	311.2	ug/L	4.93	22.72	mg/kg	0.360	1.58%
Be 313.107	-3988.2	-0.726	ug/L	0.0292	-0.053	mg/kg	0.0021	4.02%
Ca 315.887	16385204.0	1656000	ug/L	25453.3	120900	mg/kg	1857.9	1.54%
Cd 214.440	3211.1	6.457	ug/L	0.0391	0.471	mg/kg	0.0029	0.60%
Co 228.616	160.9	-2.947	ug/L	0.1617	-0.215	mg/kg	0.0118	5.49%
Cr 267.716	4628.9	33.10	ug/L	0.176	2.416	mg/kg	0.0129	0.53%
Cu 327.393	150.7	2.163	ug/L	1.1922	0.158	mg/kg	0.0870	55.13%
Fe 273.955	12250.7	491.5	ug/L	1.42	35.88	mg/kg	0.103	0.29%
K 766.490	9037.6	3280	ug/L	105.4	239.4	mg/kg	7.69	3.21%
Mg 285.213	567435.9	30620	ug/L	234.9	2235	mg/kg	17.1	0.77%
Mn 257.610	473.6	3.263	ug/L	0.1627	0.238	mg/kg	0.0119	4.99%
Mo 202.031	-42.7	-9.431	ug/L	0.6040	-0.688	mg/kg	0.0441	6.40%
Na 589.592	567053.0	56120	ug/L	495.7	4096	mg/kg	36.2	0.88%
Ni 231.604	19232.5	337.7	ug/L	0.62	24.65	mg/kg	0.045	0.18%
P 213.617	4321172.1	699700	ug/L	8919.5	51070	mg/kg	651.1	1.27%
Pb 220.353	3.0	0.222	ug/L	0.6428	0.016	mg/kg	0.0469	288.96%
Sb 206.836	-5.2	-0.907	ug/L	2.2023	-0.066	mg/kg	0.1608	242.77%
Se 196.026	40.4	-16.15	ug/L	1.439	-1.179	mg/kg	0.1051	8.91%
Sn 189.927	13.3	2.027	ug/L	0.7520	0.148	mg/kg	0.0549	37.11%
Sr 421.552	284283.6	362.5	ug/L	3.10	26.46	mg/kg	0.227	0.86%
Ti 337.279	148.1	0.002	ug/L	0.4109	0.000	mg/kg	0.0300	>999.9%
Tl 190.801	-16.6	-2.810	ug/L	0.6965	-0.205	mg/kg	0.0508	24.79%
V 292.402	62.4	-0.693	ug/L	0.0960	-0.051	mg/kg	0.0070	13.86%
Zn 206.200	48090.1	595.5	ug/L	8.61	43.46	mg/kg	0.628	1.45%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT13002L
Sample Collection Date: 01/06/13

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69676
APPL ID: AY73779

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	01/23/13	01/23/13

Printed: 01/28/13 12:22:24 PM
APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 84
Sample ID: AY73779M01
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.55 g
Dilution:

Autosampler Location: 129
Date Collected: 01/23/13 6:51:02 PM
Data Type: Reprocessed on 01/24/13 9:32:17 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY73779M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-6.7	-0.059	ug/L	0.5954	-0.002	mg/kg	0.0234	>999.9%
Al 308.215	25.6	18.92	ug/L	6.210	0.742	mg/kg	0.2435	32.83%
As 188.979	10.3	2.261	ug/L	1.4560	0.089	mg/kg	0.0571	64.39%
B	24.7	10.50	ug/L	1.540	0.412	mg/kg	0.0604	14.66%
Ba 233.527	303.8	1.201	ug/L	0.0276	0.047	mg/kg	0.0011	2.30%
Be 313.107	-694.8	-0.126	ug/L	0.0060	-0.005	mg/kg	0.0002	4.74%
Ca 315.887	15923.4	1604	ug/L	2.9	62.91	mg/kg	0.112	0.18%
Cd 214.440	2262.8	7.119	ug/L	0.0892	0.279	mg/kg	0.0035	1.25%
Co 228.616	121.3	1.843	ug/L	0.2736	0.072	mg/kg	0.0107	14.85%
Cr 267.716	432.5	3.398	ug/L	0.0339	0.133	mg/kg	0.0013	1.00%
Cu 327.393	122910.4	1764	ug/L	31.8	69.18	mg/kg	1.247	1.80%
Fe 273.955	32639.6	1415	ug/L	21.6	55.47	mg/kg	0.846	1.53%
K 766.490	142392.8	61660	ug/L	484.7	2418	mg/kg	19.0	0.79%
Mg 285.213	75589.1	4082	ug/L	21.9	160.1	mg/kg	0.86	0.54%
Mn 257.610	3166.4	76.18	ug/L	0.342	2.987	mg/kg	0.0134	0.45%
Mo 202.031	657.1	17.31	ug/L	0.132	0.679	mg/kg	0.0052	0.76%
Na 589.592	195241.6	19360	ug/L	116.0	759.2	mg/kg	4.55	0.60%
Ni 231.604	-114.3	-2.064	ug/L	0.2547	-0.081	mg/kg	0.0100	12.34%
P 213.617	444738.8	72010	ug/L	1394.9	2824	mg/kg	54.7	1.94%
Pb 220.353	-8.8	-0.652	ug/L	0.4369	-0.026	mg/kg	0.0171	66.96%
Sb 206.836	-9.0	-1.573	ug/L	0.7410	-0.062	mg/kg	0.0291	47.11%
Se 196.026	143.2	28.99	ug/L	2.990	1.137	mg/kg	0.1172	10.31%
Sn 189.927	25.7	3.913	ug/L	1.0748	0.153	mg/kg	0.0422	27.47%
Sr 421.552	701.6	1.061	ug/L	0.1148	0.042	mg/kg	0.0045	10.82%
Ti 337.279	34.6	0.546	ug/L	0.1718	0.021	mg/kg	0.0067	31.47%
Tl 190.801	-0.7	-0.111	ug/L	0.2030	-0.004	mg/kg	0.0080	182.45%
V 292.402	-177.4	-0.923	ug/L	0.5126	-0.036	mg/kg	0.0201	55.51%
Zn 206.200	69662.5	859.6	ug/L	13.09	33.71	mg/kg	0.513	1.52%

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No: 69676 SDG: 69676

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 01/09/13 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 14:07	%R(1)	True CCV1	Found 14:36	%R(1)	True CCV2	Found 15:15	%R(1)	
Lead (Pb)	1000	1007	101	1000	984.5	98.5	750	779.1	104	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No: 69676 SDG: 69676

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 01/09/13 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 14:07	%R(1)	True CCV1	Found 16:17	%R(1)	True	Found	%R(1)	
Lead (Pb)	1000	1007	101	1000	990.3	99.0				P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69676 SDG: 69676

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 01/09/13

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C			
	14:12		14:44		15:21		16:24				15:28		
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U			.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69676 SDG: 69676

ICP ID Number: Phoebe ICS Source: Environmental Express

Analysis Date: 01/09/13 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 14:21	Sol AB 14:26	%R(1)
Aluminum (Al)	200000	200000	204800	209900	105
Calcium (Ca)	200000	200000	198900	202300	101
Iron (Fe)	200000	200000	178700	177700	88.8
Magnesium (Mg)	200000	200000	199300	203200	102
Lead (Pb)		1000	0.863	913.8	91.4

(1) Control Limits: Metals 80-120

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No: 69676 SDG: 69676

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 01/23/13 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 12:05	%R(1)	True CCV1	Found 12:38	%R(1)	True CCV1	Found 18:16	%R(1)	
Lead (Pb)	1000	1037	104	1000	1043	104	1000	1070	107	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No: 69676 SDG: 69676

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 01/23/13 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 12:05	%R(1)	True CCV2	Found 19:20	%R(1)	True	Found	%R(1)	
Lead (Pb)	1000	1037	104	750	784.6	105				P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69676 SDG: 69676

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 01/23/13

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	12:15		12:42		18:21		19:26		18:29		
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No.: 69676 SDG: 69676
ICP ID Number: Phoebe ICS Source: Environmental Express

Analysis Date: 01/23/13 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 12:23	Sol AB 12:28	%R(1)
Aluminum (Al)	200000	200000	195600	193700	96.8
Calcium (Ca)	200000	200000	201500	199600	99.8
Iron (Fe)	200000	200000	189900	188800	94.4
Magnesium (Mg)	200000	200000	199200	197500	98.8
Lead (Pb)		1000	1.924	966.2	96.6

(1) Control Limits: Metals 80-120

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

GT13002M

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69677 SDG: 69677

Analysis Date: 01/09/13 Concentration Units: mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	19.06		ND		20.243	94.2		

Comments:

01/09/13 15:49 AY73780M01

01/09/13 16:05 AY73780M01-A

Sequence No.: 26
Sample ID: AY73780M01-A
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.47 g
Dilution:

Autosampler Location: 56
Date Collected: 01/09/13 4:05:48 PM
Data Type: Reprocessed on 01/10/13 3:53:28 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY73780M01-A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	25633.1	183.3	ug/L	0.68	7.421	mg/kg	0.0273	0.37%
Al 308.215	2288.2	5389	ug/L	13.3	218.2	mg/kg	0.54	0.25%
As 188.979	2505.3	443.4	ug/L	0.51	17.95	mg/kg	0.021	0.11%
B	635.4	715.7	ug/L	4.99	28.98	mg/kg	0.202	0.70%
Ba 233.527	85134.5	464.1	ug/L	3.91	18.79	mg/kg	0.159	0.84%
Be 313.107	643726.5	93.94	ug/L	0.707	3.803	mg/kg	0.0286	0.75%
Ca 315.887	217883.9	58690	ug/L	960.5	2376	mg/kg	38.9	1.64%
Cd 214.440	36203.3	96.48	ug/L	0.812	3.906	mg/kg	0.0329	0.84%
Co 228.616	37797.4	480.1	ug/L	3.73	19.44	mg/kg	0.151	0.78%
Cr 267.716	74418.1	487.2	ug/L	3.92	19.72	mg/kg	0.159	0.80%
Cu 327.393	49528.0	529.6	ug/L	2.42	21.44	mg/kg	0.098	0.46%
Fe 273.955	70809.3	2458	ug/L	20.4	99.50	mg/kg	0.827	0.83%
K 766.490	36637.5	90270	ug/L	561.4	3655	mg/kg	22.7	0.62%
Mg 285.213	406384.5	66980	ug/L	968.1	2712	mg/kg	39.2	1.45%
Mn 257.610	8079.6	650.8	ug/L	0.71	26.35	mg/kg	0.029	0.11%
Mo 202.031	22958.6	476.2	ug/L	0.34	19.28	mg/kg	0.014	0.07%
Na 589.592	161766.4	120800	ug/L	1265.6	4890	mg/kg	51.2	1.05%
Ni 231.604	34157.5	490.6	ug/L	5.30	19.86	mg/kg	0.215	1.08%
P 213.617	350362.9	46290	ug/L	421.9	1874	mg/kg	17.1	0.91%
Pb 220.353	7667.8	470.7	ug/L	0.43	19.06	mg/kg	0.017	0.09%
Sb 206.836	3085.0	424.8	ug/L	1.81	17.20	mg/kg	0.073	0.43%
Se 196.026	2741.8	459.0	ug/L	0.51	18.58	mg/kg	0.021	0.11%
Sn 189.927	3896.1	489.2	ug/L	4.15	19.81	mg/kg	0.168	0.85%
Sr 421.552	51744.0	1530	ug/L	15.3	61.95	mg/kg	0.620	1.00%
Ti 337.279	7035.9	472.1	ug/L	0.42	19.11	mg/kg	0.017	0.09%
Tl 190.801	3390.8	469.7	ug/L	2.19	19.01	mg/kg	0.089	0.47%
V 292.402	126480.2	487.7	ug/L	2.76	19.74	mg/kg	0.112	0.57%
Zn 206.200	145634.0	1542	ug/L	12.9	62.44	mg/kg	0.522	0.84%

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

GT13002L

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69676 SDG: 69676

Analysis Date: 01/23/13 Concentration Units: mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	21.25		ND		19.608	108		

Comments:

01/23/13 18:51 AY73779M01

01/23/13 19:05 AY73779M01-A

Sequence No.: 87
Sample ID: AY73779M01-A
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.55 g
Dilution:

Autosampler Location: 132
Date Collected: 01/23/13 7:05:35 PM
Data Type: Reprocessed on 01/24/13 9:32:20 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY73779M01-A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	22184.9	194.9	ug/L	1.73	7.644	mg/kg	0.0679	0.89%
Al 308.215	5665.9	4225	ug/L	51.7	165.7	mg/kg	2.03	1.22%
As 188.979	2256.9	495.1	ug/L	2.78	19.42	mg/kg	0.109	0.56%
B	2167.9	551.5	ug/L	16.29	21.63	mg/kg	0.639	2.95%
Ba 233.527	75358.0	507.6	ug/L	5.71	19.91	mg/kg	0.224	1.13%
Be 313.107	562033.3	102.3	ug/L	1.03	4.013	mg/kg	0.0405	1.01%
Ca 315.887	570054.4	57590	ug/L	96.4	2258	mg/kg	3.8	0.17%
Cd 214.440	35496.1	111.8	ug/L	1.27	4.385	mg/kg	0.0497	1.13%
Co 228.616	33983.5	528.2	ug/L	5.92	20.71	mg/kg	0.232	1.12%
Cr 267.716	65137.0	525.6	ug/L	5.04	20.61	mg/kg	0.198	0.96%
Cu 327.393	157508.6	2261	ug/L	27.0	88.65	mg/kg	1.060	1.20%
Fe 273.955	80380.5	3441	ug/L	39.0	135.0	mg/kg	1.53	1.13%
K 766.490	159734.9	69160	ug/L	226.1	2712	mg/kg	8.9	0.33%
Mg 285.213	1110142.6	59960	ug/L	118.5	2351	mg/kg	4.6	0.20%
Mn 257.610	27016.9	648.8	ug/L	3.27	25.44	mg/kg	0.128	0.50%
Mo 202.031	20694.8	537.2	ug/L	2.41	21.07	mg/kg	0.095	0.45%
Na 589.592	715092.1	70960	ug/L	164.3	2783	mg/kg	6.4	0.23%
Ni 231.604	31036.0	544.4	ug/L	5.54	21.35	mg/kg	0.217	1.02%
P 213.617	460809.6	74610	ug/L	1075.1	2926	mg/kg	42.2	1.44%
Pb 220.353	7303.9	541.9	ug/L	1.70	21.25	mg/kg	0.067	0.31%
Sb 206.836	2650.8	464.6	ug/L	1.14	18.22	mg/kg	0.045	0.25%
Se 196.026	2513.4	528.6	ug/L	4.28	20.73	mg/kg	0.168	0.81%
Sn 189.927	3831.4	582.9	ug/L	4.72	22.86	mg/kg	0.185	0.81%
Sr 421.552	404823.0	532.1	ug/L	1.22	20.87	mg/kg	0.048	0.23%
Ti 337.279	22113.0	558.2	ug/L	2.85	21.89	mg/kg	0.112	0.51%
Tl 190.801	3119.3	526.9	ug/L	2.06	20.66	mg/kg	0.081	0.39%
V 292.402	108940.5	529.3	ug/L	5.59	20.76	mg/kg	0.219	1.06%
Zn 206.200	147073.9	1820	ug/L	22.6	71.37	mg/kg	0.887	1.24%

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 130109A6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1 Autosampler Location: 1
Sample ID: CalBlk 130109RJS I:PB O:R Date Collected: 01/09/13 1:50:43 PM
Analyst: Data Type: Reprocessed on 01/10/13 3:53:03 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CalBlk 130109RJS I:PB O:R

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-188.0	87.11	46.33%	[0.00]	ug/L
Al 308.215	60.6	4.99	8.22%	[0.00]	ug/L
As 188.979	-0.4	3.39	770.32%	[0.00]	ug/L
B	1.7	1.78	103.19%	[0.00]	ug/L
Ba 233.527	112.5	6.63	5.89%	[0.00]	ug/L
Be 313.107	2147.1	181.14	8.44%	[0.00]	ug/L
Ca 315.887	-0.2	3.29	>999.9%	[0.00]	ug/L
Cd 214.440	461.0	13.34	2.89%	[0.00]	ug/L
Co 228.616	50.9	16.93	33.30%	[0.00]	ug/L
Cr 267.716	657.5	12.25	1.86%	[0.00]	ug/L
Cu 327.393	104.8	83.65	79.79%	[0.00]	ug/L
Fe 273.955	254.3	1.54	0.60%	[0.00]	ug/L
K 766.490	66.9	15.95	23.86%	[0.00]	ug/L
Mg 285.213	-25.8	3.83	14.81%	[0.00]	ug/L
Mn 257.610	-4.4	6.64	151.47%	[0.00]	ug/L
Mo 202.031	174.5	10.09	5.78%	[0.00]	ug/L
Na 589.592	-9.6	4.88	50.65%	[0.00]	ug/L
Ni 231.604	-188.1	11.29	6.00%	[0.00]	ug/L
P 213.617	54.0	2.11	3.91%	[0.00]	ug/L
Pb 220.353	-37.5	8.08	21.54%	[0.00]	ug/L
Sb 206.836	-2.2	4.59	204.25%	[0.00]	ug/L
Se 196.026	-21.9	4.98	22.79%	[0.00]	ug/L
Sn 189.927	-7.3	2.60	35.83%	[0.00]	ug/L
Sr 421.552	70.2	11.48	16.36%	[0.00]	ug/L
Ti 337.279	-111.6	7.88	7.06%	[0.00]	ug/L
Tl 190.801	-9.5	3.62	38.13%	[0.00]	ug/L
V 292.402	-778.1	80.06	10.29%	[0.00]	ug/L
Zn 206.200	-346.6	14.29	4.12%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 130109RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 01/09/13 1:55:57 PM
Data Type: Reprocessed on 01/10/13 3:53:04 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 130109RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	223.9	63.94	28.56%	[1.00]	ug/L
Al 308.215	34.7	2.11	6.09%	[100.00]	ug/L
As 188.979	22.6	2.37	10.51%	[3.50]	ug/L
B	47.4	1.16	2.45%	[50.00]	ug/L
Ba 233.527	1030.8	10.16	0.99%	[5.00]	ug/L
Be 313.107	14945.0	155.37	1.04%	[2.00]	ug/L
Ca 315.887	269.0	5.50	2.05%	[100.00]	ug/L
Cd 214.440	2297.6	27.09	1.18%	[5.00]	ug/L
Co 228.616	438.6	19.95	4.55%	[5.00]	ug/L
Cr 267.716	901.4	19.13	2.12%	[5.00]	ug/L
Cu 327.393	449.4	11.70	2.60%	[5.00]	ug/L
Fe 273.955	1703.2	26.20	1.54%	[50.00]	ug/L
K 766.490	273.3	9.71	3.55%	[1000.00]	ug/L
Mg 285.213	331.8	3.13	0.94%	[50]	ug/L
Mn 257.610	66.3	4.02	6.07%	[5.00]	ug/L
Mo 202.031	259.9	24.11	9.28%	[5.00]	ug/L
Na 589.592	926.7	12.58	1.36%	[1000.00]	ug/L
Ni 231.604	441.6	19.05	4.31%	[5.00]	ug/L
P 213.617	206.8	3.90	1.89%	[25.00]	ug/L
Pb 220.353	45.9	7.18	15.64%	[3.00]	ug/L
Sb 206.836	39.1	1.18	3.02%	[5.00]	ug/L
Se 196.026	40.0	9.10	22.74%	[5.00]	ug/L
Sn 189.927	51.1	3.39	6.64%	[5.00]	ug/L
Sr 421.552	245.6	4.26	1.73%	[5.00]	ug/L
Ti 337.279	83.8	2.90	3.45%	[5.00]	ug/L
Tl 190.801	38.7	4.67	12.07%	[5.00]	ug/L
V 292.402	1426.2	144.18	10.11%	[5.00]	ug/L
Zn 206.200	2157.1	24.31	1.13%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 130109RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 01/09/13 2:00:15 PM
Data Type: Reprocessed on 01/10/13 3:53:05 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 130109RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	70336.0	388.05	0.55%	[500.0]	ug/L
Al 308.215	8617.5	26.87	0.31%	[20000.00]	ug/L
As 188.979	5662.5	41.91	0.74%	[1000.00]	ug/L
B	907.2	5.90	0.65%	[1000.00]	ug/L
Ba 233.527	187159.4	1554.30	0.83%	[1000.00]	ug/L
Be 313.107	6987975.5	28971.62	0.41%	[1000.00]	ug/L
Ca 315.887	185823.9	2181.25	1.17%	[50000]	ug/L
Cd 214.440	389437.3	2483.24	0.64%	[1000.00]	ug/L
Co 228.616	80563.1	520.54	0.65%	[1000.00]	ug/L
Cr 267.716	156707.1	1276.66	0.81%	[1000.00]	ug/L
Cu 327.393	93874.6	777.31	0.83%	[1000.00]	ug/L
Fe 273.955	580907.0	4135.90	0.71%	[20000]	ug/L
K 766.490	7585.6	50.20	0.66%	[20000]	ug/L
Mg 285.213	304607.9	2947.97	0.97%	[50000]	ug/L
Mn 257.610	12706.1	25.90	0.20%	[1000.00]	ug/L
Mo 202.031	50214.0	95.87	0.19%	[1000.00]	ug/L
Na 589.592	31362.8	210.39	0.67%	[25000]	ug/L
Ni 231.604	71703.5	454.01	0.63%	[1000.00]	ug/L
P 213.617	39157.2	35.17	0.09%	[5000]	ug/L
Pb 220.353	16576.3	73.84	0.45%	[1000.00]	ug/L
Sb 206.836	7261.0	13.11	0.18%	[1000.00]	ug/L
Se 196.026	5975.7	36.98	0.62%	[1000.00]	ug/L
Sn 189.927	8062.6	64.66	0.80%	[1000.00]	ug/L
Sr 421.552	35455.8	569.60	1.61%	[1000.00]	ug/L
Ti 337.279	15162.0	6.13	0.04%	[1000.00]	ug/L
Tl 190.801	7284.2	23.00	0.32%	[1000.00]	ug/L
V 292.402	269484.3	1822.01	0.68%	[1000.00]	ug/L
Zn 206.200	98470.0	767.34	0.78%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 130109RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 01/09/13 2:03:53 PM
Data Type: Reprocessed on 01/10/13 3:53:06 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 130109RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	139630.0	2335.06	1.67%	[1000.00]	ug/L
Al 308.215	16948.7	109.94	0.65%	[40000.00]	ug/L
As 188.979	11295.0	80.91	0.72%	[2000.00]	ug/L
B	1784.3	19.33	1.08%	[2000.00]	ug/L
Ba 233.527	363765.4	4994.38	1.37%	[2000.00]	ug/L
Be 313.107	13637720.3	113237.00	0.83%	[2000.00]	ug/L
Ca 315.887	371013.4	2159.51	0.58%	[100000.0]	ug/L
Cd 214.440	744422.7	9446.51	1.27%	[2000.00]	ug/L
Co 228.616	156324.9	2204.77	1.41%	[2000.00]	ug/L
Cr 267.716	303390.2	3754.62	1.24%	[2000.00]	ug/L
Cu 327.393	186883.7	1991.58	1.07%	[2000.00]	ug/L
Fe 273.955	1123761.9	14944.56	1.33%	[40000]	ug/L
K 766.490	16505.4	138.31	0.84%	[40000]	ug/L
Mg 285.213	606130.4	3276.29	0.54%	[100000]	ug/L
Mn 257.610	24540.5	143.68	0.59%	[2000.00]	ug/L
Mo 202.031	95583.8	1308.66	1.37%	[2000.00]	ug/L
Na 589.592	68003.2	172.84	0.25%	[50000]	ug/L
Ni 231.604	137776.0	1657.04	1.20%	[2000.00]	ug/L
P 213.617	75035.9	986.46	1.31%	[10000]	ug/L
Pb 220.353	32437.8	333.24	1.03%	[2000.00]	ug/L
Sb 206.836	14523.2	75.49	0.52%	[2000.00]	ug/L
Se 196.026	11782.9	84.86	0.72%	[2000.00]	ug/L
Sn 189.927	15878.5	245.00	1.54%	[2000.00]	ug/L
Sr 421.552	66802.6	423.90	0.63%	[2000.00]	ug/L
Ti 337.279	29570.7	174.95	0.59%	[2000.00]	ug/L
Tl 190.801	14406.8	73.86	0.51%	[2000.00]	ug/L
V 292.402	527068.7	6950.78	1.32%	[2000.00]	ug/L
Zn 206.200	187956.8	2147.18	1.14%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	139.8	0.00000	0.999995	
Al 308.215	3	Lin Thru 0	0.0	0.4251	0.00000	0.999977	
As 188.979	3	Lin Thru 0	0.0	5.650	0.00000	0.999999	
B	3	Lin Thru 0	0.0	0.8952	0.00000	0.999977	
Ba 233.527	3	Lin Thru 0	0.0	182.9	0.00000	0.999933	
Be 313.107	3	Lin Thru 0	0.0	6853	0.00000	0.999951	
Ca 315.887	3	Lin Thru 0	0.0	3.711	0.00000	1.000000	
Cd 214.440	3	Lin Thru 0	0.0	375.7	0.00000	0.999832	
Co 228.616	3	Lin Thru 0	0.0	78.64	0.00000	0.999925	
Cr 267.716	3	Lin Thru 0	0.0	152.7	0.00000	0.999914	
Cu 327.393	3	Lin Thru 0	0.0	93.53	0.00000	0.999998	
Fe 273.955	3	Lin Thru 0	0.0	28.28	0.00000	0.999909	
K 766.490	3	Lin Thru 0	0.0	0.4059	0.00000	0.999434	
Mg 285.213	3	Lin Thru 0	0.0	6.067	0.00000	0.999998	
Mn 257.610	3	Lin Thru 0	0.0	12.36	0.00000	0.999900	
Mo 202.031	3	Lin Thru 0	0.0	48.28	0.00000	0.999799	
Na 589.592	3	Lin Thru 0	0.0	1.339	0.00000	0.999488	
Ni 231.604	3	Lin Thru 0	0.0	69.45	0.00000	0.999868	
P 213.617	3	Lin Thru 0	0.0	7.569	0.00000	0.999850	
Pb 220.353	3	Lin Thru 0	0.0	16.29	0.00000	0.999961	
Sb 206.836	3	Lin Thru 0	0.0	7.262	0.00000	1.000000	
Se 196.026	3	Lin Thru 0	0.0	5.908	0.00000	0.999983	
Sn 189.927	3	Lin Thru 0	0.0	7.964	0.00000	0.999981	
Sr 421.552	3	Lin Thru 0	0.0	33.81	0.00000	0.999704	
Ti 337.279	3	Lin Thru 0	0.0	14.86	0.00000	0.999949	
Tl 190.801	3	Lin Thru 0	0.0	7.220	0.00000	0.999990	

V 292.402	3	Lin Thru 0	0.0	264.7	0.00000	0.999960
Zn 206.200	3	Lin Thru 0	0.0	94.88	0.00000	0.999820

Sequence No.: 5
Sample ID: ICV 130109RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 01/09/13 2:07:37 PM
Data Type: Reprocessed on 01/10/13 3:53:07 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 130109RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	68497.1	489.8	ug/L	5.74	489.8	ug/L	5.74	1.17%
QC value within limits for Ag 338.289 Recovery = 97.97%								
Al 308.215	10774.6	25350	ug/L	67.4	25350	ug/L	67.4	0.27%
QC value within limits for Al 308.215 Recovery = 101.41%								
As 188.979	5369.8	950.3	ug/L	9.30	950.3	ug/L	9.30	0.98%
QC value within limits for As 188.979 Recovery = 95.03%								
B	915.4	1108	ug/L	8.5	1108	ug/L	8.5	0.77%
QC value greater than the upper limit for B Recovery = 110.77%								
Ba 233.527	177197.9	954.9	ug/L	5.50	954.9	ug/L	5.50	0.58%
QC value within limits for Ba 233.527 Recovery = 95.49%								
Be 313.107	6903514.4	1007	ug/L	5.4	1007	ug/L	5.4	0.54%
QC value within limits for Be 313.107 Recovery = 100.74%								
Ca 315.887	93407.8	25160	ug/L	232.4	25160	ug/L	232.4	0.92%
QC value within limits for Ca 315.887 Recovery = 100.63%								
Cd 214.440	392453.5	1044	ug/L	4.7	1044	ug/L	4.7	0.45%
QC value within limits for Cd 214.440 Recovery = 104.41%								
Co 228.616	76721.6	974.9	ug/L	4.10	974.9	ug/L	4.10	0.42%
QC value within limits for Co 228.616 Recovery = 97.49%								
Cr 267.716	153476.5	1006	ug/L	5.6	1006	ug/L	5.6	0.56%
QC value within limits for Cr 267.716 Recovery = 100.61%								
Cu 327.393	90316.6	965.7	ug/L	11.00	965.7	ug/L	11.00	1.14%
QC value within limits for Cu 327.393 Recovery = 96.57%								
Fe 273.955	706383.1	24890	ug/L	137.9	24890	ug/L	137.9	0.55%
QC value within limits for Fe 273.955 Recovery = 99.58%								
K 766.490	7821.7	19260	ug/L	79.8	19260	ug/L	79.8	0.41%
QC value less than the lower limit for K 766.490 Recovery = 77.03%								
Mg 285.213	156806.5	25870	ug/L	275.3	25870	ug/L	275.3	1.06%
QC value within limits for Mg 285.213 Recovery = 103.49%								
Mn 257.610	13154.2	1065	ug/L	2.4	1065	ug/L	2.4	0.23%
QC value within limits for Mn 257.610 Recovery = 106.48%								
Mo 202.031	47293.0	982.2	ug/L	8.79	982.2	ug/L	8.79	0.89%
QC value within limits for Mo 202.031 Recovery = 98.22%								
Na 589.592	28244.7	21080	ug/L	198.1	21080	ug/L	198.1	0.94%
QC value less than the lower limit for Na 589.592 Recovery = 84.32%								
Ni 231.604	71690.1	1030	ug/L	4.2	1030	ug/L	4.2	0.41%
QC value within limits for Ni 231.604 Recovery = 103.03%								
P 213.617	36679.9	4846	ug/L	36.3	4846	ug/L	36.3	0.75%
QC value within limits for P 213.617 Recovery = 96.92%								
Pb 220.353	16402.3	1007	ug/L	10.3	1007	ug/L	10.3	1.02%
QC value within limits for Pb 220.353 Recovery = 100.69%								
Sb 206.836	6916.0	952.4	ug/L	5.36	952.4	ug/L	5.36	0.56%
QC value within limits for Sb 206.836 Recovery = 95.24%								
Se 196.026	5760.7	986.2	ug/L	21.15	986.2	ug/L	21.15	2.15%
QC value within limits for Se 196.026 Recovery = 98.62%								
Sn 189.927	3951.5	496.2	ug/L	17.06	496.2	ug/L	17.06	3.44%
QC value within limits for Sn 189.927 Recovery = 99.24%								
Sr 421.552	26071.1	770.8	ug/L	6.89	770.8	ug/L	6.89	0.89%
QC value less than the lower limit for Sr 421.552 Recovery = 77.08%								
Ti 337.279	13046.9	877.5	ug/L	3.40	877.5	ug/L	3.40	0.39%
QC value less than the lower limit for Ti 337.279 Recovery = 87.75%								
Tl 190.801	7188.1	995.7	ug/L	10.89	995.7	ug/L	10.89	1.09%
QC value within limits for Tl 190.801 Recovery = 99.57%								
V 292.402	257560.4	989.4	ug/L	6.13	989.4	ug/L	6.13	0.62%
QC value within limits for V 292.402 Recovery = 98.94%								
Zn 206.200	96309.2	1024	ug/L	4.3	1024	ug/L	4.3	0.42%
QC value within limits for Zn 206.200 Recovery = 102.43%								

QC Failed. Continue with analysis.

Sequence No.: 6
Sample ID: ICB 130109RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 01/09/13 2:12:32 PM
Data Type: Reprocessed on 01/10/13 3:53:08 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 130109RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	59.1	0.423	ug/L	0.9938	0.423	ug/L	0.9938	235.14%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-0.1	-0.233	ug/L	13.5386	-0.233	ug/L	13.5386	>999.9%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	-1.1	-0.198	ug/L	1.1375	-0.198	ug/L	1.1375	573.97%
QC value within limits for As 188.979 Recovery = Not calculated								
B	8.4	9.392	ug/L	7.5726	9.392	ug/L	7.5726	80.63%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	24.5	0.134	ug/L	0.0233	0.134	ug/L	0.0233	17.41%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-220.7	-0.032	ug/L	0.0177	-0.032	ug/L	0.0177	54.94%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	-28.8	-7.745	ug/L	2.4071	-7.745	ug/L	2.4071	31.08%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-10.6	-0.028	ug/L	0.0218	-0.028	ug/L	0.0218	78.45%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	17.3	0.221	ug/L	0.1230	0.221	ug/L	0.1230	55.69%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	12.4	0.082	ug/L	0.0743	0.082	ug/L	0.0743	90.54%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	92.4	0.988	ug/L	0.6989	0.988	ug/L	0.6989	70.72%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	21.4	0.733	ug/L	0.6573	0.733	ug/L	0.6573	89.68%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-35.8	-88.14	ug/L	23.542	-88.14	ug/L	23.542	26.71%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	-4.2	-0.691	ug/L	1.1642	-0.691	ug/L	1.1642	168.38%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-6.6	-0.533	ug/L	0.3293	-0.533	ug/L	0.3293	61.78%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	30.1	0.624	ug/L	0.1419	0.624	ug/L	0.1419	22.74%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	90.9	67.92	ug/L	10.035	67.92	ug/L	10.035	14.77%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	4.5	0.064	ug/L	0.2144	0.064	ug/L	0.2144	336.42%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-2.0	-0.259	ug/L	0.6925	-0.259	ug/L	0.6925	267.54%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	0.9	0.057	ug/L	0.8465	0.057	ug/L	0.8465	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.3	0.454	ug/L	0.4059	0.454	ug/L	0.4059	89.37%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-1.7	-0.290	ug/L	1.9846	-0.290	ug/L	1.9846	685.41%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	20.6	2.581	ug/L	0.9676	2.581	ug/L	0.9676	37.48%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-10.3	-0.304	ug/L	0.2078	-0.304	ug/L	0.2078	68.44%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	2.6	0.178	ug/L	0.2299	0.178	ug/L	0.2299	129.10%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	14.0	1.944	ug/L	0.5908	1.944	ug/L	0.5908	30.39%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	91.4	0.354	ug/L	0.3453	0.354	ug/L	0.3453	97.47%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-13.5	-0.141	ug/L	0.0671	-0.141	ug/L	0.0671	47.53%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 130109RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 01/09/13 2:21:07 PM
Data Type: Reprocessed on 01/10/13 3:53:10 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 130109RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	8.4	0.060	ug/L	0.0774	0.060	ug/L	0.0774	129.52%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	87062.4	204800	ug/L	1621.9	204800	ug/L	1621.9	0.79%
QC value within limits for Al 308.215 Recovery = 102.40%								
As 188.979	-3.0	-0.536	ug/L	1.6170	-0.536	ug/L	1.6170	301.73%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-551.0	-0.375	ug/L	11.4655	-0.375	ug/L	11.4655	>999.9%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	18955.9	0.066	ug/L	1.9565	0.066	ug/L	1.9565	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-611.8	-0.089	ug/L	0.0124	-0.089	ug/L	0.0124	13.84%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	738307.2	198900	ug/L	1542.8	198900	ug/L	1542.8	0.78%
QC value within limits for Ca 315.887 Recovery = 99.45%								
Cd 214.440	3531.3	0.336	ug/L	0.0852	0.336	ug/L	0.0852	25.31%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	314.4	-0.124	ug/L	0.3392	-0.124	ug/L	0.3392	273.34%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-86.9	-0.097	ug/L	0.0973	-0.097	ug/L	0.0973	100.10%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-183.6	-1.964	ug/L	0.0736	-1.964	ug/L	0.0736	3.75%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	5053908.8	178700	ug/L	2412.8	178700	ug/L	2412.8	1.35%
QC value within limits for Fe 273.955 Recovery = 89.33%								
K 766.490	-41.9	-214.6	ug/L	16.64	-214.6	ug/L	16.64	7.76%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	1208043.3	199300	ug/L	1784.8	199300	ug/L	1784.8	0.90%
QC value within limits for Mg 285.213 Recovery = 99.65%								
Mn 257.610	-20.6	-1.194	ug/L	0.5717	-1.194	ug/L	0.5717	47.89%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-635.1	0.298	ug/L	0.1439	0.298	ug/L	0.1439	48.33%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	81.0	14.58	ug/L	1.560	14.58	ug/L	1.560	10.70%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-36.6	-0.824	ug/L	0.2859	-0.824	ug/L	0.2859	34.68%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-56.8	-7.505	ug/L	1.7959	-7.505	ug/L	1.7959	23.93%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	14.1	0.863	ug/L	0.7902	0.863	ug/L	0.7902	91.54%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-4.5	-0.623	ug/L	1.2145	-0.623	ug/L	1.2145	194.97%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-536.9	-4.726	ug/L	0.5106	-4.726	ug/L	0.5106	10.80%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-5.0	-0.633	ug/L	0.5952	-0.633	ug/L	0.5952	93.99%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	33.8	-1.200	ug/L	0.3258	-1.200	ug/L	0.3258	27.15%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	37.0	-1.042	ug/L	0.5760	-1.042	ug/L	0.5760	55.28%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2.9	0.400	ug/L	0.4795	0.400	ug/L	0.4795	119.83%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	11376.9	-1.412	ug/L	0.2875	-1.412	ug/L	0.2875	20.36%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	533.4	-2.914	ug/L	0.1274	-2.914	ug/L	0.1274	4.37%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 130109RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 01/09/13 2:26:39 PM
Data Type: Reprocessed on 01/10/13 3:53:11 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 130109RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	135139.2	966.4	ug/L	12.98	966.4	ug/L	12.98	1.34%
QC value within limits for Ag 338.289 Recovery = 96.64%								
Al 308.215	89226.8	209900	ug/L	1488.7	209900	ug/L	1488.7	0.71%
QC value within limits for Al 308.215 Recovery = 104.95%								
As 188.979	2499.4	442.3	ug/L	1.50	442.3	ug/L	1.50	0.34%
QC value within limits for As 188.979 Recovery = 88.47%								
B	-561.1	-16.26	ug/L	3.556	-16.26	ug/L	3.556	21.87%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	101361.9	451.4	ug/L	2.18	451.4	ug/L	2.18	0.48%
QC value within limits for Ba 233.527 Recovery = 90.28%								
Be 313.107	3180855.4	464.2	ug/L	3.79	464.2	ug/L	3.79	0.82%
QC value within limits for Be 313.107 Recovery = 92.84%								
Ca 315.887	751071.7	202300	ug/L	1305.2	202300	ug/L	1305.2	0.65%
QC value within limits for Ca 315.887 Recovery = 101.16%								
Cd 214.440	353063.5	931.1	ug/L	4.30	931.1	ug/L	4.30	0.46%
QC value within limits for Cd 214.440 Recovery = 93.11%								
Co 228.616	34964.5	441.3	ug/L	3.07	441.3	ug/L	3.07	0.70%
QC value within limits for Co 228.616 Recovery = 88.26%								
Cr 267.716	70408.9	462.0	ug/L	1.56	462.0	ug/L	1.56	0.34%
QC value within limits for Cr 267.716 Recovery = 92.40%								
Cu 327.393	44924.1	480.3	ug/L	2.88	480.3	ug/L	2.88	0.60%
QC value within limits for Cu 327.393 Recovery = 96.07%								
Fe 273.955	5027304.7	177700	ug/L	1475.0	177700	ug/L	1475.0	0.83%
QC value within limits for Fe 273.955 Recovery = 88.84%								
K 766.490	-35.8	-199.9	ug/L	20.04	-199.9	ug/L	20.04	10.02%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	1231944.2	203200	ug/L	1489.5	203200	ug/L	1489.5	0.73%
QC value within limits for Mg 285.213 Recovery = 101.62%								
Mn 257.610	6191.3	501.3	ug/L	1.94	501.3	ug/L	1.94	0.39%
QC value within limits for Mn 257.610 Recovery = 100.27%								
Mo 202.031	21160.5	452.0	ug/L	0.95	452.0	ug/L	0.95	0.21%
QC value within limits for Mo 202.031 Recovery = 90.40%								
Na 589.592	54.2	-7.656	ug/L	6.3964	-7.656	ug/L	6.3964	83.55%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	63178.5	908.5	ug/L	3.40	908.5	ug/L	3.40	0.37%
QC value within limits for Ni 231.604 Recovery = 90.85%								
P 213.617	-19.9	-2.634	ug/L	1.5238	-2.634	ug/L	1.5238	57.84%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	14885.8	913.8	ug/L	6.18	913.8	ug/L	6.18	0.68%
QC value within limits for Pb 220.353 Recovery = 91.38%								
Sb 206.836	3207.3	441.7	ug/L	0.87	441.7	ug/L	0.87	0.20%
QC value within limits for Sb 206.836 Recovery = 88.34%								
Se 196.026	2245.8	465.4	ug/L	2.95	465.4	ug/L	2.95	0.63%
QC value within limits for Se 196.026 Recovery = 93.07%								
Sn 189.927	-7.0	-0.878	ug/L	0.0426	-0.878	ug/L	0.0426	4.86%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	49.9	-0.738	ug/L	0.3489	-0.738	ug/L	0.3489	47.26%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	38.3	-0.973	ug/L	0.3325	-0.973	ug/L	0.3325	34.18%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3328.4	461.0	ug/L	2.07	461.0	ug/L	2.07	0.45%
QC value within limits for Tl 190.801 Recovery = 92.21%								
V 292.402	132716.3	467.9	ug/L	2.02	467.9	ug/L	2.02	0.43%
QC value within limits for V 292.402 Recovery = 93.58%								
Zn 206.200	85174.5	894.1	ug/L	2.75	894.1	ug/L	2.75	0.31%
QC value within limits for Zn 206.200 Recovery = 89.41%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 130109RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 01/09/13 2:36:49 PM
Data Type: Reprocessed on 01/10/13 3:53:12 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 130109RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	68560.6	490.3	ug/L	6.65	490.3	ug/L	6.65	1.36%
QC value within limits for Ag 338.289 Recovery = 98.06%								
Al 308.215	10028.1	23600	ug/L	25.4	23600	ug/L	25.4	0.11%
QC value greater than the upper limit for Al 308.215 Recovery = 117.98%								
As 188.979	5462.5	966.7	ug/L	6.16	966.7	ug/L	6.16	0.64%
QC value within limits for As 188.979 Recovery = 96.67%								
B	1078.4	1271	ug/L	6.8	1271	ug/L	6.8	0.54%
QC value greater than the upper limit for B Recovery = 127.06%								
Ba 233.527	182179.2	984.9	ug/L	3.59	984.9	ug/L	3.59	0.36%
QC value within limits for Ba 233.527 Recovery = 98.49%								
Be 313.107	6860018.7	1001	ug/L	3.1	1001	ug/L	3.1	0.31%
QC value within limits for Be 313.107 Recovery = 100.11%								
Ca 315.887	206541.1	55640	ug/L	572.7	55640	ug/L	572.7	1.03%
QC value greater than the upper limit for Ca 315.887 Recovery = 111.28%								
Cd 214.440	380895.9	1014	ug/L	2.8	1014	ug/L	2.8	0.28%
QC value within limits for Cd 214.440 Recovery = 101.36%								
Co 228.616	78372.4	995.7	ug/L	2.42	995.7	ug/L	2.42	0.24%
QC value within limits for Co 228.616 Recovery = 99.57%								
Cr 267.716	152761.9	1001	ug/L	4.0	1001	ug/L	4.0	0.40%
QC value within limits for Cr 267.716 Recovery = 100.11%								
Cu 327.393	90462.5	967.2	ug/L	5.28	967.2	ug/L	5.28	0.55%
QC value within limits for Cu 327.393 Recovery = 96.72%								
Fe 273.955	566273.3	19940	ug/L	68.5	19940	ug/L	68.5	0.34%
QC value within limits for Fe 273.955 Recovery = 99.69%								
K 766.490	6053.0	14890	ug/L	29.5	14890	ug/L	29.5	0.20%
QC value less than the lower limit for K 766.490 Recovery = 74.47%								
Mg 285.213	342645.5	56490	ug/L	512.0	56490	ug/L	512.0	0.91%
QC value greater than the upper limit for Mg 285.213 Recovery = 112.99%								
Mn 257.610	13968.9	1129	ug/L	0.5	1129	ug/L	0.5	0.04%
QC value greater than the upper limit for Mn 257.610 Recovery = 112.90%								
Mo 202.031	48782.0	1013	ug/L	3.0	1013	ug/L	3.0	0.30%
QC value within limits for Mo 202.031 Recovery = 101.25%								
Na 589.592	35454.0	26460	ug/L	347.5	26460	ug/L	347.5	1.31%
QC value within limits for Na 589.592 Recovery = 105.84%								
Ni 231.604	69985.0	1006	ug/L	3.9	1006	ug/L	3.9	0.38%
QC value within limits for Ni 231.604 Recovery = 100.56%								
P 213.617	38122.4	5037	ug/L	16.7	5037	ug/L	16.7	0.33%
QC value within limits for P 213.617 Recovery = 100.73%								
Pb 220.353	16037.2	984.5	ug/L	5.96	984.5	ug/L	5.96	0.61%
QC value within limits for Pb 220.353 Recovery = 98.45%								
Sb 206.836	7041.9	969.8	ug/L	7.21	969.8	ug/L	7.21	0.74%
QC value within limits for Sb 206.836 Recovery = 96.98%								
Se 196.026	5793.4	988.0	ug/L	7.56	988.0	ug/L	7.56	0.77%
QC value within limits for Se 196.026 Recovery = 98.80%								
Sn 189.927	7784.8	977.5	ug/L	13.65	977.5	ug/L	13.65	1.40%
QC value within limits for Sn 189.927 Recovery = 97.75%								
Sr 421.552	32376.7	957.1	ug/L	12.38	957.1	ug/L	12.38	1.29%
QC value within limits for Sr 421.552 Recovery = 95.71%								
Ti 337.279	14475.7	973.2	ug/L	2.36	973.2	ug/L	2.36	0.24%
QC value within limits for Ti 337.279 Recovery = 97.32%								
Tl 190.801	7022.3	972.7	ug/L	5.17	972.7	ug/L	5.17	0.53%
QC value within limits for Tl 190.801 Recovery = 97.27%								
V 292.402	262355.1	1009	ug/L	2.2	1009	ug/L	2.2	0.22%
QC value within limits for V 292.402 Recovery = 100.90%								
Zn 206.200	96276.7	1024	ug/L	4.0	1024	ug/L	4.0	0.39%
QC value within limits for Zn 206.200 Recovery = 102.45%								

QC Failed. Continue with analysis.

Sequence No.: 11
Sample ID: CCB 130109RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 01/09/13 2:44:32 PM
Data Type: Reprocessed on 01/10/13 3:53:13 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 130109RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	104.4	0.746	ug/L	0.6397	0.746	ug/L	0.6397	85.72%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	12.2	28.80	ug/L	8.472	28.80	ug/L	8.472	29.42%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	-0.9	-0.156	ug/L	0.0290	-0.156	ug/L	0.0290	18.56%
QC value within limits for As 188.979 Recovery = Not calculated								
B	8.0	8.924	ug/L	2.0190	8.924	ug/L	2.0190	22.62%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	15.6	0.083	ug/L	0.0305	0.083	ug/L	0.0305	36.61%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-79.8	-0.012	ug/L	0.0179	-0.012	ug/L	0.0179	153.30%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	-63.3	-17.05	ug/L	1.293	-17.05	ug/L	1.293	7.58%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-9.6	-0.025	ug/L	0.0254	-0.025	ug/L	0.0254	99.81%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	5.1	0.067	ug/L	0.0798	0.067	ug/L	0.0798	118.84%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-0.7	-0.004	ug/L	0.1545	-0.004	ug/L	0.1545	>999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-14.5	-0.155	ug/L	0.1557	-0.155	ug/L	0.1557	100.22%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	119.1	4.204	ug/L	1.6094	4.204	ug/L	1.6094	38.28%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-69.0	-169.9	ug/L	7.02	-169.9	ug/L	7.02	4.13%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	-16.3	-2.676	ug/L	0.5382	-2.676	ug/L	0.5382	20.11%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-13.3	-1.076	ug/L	0.1662	-1.076	ug/L	0.1662	15.46%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	12.7	0.264	ug/L	0.2355	0.264	ug/L	0.2355	89.14%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	71.6	53.52	ug/L	11.658	53.52	ug/L	11.658	21.78%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-5.2	-0.075	ug/L	0.0476	-0.075	ug/L	0.0476	63.21%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-1.9	-0.252	ug/L	0.3627	-0.252	ug/L	0.3627	144.10%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	4.4	0.273	ug/L	0.3242	0.273	ug/L	0.3242	118.83%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.8	0.522	ug/L	0.2593	0.522	ug/L	0.2593	49.71%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	8.5	1.437	ug/L	0.6323	1.437	ug/L	0.6323	43.99%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	9.3	1.171	ug/L	0.0909	1.171	ug/L	0.0909	7.76%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	8.3	0.244	ug/L	0.0730	0.244	ug/L	0.0730	29.86%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-8.3	-0.559	ug/L	0.3095	-0.559	ug/L	0.3095	55.34%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	13.1	1.819	ug/L	0.2569	1.819	ug/L	0.2569	14.12%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	35.7	0.138	ug/L	0.5555	0.138	ug/L	0.5555	403.88%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-6.7	-0.071	ug/L	0.1025	-0.071	ug/L	0.1025	143.51%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 17
Sample ID: CCV2 130109RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 01/09/13 3:15:19 PM
Data Type: Reprocessed on 01/10/13 3:53:19 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 130109RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	52713.4	377.0	ug/L	1.71	377.0	ug/L	1.71	0.45%
QC value within limits for Ag 338.289 Recovery = 100.52%								
Al 308.215	9047.1	21290	ug/L	50.5	21290	ug/L	50.5	0.24%
QC value greater than the upper limit for Al 308.215 Recovery = 141.92%								
As 188.979	4309.3	762.6	ug/L	4.25	762.6	ug/L	4.25	0.56%
QC value within limits for As 188.979 Recovery = 101.68%								
B	1155.5	1341	ug/L	25.7	1341	ug/L	25.7	1.91%
QC value greater than the upper limit for B Recovery = 178.85%								
Ba 233.527	140303.7	758.5	ug/L	3.83	758.5	ug/L	3.83	0.51%
QC value within limits for Ba 233.527 Recovery = 101.14%								
Be 313.107	5371510.8	783.9	ug/L	10.57	783.9	ug/L	10.57	1.35%
QC value within limits for Be 313.107 Recovery = 104.51%								
Ca 315.887	168963.0	45520	ug/L	355.2	45520	ug/L	355.2	0.78%
QC value greater than the upper limit for Ca 315.887 Recovery = 121.38%								
Cd 214.440	295961.9	787.6	ug/L	5.03	787.6	ug/L	5.03	0.64%
QC value within limits for Cd 214.440 Recovery = 105.01%								
Co 228.616	60831.7	772.9	ug/L	5.67	772.9	ug/L	5.67	0.73%
QC value within limits for Co 228.616 Recovery = 103.05%								
Cr 267.716	117789.6	771.8	ug/L	4.38	771.8	ug/L	4.38	0.57%
QC value within limits for Cr 267.716 Recovery = 102.90%								
Cu 327.393	68967.1	737.4	ug/L	1.96	737.4	ug/L	1.96	0.27%
QC value within limits for Cu 327.393 Recovery = 98.32%								
Fe 273.955	437104.5	15390	ug/L	77.2	15390	ug/L	77.2	0.50%
QC value within limits for Fe 273.955 Recovery = 102.60%								
K 766.490	5390.1	13270	ug/L	48.1	13270	ug/L	48.1	0.36%
QC value less than the lower limit for K 766.490 Recovery = 88.46%								
Mg 285.213	285498.7	47070	ug/L	327.3	47070	ug/L	327.3	0.70%
QC value greater than the upper limit for Mg 285.213 Recovery = 125.52%								
Mn 257.610	12078.8	976.2	ug/L	2.30	976.2	ug/L	2.30	0.24%
QC value greater than the upper limit for Mn 257.610 Recovery = 130.16%								
Mo 202.031	37010.2	768.2	ug/L	4.12	768.2	ug/L	4.12	0.54%
QC value within limits for Mo 202.031 Recovery = 102.43%								
Na 589.592	42619.0	31820	ug/L	184.5	31820	ug/L	184.5	0.58%
QC value greater than the upper limit for Na 589.592 Recovery = 169.69%								
Ni 231.604	54453.8	782.4	ug/L	4.70	782.4	ug/L	4.70	0.60%
QC value within limits for Ni 231.604 Recovery = 104.32%								
P 213.617	28767.6	3801	ug/L	20.4	3801	ug/L	20.4	0.54%
QC value within limits for P 213.617 Recovery = 101.35%								
Pb 220.353	12692.1	779.1	ug/L	0.78	779.1	ug/L	0.78	0.10%
QC value within limits for Pb 220.353 Recovery = 103.88%								
Sb 206.836	5524.4	760.8	ug/L	1.57	760.8	ug/L	1.57	0.21%
QC value within limits for Sb 206.836 Recovery = 101.44%								
Se 196.026	4543.4	774.3	ug/L	1.38	774.3	ug/L	1.38	0.18%
QC value within limits for Se 196.026 Recovery = 103.24%								
Sn 189.927	6160.6	773.6	ug/L	2.38	773.6	ug/L	2.38	0.31%
QC value within limits for Sn 189.927 Recovery = 103.14%								
Sr 421.552	57444.9	1699	ug/L	8.5	1699	ug/L	8.5	0.50%
QC value greater than the upper limit for Sr 421.552 Recovery = 226.48%								
Ti 337.279	10919.0	734.0	ug/L	0.97	734.0	ug/L	0.97	0.13%
QC value within limits for Ti 337.279 Recovery = 97.87%								
Tl 190.801	5497.0	761.4	ug/L	1.47	761.4	ug/L	1.47	0.19%
QC value within limits for Tl 190.801 Recovery = 101.52%								
V 292.402	201657.6	775.4	ug/L	4.14	775.4	ug/L	4.14	0.53%
QC value within limits for V 292.402 Recovery = 103.39%								
Zn 206.200	74857.1	796.7	ug/L	4.02	796.7	ug/L	4.02	0.50%
QC value within limits for Zn 206.200 Recovery = 106.23%								

QC Failed. Continue with analysis.

Sequence No.: 18
Sample ID: CCB 130109RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 01/09/13 3:21:08 PM
Data Type: Reprocessed on 01/10/13 3:53:20 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 130109RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65.1	0.465	ug/L	0.8525	0.465	ug/L	0.8525	183.16%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	9.9	23.28	ug/L	17.378	23.28	ug/L	17.378	74.64%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	5.5	0.966	ug/L	0.4851	0.966	ug/L	0.4851	50.23%
QC value within limits for As 188.979 Recovery = Not calculated								
B	67.1	74.93	ug/L	8.514	74.93	ug/L	8.514	11.36%
QC value greater than the upper limit for B Recovery = Not calculated								
Ba 233.527	7.6	0.041	ug/L	0.1284	0.041	ug/L	0.1284	311.18%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-294.6	-0.043	ug/L	0.0140	-0.043	ug/L	0.0140	32.63%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	-240.7	-64.86	ug/L	2.953	-64.86	ug/L	2.953	4.55%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	4.7	0.013	ug/L	0.0185	0.013	ug/L	0.0185	142.71%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	11.6	0.150	ug/L	0.2297	0.150	ug/L	0.2297	152.77%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	9.7	0.065	ug/L	0.0753	0.065	ug/L	0.0753	115.44%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-64.9	-0.694	ug/L	0.3150	-0.694	ug/L	0.3150	45.37%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	20.2	0.711	ug/L	0.5932	0.711	ug/L	0.5932	83.41%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-84.6	-208.4	ug/L	45.99	-208.4	ug/L	45.99	22.07%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	-23.9	-3.930	ug/L	0.5735	-3.930	ug/L	0.5735	14.59%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-20.7	-1.671	ug/L	0.4430	-1.671	ug/L	0.4430	26.52%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	14.2	0.294	ug/L	0.1182	0.294	ug/L	0.1182	40.16%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	233.9	174.8	ug/L	8.81	174.8	ug/L	8.81	5.04%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-15.6	-0.226	ug/L	0.1466	-0.226	ug/L	0.1466	64.77%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-3.4	-0.453	ug/L	0.5081	-0.453	ug/L	0.5081	112.22%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	8.3	0.508	ug/L	0.5439	0.508	ug/L	0.5439	107.02%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.1	0.433	ug/L	0.8854	0.433	ug/L	0.8854	204.27%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-2.7	-0.458	ug/L	0.1773	-0.458	ug/L	0.1773	38.73%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	12.5	1.568	ug/L	0.8149	1.568	ug/L	0.8149	51.98%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	56.3	1.664	ug/L	0.3436	1.664	ug/L	0.3436	20.65%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-12.4	-0.835	ug/L	0.2181	-0.835	ug/L	0.2181	26.12%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	30.5	4.225	ug/L	0.4589	4.225	ug/L	0.4589	10.86%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated								
V 292.402	19.3	0.078	ug/L	0.1988	0.078	ug/L	0.1988	256.07%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-174.5	-1.837	ug/L	0.0669	-1.837	ug/L	0.0669	3.64%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 28
Sample ID: CCV1 130109RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 01/09/13 4:17:28 PM
Data Type: Reprocessed on 01/10/13 3:53:30 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 130109RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	69029.1	493.6	ug/L	2.60	493.6	ug/L	2.60	0.53%
QC value within limits for Ag 338.289 Recovery = 98.73%								
Al 308.215	12587.6	29620	ug/L	82.3	29620	ug/L	82.3	0.28%
QC value greater than the upper limit for Al 308.215 Recovery = 148.09%								
As 188.979	5516.9	976.4	ug/L	7.87	976.4	ug/L	7.87	0.81%
QC value within limits for As 188.979 Recovery = 97.64%								
B	1317.1	1536	ug/L	9.3	1536	ug/L	9.3	0.61%
QC value greater than the upper limit for B Recovery = 153.61%								
Ba 233.527	181730.7	982.5	ug/L	3.10	982.5	ug/L	3.10	0.32%
QC value within limits for Ba 233.527 Recovery = 98.25%								
Be 313.107	6896478.4	1006	ug/L	13.5	1006	ug/L	13.5	1.34%
QC value within limits for Be 313.107 Recovery = 100.64%								
Ca 315.887	223239.0	60140	ug/L	727.5	60140	ug/L	727.5	1.21%
QC value greater than the upper limit for Ca 315.887 Recovery = 120.27%								
Cd 214.440	377524.6	1005	ug/L	3.5	1005	ug/L	3.5	0.34%
QC value within limits for Cd 214.440 Recovery = 100.47%								
Co 228.616	78742.8	1000	ug/L	5.1	1000	ug/L	5.1	0.51%
QC value within limits for Co 228.616 Recovery = 100.04%								
Cr 267.716	152581.1	999.7	ug/L	2.18	999.7	ug/L	2.18	0.22%
QC value within limits for Cr 267.716 Recovery = 99.97%								
Cu 327.393	92444.2	988.4	ug/L	5.87	988.4	ug/L	5.87	0.59%
QC value within limits for Cu 327.393 Recovery = 98.84%								
Fe 273.955	562130.4	19790	ug/L	53.2	19790	ug/L	53.2	0.27%
QC value within limits for Fe 273.955 Recovery = 98.95%								
K 766.490	9409.4	23170	ug/L	180.6	23170	ug/L	180.6	0.78%
QC value greater than the upper limit for K 766.490 Recovery = 115.86%								
Mg 285.213	385086.8	63490	ug/L	707.2	63490	ug/L	707.2	1.11%
QC value greater than the upper limit for Mg 285.213 Recovery = 126.98%								
Mn 257.610	16470.5	1331	ug/L	3.9	1331	ug/L	3.9	0.29%
QC value greater than the upper limit for Mn 257.610 Recovery = 133.11%								
Mo 202.031	48899.9	1015	ug/L	4.6	1015	ug/L	4.6	0.45%
QC value within limits for Mo 202.031 Recovery = 101.50%								
Na 589.592	74787.4	55840	ug/L	709.0	55840	ug/L	709.0	1.27%
QC value greater than the upper limit for Na 589.592 Recovery = 223.34%								
Ni 231.604	69819.6	1003	ug/L	3.2	1003	ug/L	3.2	0.32%
QC value within limits for Ni 231.604 Recovery = 100.31%								
P 213.617	38229.9	5051	ug/L	34.4	5051	ug/L	34.4	0.68%
QC value within limits for P 213.617 Recovery = 101.01%								
Pb 220.353	16131.7	990.3	ug/L	10.14	990.3	ug/L	10.14	1.02%
QC value within limits for Pb 220.353 Recovery = 99.03%								
Sb 206.836	7086.7	975.9	ug/L	2.55	975.9	ug/L	2.55	0.26%
QC value within limits for Sb 206.836 Recovery = 97.59%								
Se 196.026	5869.2	999.8	ug/L	8.08	999.8	ug/L	8.08	0.81%
QC value within limits for Se 196.026 Recovery = 99.98%								
Sn 189.927	7857.9	986.7	ug/L	7.82	986.7	ug/L	7.82	0.79%
QC value within limits for Sn 189.927 Recovery = 98.67%								
Sr 421.552	114225.7	3378	ug/L	41.0	3378	ug/L	41.0	1.22%
QC value greater than the upper limit for Sr 421.552 Recovery = 337.78%								
Ti 337.279	14560.9	978.8	ug/L	5.45	978.8	ug/L	5.45	0.56%
QC value within limits for Ti 337.279 Recovery = 97.88%								
Tl 190.801	7059.6	977.9	ug/L	8.85	977.9	ug/L	8.85	0.91%
QC value within limits for Tl 190.801 Recovery = 97.79%								
V 292.402	262849.0	1011	ug/L	3.6	1011	ug/L	3.6	0.35%
QC value within limits for V 292.402 Recovery = 101.08%								
Zn 206.200	95429.8	1016	ug/L	4.2	1016	ug/L	4.2	0.41%
QC value within limits for Zn 206.200 Recovery = 101.61%								

QC Failed. Continue with analysis.

Sequence No.: 29
Sample ID: CCB 130109RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 01/09/13 4:24:27 PM
Data Type: Reprocessed on 01/10/13 3:53:32 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 130109RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	32.6	0.233	ug/L	0.7613	0.233	ug/L	0.7613	326.16%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	7.6	17.87	ug/L	23.842	17.87	ug/L	23.842	133.45%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.4	1.302	ug/L	0.2921	1.302	ug/L	0.2921	22.44%
QC value within limits for As 188.979 Recovery = Not calculated								
B	11.4	12.72	ug/L	4.904	12.72	ug/L	4.904	38.54%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	7.7	0.041	ug/L	0.0780	0.041	ug/L	0.0780	189.93%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-132.7	-0.019	ug/L	0.0048	-0.019	ug/L	0.0048	24.95%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	-97.8	-26.33	ug/L	3.869	-26.33	ug/L	3.869	14.69%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-0.3	-0.001	ug/L	0.0252	-0.001	ug/L	0.0252	>999.9%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	11.7	0.152	ug/L	0.1190	0.152	ug/L	0.1190	78.19%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-16.5	-0.106	ug/L	0.1551	-0.106	ug/L	0.1551	146.45%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-55.5	-0.593	ug/L	0.6613	-0.593	ug/L	0.6613	111.50%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	60.0	2.118	ug/L	1.1177	2.118	ug/L	1.1177	52.78%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-126.3	-311.1	ug/L	35.56	-311.1	ug/L	35.56	11.43%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	-31.8	-5.225	ug/L	1.0566	-5.225	ug/L	1.0566	20.22%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-27.5	-2.221	ug/L	0.0712	-2.221	ug/L	0.0712	3.20%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	21.5	0.446	ug/L	0.0511	0.446	ug/L	0.0511	11.47%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	228.0	170.5	ug/L	14.86	170.5	ug/L	14.86	8.72%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	2.8	0.040	ug/L	0.3244	0.040	ug/L	0.3244	806.07%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	11.8	1.559	ug/L	0.4742	1.559	ug/L	0.4742	30.42%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-5.9	-0.364	ug/L	0.3084	-0.364	ug/L	0.3084	84.80%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.9	0.537	ug/L	0.7760	0.537	ug/L	0.7760	144.54%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	5.9	1.010	ug/L	3.1756	1.010	ug/L	3.1756	314.55%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	4.9	0.620	ug/L	0.2054	0.620	ug/L	0.2054	33.12%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	116.2	3.435	ug/L	0.3367	3.435	ug/L	0.3367	9.80%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-13.7	-0.918	ug/L	0.3137	-0.918	ug/L	0.3137	34.18%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	12.4	1.711	ug/L	0.7316	1.711	ug/L	0.7316	42.75%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	34.5	0.135	ug/L	0.3074	0.135	ug/L	0.3074	227.21%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	18.9	0.197	ug/L	0.0352	0.197	ug/L	0.0352	17.84%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 130123A6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1 Autosampler Location: 1
Sample ID: CalBlk 130123RJS I:PB O:R Date Collected: 01/23/13 11:49:47 AM
Analyst: Data Type: Reprocessed on 01/24/13 9:30:57 AM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CalBlk 130123RJS I:PB O:R

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-91.3	6.18	6.77%	[0.00]	ug/L
Al 308.215	102.4	5.07	4.95%	[0.00]	ug/L
As 188.979	-2.1	8.96	424.45%	[0.00]	ug/L
B	15.2	8.43	55.48%	[0.00]	ug/L
Ba 233.527	118.6	16.01	13.49%	[0.00]	ug/L
Be 313.107	1823.3	92.00	5.05%	[0.00]	ug/L
Ca 315.887	-221.5	19.34	8.73%	[0.00]	ug/L
Cd 214.440	454.6	7.76	1.71%	[0.00]	ug/L
Co 228.616	67.0	21.95	32.74%	[0.00]	ug/L
Cr 267.716	810.3	71.35	8.81%	[0.00]	ug/L
Cu 327.393	22.7	11.55	50.83%	[0.00]	ug/L
Fe 273.955	181.7	13.57	7.47%	[0.00]	ug/L
K 766.490	71.0	204.48	288.12%	[0.00]	ug/L
Mg 285.213	-171.8	5.14	2.99%	[0.00]	ug/L
Mn 257.610	-79.5	6.67	8.38%	[0.00]	ug/L
Mo 202.031	190.6	24.20	12.70%	[0.00]	ug/L
Na 589.592	-361.6	118.23	32.69%	[0.00]	ug/L
Ni 231.604	-77.8	127.34	163.61%	[0.00]	ug/L
P 213.617	67.0	1.83	2.73%	[0.00]	ug/L
Pb 220.353	-27.2	11.65	42.87%	[0.00]	ug/L
Sb 206.836	0.3	3.59	>999.9%	[0.00]	ug/L
Se 196.026	-20.7	7.29	35.13%	[0.00]	ug/L
Sn 189.927	-13.4	9.49	71.04%	[0.00]	ug/L
Sr 421.552	1180.3	13.44	1.14%	[0.00]	ug/L
Ti 337.279	-508.6	8.12	1.60%	[0.00]	ug/L
Tl 190.801	-10.9	3.90	35.74%	[0.00]	ug/L
V 292.402	-719.3	69.17	9.62%	[0.00]	ug/L
Zn 206.200	-651.9	4.07	0.62%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 130123RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 01/23/13 11:54:07 AM
Data Type: Reprocessed on 01/24/13 9:30:58 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 130123RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	62.8	111.30	177.31%	[1.00]	ug/L
Al 308.215	140.5	1.89	1.35%	[100.00]	ug/L
As 188.979	13.9	0.99	7.12%	[3.50]	ug/L
B	215.6	2.38	1.10%	[50.00]	ug/L
Ba 233.527	916.1	86.27	9.42%	[5.00]	ug/L
Be 313.107	12256.3	264.32	2.16%	[2.00]	ug/L
Ca 315.887	1089.2	2.59	0.24%	[100.00]	ug/L
Cd 214.440	1950.4	14.32	0.73%	[5.00]	ug/L
Co 228.616	365.3	14.98	4.10%	[5.00]	ug/L
Cr 267.716	680.6	15.36	2.26%	[5.00]	ug/L
Cu 327.393	336.8	86.85	25.79%	[5.00]	ug/L
Fe 273.955	1400.3	6.01	0.43%	[50.00]	ug/L
K 766.490	2450.0	90.26	3.68%	[1000.00]	ug/L
Mg 285.213	1082.5	8.44	0.78%	[50]	ug/L
Mn 257.610	231.1	6.54	2.83%	[5.00]	ug/L
Mo 202.031	175.5	14.57	8.30%	[5.00]	ug/L
Na 589.592	11158.2	44.52	0.40%	[1000.00]	ug/L
Ni 231.604	274.1	25.53	9.31%	[5.00]	ug/L
P 213.617	176.1	7.31	4.15%	[25.00]	ug/L
Pb 220.353	55.3	10.36	18.74%	[3.00]	ug/L
Sb 206.836	29.9	5.71	19.09%	[5.00]	ug/L
Se 196.026	16.5	13.18	80.02%	[5.00]	ug/L
Sn 189.927	38.1	8.29	21.79%	[5.00]	ug/L
Sr 421.552	4452.8	114.72	2.58%	[5.00]	ug/L
Ti 337.279	245.8	20.81	8.47%	[5.00]	ug/L
Tl 190.801	33.3	4.91	14.73%	[5.00]	ug/L
V 292.402	1228.4	127.63	10.39%	[5.00]	ug/L
Zn 206.200	1981.0	6.14	0.31%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 130123RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 01/23/13 11:58:32 AM
Data Type: Reprocessed on 01/24/13 9:30:59 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 130123RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	59076.3	432.00	0.73%	[500.0]	ug/L
Al 308.215	27760.4	421.19	1.52%	[20000.00]	ug/L
As 188.979	4732.8	26.13	0.55%	[1000.00]	ug/L
B	4129.0	67.74	1.64%	[1000.00]	ug/L
Ba 233.527	155975.8	1336.14	0.86%	[1000.00]	ug/L
Be 313.107	5809839.5	51465.99	0.89%	[1000.00]	ug/L
Ca 315.887	519556.1	2673.07	0.51%	[50000]	ug/L
Cd 214.440	338324.7	3202.86	0.95%	[1000.00]	ug/L
Co 228.616	67848.5	559.50	0.82%	[1000.00]	ug/L
Cr 267.716	130978.2	1039.05	0.79%	[1000.00]	ug/L
Cu 327.393	71897.5	548.80	0.76%	[1000.00]	ug/L
Fe 273.955	486885.0	4103.65	0.84%	[20000]	ug/L
K 766.490	48400.5	560.94	1.16%	[20000]	ug/L
Mg 285.213	975809.1	4769.58	0.49%	[50000]	ug/L
Mn 257.610	43045.0	659.01	1.53%	[1000.00]	ug/L
Mo 202.031	40458.0	451.78	1.12%	[1000.00]	ug/L
Na 589.592	263539.4	1073.88	0.41%	[25000]	ug/L
Ni 231.604	60347.1	652.91	1.08%	[1000.00]	ug/L
P 213.617	32224.4	215.88	0.67%	[5000]	ug/L
Pb 220.353	14179.9	95.46	0.67%	[1000.00]	ug/L
Sb 206.836	5917.7	25.79	0.44%	[1000.00]	ug/L
Se 196.026	4929.6	24.86	0.50%	[1000.00]	ug/L
Sn 189.927	6926.0	53.49	0.77%	[1000.00]	ug/L
Sr 421.552	796644.7	3847.58	0.48%	[1000.00]	ug/L
Ti 337.279	41205.8	607.05	1.47%	[1000.00]	ug/L
Tl 190.801	6131.1	35.76	0.58%	[1000.00]	ug/L
V 292.402	220641.6	1635.47	0.74%	[1000.00]	ug/L
Zn 206.200	86406.5	887.47	1.03%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 130123RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 01/23/13 12:02:11 PM
Data Type: Reprocessed on 01/24/13 9:31:00 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 130123RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	112726.6	942.34	0.84%	[1000.00]	ug/L
Al 308.215	53257.6	520.98	0.98%	[40000.00]	ug/L
As 188.979	9029.9	186.08	2.06%	[2000.00]	ug/L
B	7884.0	80.44	1.02%	[2000.00]	ug/L
Ba 233.527	291904.3	3126.75	1.07%	[2000.00]	ug/L
Be 313.107	10825978.6	19487.11	0.18%	[2000.00]	ug/L
Ca 315.887	977254.3	21713.10	2.22%	[100000.0]	ug/L
Cd 214.440	625874.6	7174.22	1.15%	[2000.00]	ug/L
Co 228.616	126732.6	1397.91	1.10%	[2000.00]	ug/L
Cr 267.716	244272.2	2614.12	1.07%	[2000.00]	ug/L
Cu 327.393	138233.3	1629.56	1.18%	[2000.00]	ug/L
Fe 273.955	908536.3	10020.12	1.10%	[40000]	ug/L
K 766.490	91268.4	1754.70	1.92%	[40000]	ug/L
Mg 285.213	1826551.9	35101.87	1.92%	[100000]	ug/L
Mn 257.610	82164.7	797.44	0.97%	[2000.00]	ug/L
Mo 202.031	76199.3	771.28	1.01%	[2000.00]	ug/L
Na 589.592	497691.3	9197.22	1.85%	[50000]	ug/L
Ni 231.604	112015.4	1157.93	1.03%	[2000.00]	ug/L
P 213.617	61088.5	599.02	0.98%	[10000]	ug/L
Pb 220.353	26602.9	501.12	1.88%	[2000.00]	ug/L
Sb 206.836	11303.8	206.75	1.83%	[2000.00]	ug/L
Se 196.026	9351.0	238.05	2.55%	[2000.00]	ug/L
Sn 189.927	12968.5	177.26	1.37%	[2000.00]	ug/L
Sr 421.552	1502981.7	29408.97	1.96%	[2000.00]	ug/L
Ti 337.279	78220.0	794.36	1.02%	[2000.00]	ug/L
Tl 190.801	11734.7	238.00	2.03%	[2000.00]	ug/L
V 292.402	415243.9	4580.12	1.10%	[2000.00]	ug/L
Zn 206.200	159603.3	1922.44	1.20%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	113.8	0.00000	0.999818	
Al 308.215	3	Lin Thru 0	0.0	1.343	0.00000	0.999858	
As 188.979	3	Lin Thru 0	0.0	4.559	0.00000	0.999817	
B	3	Lin Thru 0	0.0	3.980	0.00000	0.999822	
Ba 233.527	3	Lin Thru 0	0.0	148.0	0.00000	0.999633	
Be 313.107	3	Lin Thru 0	0.0	5492	0.00000	0.999583	
Ca 315.887	3	Lin Thru 0	0.0	9.896	0.00000	0.999688	
Cd 214.440	3	Lin Thru 0	0.0	318.0	0.00000	0.999490	
Co 228.616	3	Lin Thru 0	0.0	64.26	0.00000	0.999611	
Cr 267.716	3	Lin Thru 0	0.0	123.9	0.00000	0.999593	
Cu 327.393	3	Lin Thru 0	0.0	69.67	0.00000	0.999873	
Fe 273.955	3	Lin Thru 0	0.0	23.04	0.00000	0.999599	
K 766.490	3	Lin Thru 0	0.0	2.309	0.00000	0.999712	
Mg 285.213	3	Lin Thru 0	0.0	18.52	0.00000	0.999635	
Mn 257.610	3	Lin Thru 0	0.0	41.47	0.00000	0.999821	
Mo 202.031	3	Lin Thru 0	0.0	38.57	0.00000	0.999701	
Na 589.592	3	Lin Thru 0	0.0	10.07	0.00000	0.999726	
Ni 231.604	3	Lin Thru 0	0.0	56.88	0.00000	0.999535	
P 213.617	3	Lin Thru 0	0.0	6.176	0.00000	0.999763	
Pb 220.353	3	Lin Thru 0	0.0	13.48	0.00000	0.999660	
Sb 206.836	3	Lin Thru 0	0.0	5.705	0.00000	0.999826	
Se 196.026	3	Lin Thru 0	0.0	4.726	0.00000	0.999769	
Sn 189.927	3	Lin Thru 0	0.0	6.573	0.00000	0.999639	
Sr 421.552	3	Lin Thru 0	0.0	760.5	0.00000	0.999718	
Ti 337.279	3	Lin Thru 0	0.0	39.53	0.00000	0.999775	
Tl 190.801	3	Lin Thru 0	0.0	5.920	0.00000	0.999841	

V 292.402	3	Lin Thru 0	0.0	210.2	0.00000	0.999693
Zn 206.200	3	Lin Thru 0	0.0	81.12	0.00000	0.999468

Sequence No.: 5
Sample ID: ICV 130123RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 01/23/13 12:05:55 PM
Data Type: Reprocessed on 01/24/13 9:31:01 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 130123RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	57185.3	502.5	ug/L	3.45	502.5	ug/L	3.45	0.69%
QC value within limits for Ag 338.289 Recovery = 100.49%								
Al 308.215	32856.7	24480	ug/L	122.5	24480	ug/L	122.5	0.50%
QC value within limits for Al 308.215 Recovery = 97.93%								
As 188.979	4502.6	987.7	ug/L	3.67	987.7	ug/L	3.67	0.37%
QC value within limits for As 188.979 Recovery = 98.77%								
B	3838.7	1034	ug/L	5.3	1034	ug/L	5.3	0.51%
QC value within limits for B Recovery = 103.44%								
Ba 233.527	148225.3	988.4	ug/L	2.44	988.4	ug/L	2.44	0.25%
QC value within limits for Ba 233.527 Recovery = 98.84%								
Be 313.107	5621308.2	1023	ug/L	4.9	1023	ug/L	4.9	0.48%
QC value within limits for Be 313.107 Recovery = 102.35%								
Ca 315.887	250734.1	25330	ug/L	234.2	25330	ug/L	234.2	0.92%
QC value within limits for Ca 315.887 Recovery = 101.30%								
Cd 214.440	341248.9	1072	ug/L	3.0	1072	ug/L	3.0	0.28%
QC value within limits for Cd 214.440 Recovery = 107.24%								
Co 228.616	64703.3	1006	ug/L	3.6	1006	ug/L	3.6	0.36%
QC value within limits for Co 228.616 Recovery = 100.61%								
Cr 267.716	128550.4	1039	ug/L	2.2	1039	ug/L	2.2	0.21%
QC value within limits for Cr 267.716 Recovery = 103.86%								
Cu 327.393	69121.7	992.1	ug/L	4.35	992.1	ug/L	4.35	0.44%
QC value within limits for Cu 327.393 Recovery = 99.21%								
Fe 273.955	599076.8	25920	ug/L	74.5	25920	ug/L	74.5	0.29%
QC value within limits for Fe 273.955 Recovery = 103.68%								
K 766.490	56374.7	24400	ug/L	137.2	24400	ug/L	137.2	0.56%
QC value within limits for K 766.490 Recovery = 97.60%								
Mg 285.213	477346.0	25810	ug/L	220.0	25810	ug/L	220.0	0.85%
QC value within limits for Mg 285.213 Recovery = 103.24%								
Mn 257.610	42614.6	1028	ug/L	9.6	1028	ug/L	9.6	0.94%
QC value within limits for Mn 257.610 Recovery = 102.78%								
Mo 202.031	37984.3	987.5	ug/L	2.34	987.5	ug/L	2.34	0.24%
QC value within limits for Mo 202.031 Recovery = 98.75%								
Na 589.592	248367.3	24640	ug/L	210.2	24640	ug/L	210.2	0.85%
QC value within limits for Na 589.592 Recovery = 98.56%								
Ni 231.604	60221.6	1057	ug/L	2.5	1057	ug/L	2.5	0.24%
QC value within limits for Ni 231.604 Recovery = 105.68%								
P 213.617	29954.6	4850	ug/L	10.8	4850	ug/L	10.8	0.22%
QC value within limits for P 213.617 Recovery = 97.00%								
Pb 220.353	13975.2	1037	ug/L	6.5	1037	ug/L	6.5	0.63%
QC value within limits for Pb 220.353 Recovery = 103.70%								
Sb 206.836	5665.0	993.0	ug/L	4.58	993.0	ug/L	4.58	0.46%
QC value within limits for Sb 206.836 Recovery = 99.30%								
Se 196.026	4793.3	1026	ug/L	3.0	1026	ug/L	3.0	0.29%
QC value within limits for Se 196.026 Recovery = 102.57%								
Sn 189.927	3308.5	503.4	ug/L	5.51	503.4	ug/L	5.51	1.09%
QC value within limits for Sn 189.927 Recovery = 100.67%								
Sr 421.552	764878.2	1005	ug/L	7.8	1005	ug/L	7.8	0.78%
QC value within limits for Sr 421.552 Recovery = 100.55%								
Ti 337.279	35845.2	906.3	ug/L	7.64	906.3	ug/L	7.64	0.84%
QC value within limits for Ti 337.279 Recovery = 90.63%								
Tl 190.801	6094.2	1029	ug/L	7.0	1029	ug/L	7.0	0.68%
QC value within limits for Tl 190.801 Recovery = 102.94%								
V 292.402	211094.1	1021	ug/L	3.2	1021	ug/L	3.2	0.31%
QC value within limits for V 292.402 Recovery = 102.10%								
Zn 206.200	84774.7	1055	ug/L	4.8	1055	ug/L	4.8	0.45%
QC value within limits for Zn 206.200 Recovery = 105.45%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICB 130123RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 01/23/13 12:15:06 PM
Data Type: Reprocessed on 01/24/13 9:31:02 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 130123RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	12.0	0.106	ug/L	0.1006	0.106	ug/L	0.1006	95.05%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-1.4	-0.989	ug/L	5.6995	-0.989	ug/L	5.6995	576.34%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	-1.6	-0.354	ug/L	1.2326	-0.354	ug/L	1.2326	347.95%
QC value within limits for As 188.979 Recovery = Not calculated								
B	2.1	0.525	ug/L	2.3487	0.525	ug/L	2.3487	446.97%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	40.9	0.277	ug/L	0.0888	0.277	ug/L	0.0888	32.02%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	62.7	0.011	ug/L	0.0187	0.011	ug/L	0.0187	163.28%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	-115.4	-11.65	ug/L	2.552	-11.65	ug/L	2.552	21.90%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-2.7	-0.008	ug/L	0.0668	-0.008	ug/L	0.0668	789.56%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	10.0	0.154	ug/L	0.0718	0.154	ug/L	0.0718	46.72%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-43.7	-0.352	ug/L	0.0974	-0.352	ug/L	0.0974	27.68%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-0.2	-0.003	ug/L	0.4435	-0.003	ug/L	0.4435	>999.9%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	11.9	0.498	ug/L	0.4408	0.498	ug/L	0.4408	88.52%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-69.5	-30.08	ug/L	22.467	-30.08	ug/L	22.467	74.70%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	4.4	0.239	ug/L	1.2035	0.239	ug/L	1.2035	502.63%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	1.0	0.024	ug/L	0.1546	0.024	ug/L	0.1546	654.37%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-28.8	-0.747	ug/L	0.2455	-0.747	ug/L	0.2455	32.89%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	10.2	1.032	ug/L	17.7677	1.032	ug/L	17.7677	>999.9%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-80.5	-1.416	ug/L	0.1870	-1.416	ug/L	0.1870	13.21%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	7.9	1.278	ug/L	1.8681	1.278	ug/L	1.8681	146.12%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	9.6	0.716	ug/L	0.7708	0.716	ug/L	0.7708	107.66%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.8	0.659	ug/L	0.2090	0.659	ug/L	0.2090	31.74%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-11.3	-2.383	ug/L	3.7165	-2.383	ug/L	3.7165	155.97%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	2.8	0.425	ug/L	0.2475	0.425	ug/L	0.2475	58.27%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	229.7	0.302	ug/L	0.2000	0.302	ug/L	0.2000	66.23%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-3.1	-0.078	ug/L	0.2102	-0.078	ug/L	0.2102	270.27%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	6.2	1.051	ug/L	1.4540	1.051	ug/L	1.4540	138.34%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	58.6	0.265	ug/L	0.5622	0.265	ug/L	0.5622	212.04%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-35.4	-0.441	ug/L	0.2041	-0.441	ug/L	0.2041	46.31%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 130123RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 01/23/13 12:23:51 PM
Data Type: Reprocessed on 01/24/13 9:31:04 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 130123RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-75.9	-0.667	ug/L	0.1994	-0.667	ug/L	0.1994	29.92%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	262613.3	195600	ug/L	2687.2	195600	ug/L	2687.2	1.37%
QC value within limits for Al 308.215 Recovery = 97.80%								
As 188.979	-2.7	-0.582	ug/L	0.7699	-0.582	ug/L	0.7699	132.38%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-2045.7	3.863	ug/L	2.7586	3.863	ug/L	2.7586	71.42%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	15452.6	0.525	ug/L	2.3977	0.525	ug/L	2.3977	456.41%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-325.3	-0.059	ug/L	0.0162	-0.059	ug/L	0.0162	27.37%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	1994131.6	201500	ug/L	2968.6	201500	ug/L	2968.6	1.47%
QC value within limits for Ca 315.887 Recovery = 100.73%								
Cd 214.440	3097.0	-0.063	ug/L	0.0740	-0.063	ug/L	0.0740	118.41%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	300.7	0.352	ug/L	0.5048	0.352	ug/L	0.5048	143.62%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-112.6	-0.310	ug/L	0.3747	-0.310	ug/L	0.3747	121.07%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-142.3	-2.042	ug/L	0.3516	-2.042	ug/L	0.3516	17.21%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	4375003.3	189900	ug/L	996.1	189900	ug/L	996.1	0.52%
QC value within limits for Fe 273.955 Recovery = 94.94%								
K 766.490	39.8	-104.4	ug/L	67.24	-104.4	ug/L	67.24	64.39%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3683854.4	199200	ug/L	2488.4	199200	ug/L	2488.4	1.25%
QC value within limits for Mg 285.213 Recovery = 99.59%								
Mn 257.610	-183.3	-3.343	ug/L	0.6352	-3.343	ug/L	0.6352	19.00%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-567.5	-0.277	ug/L	0.5087	-0.277	ug/L	0.5087	183.34%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	133.0	-33.84	ug/L	11.883	-33.84	ug/L	11.883	35.12%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-145.7	-2.730	ug/L	0.3025	-2.730	ug/L	0.3025	11.08%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-28.0	-4.541	ug/L	2.4502	-4.541	ug/L	2.4502	53.96%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	25.9	1.924	ug/L	0.2041	1.924	ug/L	0.2041	10.61%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-17.3	-3.036	ug/L	1.5947	-3.036	ug/L	1.5947	52.53%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-442.0	-1.778	ug/L	0.7022	-1.778	ug/L	0.7022	39.50%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	13.3	2.021	ug/L	1.4217	2.021	ug/L	1.4217	70.36%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	1689.1	-0.043	ug/L	0.0560	-0.043	ug/L	0.0560	129.73%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	82.2	-1.484	ug/L	0.9780	-1.484	ug/L	0.9780	65.89%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	0.4	0.064	ug/L	1.1750	0.064	ug/L	1.1750	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	9666.5	1.504	ug/L	0.4002	1.504	ug/L	0.4002	26.61%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	688.2	-1.358	ug/L	0.3095	-1.358	ug/L	0.3095	22.80%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 130123RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 01/23/13 12:28:27 PM
Data Type: Reprocessed on 01/24/13 9:31:05 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 130123RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	114717.8	1008	ug/L	6.9	1008	ug/L	6.9	0.69%
QC value within limits for Ag 338.289 Recovery = 100.80%								
Al 308.215	260038.3	193700	ug/L	1014.2	193700	ug/L	1014.2	0.52%
QC value within limits for Al 308.215 Recovery = 96.84%								
As 188.979	2152.6	472.2	ug/L	1.40	472.2	ug/L	1.40	0.30%
QC value within limits for As 188.979 Recovery = 94.44%								
B	-2036.3	3.074	ug/L	10.6174	3.074	ug/L	10.6174	345.34%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	85885.4	477.5	ug/L	4.92	477.5	ug/L	4.92	1.03%
QC value within limits for Ba 233.527 Recovery = 95.50%								
Be 313.107	2685556.0	489.0	ug/L	4.85	489.0	ug/L	4.85	0.99%
QC value within limits for Be 313.107 Recovery = 97.79%								
Ca 315.887	1975778.6	199600	ug/L	838.2	199600	ug/L	838.2	0.42%
QC value within limits for Ca 315.887 Recovery = 99.80%								
Cd 214.440	315574.0	982.8	ug/L	6.69	982.8	ug/L	6.69	0.68%
QC value within limits for Cd 214.440 Recovery = 98.28%								
Co 228.616	30142.8	465.6	ug/L	4.29	465.6	ug/L	4.29	0.92%
QC value within limits for Co 228.616 Recovery = 93.13%								
Cr 267.716	60275.4	487.6	ug/L	3.38	487.6	ug/L	3.38	0.69%
QC value within limits for Cr 267.716 Recovery = 97.52%								
Cu 327.393	35023.0	502.7	ug/L	5.94	502.7	ug/L	5.94	1.18%
QC value within limits for Cu 327.393 Recovery = 100.54%								
Fe 273.955	4352005.9	188800	ug/L	1605.8	188800	ug/L	1605.8	0.85%
QC value within limits for Fe 273.955 Recovery = 94.42%								
K 766.490	82.2	-86.83	ug/L	115.008	-86.83	ug/L	115.008	132.46%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	3653310.3	197500	ug/L	784.3	197500	ug/L	784.3	0.40%
QC value within limits for Mg 285.213 Recovery = 98.76%								
Mn 257.610	19686.3	475.8	ug/L	3.80	475.8	ug/L	3.80	0.80%
QC value within limits for Mn 257.610 Recovery = 95.17%								
Mo 202.031	17878.6	478.3	ug/L	0.62	478.3	ug/L	0.62	0.13%
QC value within limits for Mo 202.031 Recovery = 95.65%								
Na 589.592	7.7	-47.68	ug/L	3.057	-47.68	ug/L	3.057	6.41%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	54576.9	958.5	ug/L	6.04	958.5	ug/L	6.04	0.63%
QC value within limits for Ni 231.604 Recovery = 95.85%								
P 213.617	-0.2	-0.040	ug/L	1.3479	-0.040	ug/L	1.3479	>999.9%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	13021.8	966.2	ug/L	1.57	966.2	ug/L	1.57	0.16%
QC value within limits for Pb 220.353 Recovery = 96.62%								
Sb 206.836	2693.0	472.0	ug/L	1.36	472.0	ug/L	1.36	0.29%
QC value within limits for Sb 206.836 Recovery = 94.41%								
Se 196.026	1885.5	490.1	ug/L	3.67	490.1	ug/L	3.67	0.75%
QC value within limits for Se 196.026 Recovery = 98.02%								
Sn 189.927	6.3	0.958	ug/L	1.2265	0.958	ug/L	1.2265	127.99%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	1805.0	0.128	ug/L	0.1190	0.128	ug/L	0.1190	93.13%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	129.0	-0.226	ug/L	1.0892	-0.226	ug/L	1.0892	481.08%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2861.7	483.4	ug/L	0.94	483.4	ug/L	0.94	0.20%
QC value within limits for Tl 190.801 Recovery = 96.68%								
V 292.402	110804.0	494.2	ug/L	3.35	494.2	ug/L	3.35	0.68%
QC value within limits for V 292.402 Recovery = 98.84%								
Zn 206.200	77403.0	949.2	ug/L	8.83	949.2	ug/L	8.83	0.93%
QC value within limits for Zn 206.200 Recovery = 94.92%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 130123RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 01/23/13 12:38:09 PM
Data Type: Reprocessed on 01/24/13 9:31:06 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 130123RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	56828.9	499.3	ug/L	8.47	499.3	ug/L	8.47	1.70%
QC value within limits for Ag 338.289 Recovery = 99.86%								
Al 308.215	27410.0	20420	ug/L	125.0	20420	ug/L	125.0	0.61%
QC value within limits for Al 308.215 Recovery = 102.12%								
As 188.979	4714.1	1034	ug/L	2.0	1034	ug/L	2.0	0.20%
QC value within limits for As 188.979 Recovery = 103.41%								
B	4044.4	1070	ug/L	7.3	1070	ug/L	7.3	0.69%
QC value within limits for B Recovery = 106.97%								
Ba 233.527	151933.3	1016	ug/L	15.5	1016	ug/L	15.5	1.52%
QC value within limits for Ba 233.527 Recovery = 101.63%								
Be 313.107	5752029.8	1047	ug/L	20.0	1047	ug/L	20.0	1.91%
QC value within limits for Be 313.107 Recovery = 104.73%								
Ca 315.887	521584.0	52690	ug/L	724.0	52690	ug/L	724.0	1.37%
QC value within limits for Ca 315.887 Recovery = 105.39%								
Cd 214.440	331798.7	1043	ug/L	18.0	1043	ug/L	18.0	1.72%
QC value within limits for Cd 214.440 Recovery = 104.30%								
Co 228.616	66140.1	1028	ug/L	15.3	1028	ug/L	15.3	1.49%
QC value within limits for Co 228.616 Recovery = 102.83%								
Cr 267.716	127530.9	1030	ug/L	15.9	1030	ug/L	15.9	1.54%
QC value within limits for Cr 267.716 Recovery = 103.01%								
Cu 327.393	68370.9	981.3	ug/L	13.90	981.3	ug/L	13.90	1.42%
QC value within limits for Cu 327.393 Recovery = 98.13%								
Fe 273.955	475067.6	20530	ug/L	319.4	20530	ug/L	319.4	1.56%
QC value within limits for Fe 273.955 Recovery = 102.67%								
K 766.490	47107.7	20380	ug/L	69.7	20380	ug/L	69.7	0.34%
QC value within limits for K 766.490 Recovery = 101.90%								
Mg 285.213	964862.2	52130	ug/L	662.1	52130	ug/L	662.1	1.27%
QC value within limits for Mg 285.213 Recovery = 104.27%								
Mn 257.610	42783.9	1030	ug/L	6.2	1030	ug/L	6.2	0.60%
QC value within limits for Mn 257.610 Recovery = 103.04%								
Mo 202.031	39341.1	1022	ug/L	15.6	1022	ug/L	15.6	1.52%
QC value within limits for Mo 202.031 Recovery = 102.21%								
Na 589.592	259367.7	25730	ug/L	381.9	25730	ug/L	381.9	1.48%
QC value within limits for Na 589.592 Recovery = 102.92%								
Ni 231.604	58853.6	1033	ug/L	17.2	1033	ug/L	17.2	1.66%
QC value within limits for Ni 231.604 Recovery = 103.27%								
P 213.617	31413.1	5086	ug/L	100.7	5086	ug/L	100.7	1.98%
QC value within limits for P 213.617 Recovery = 101.73%								
Pb 220.353	14051.9	1043	ug/L	3.9	1043	ug/L	3.9	0.37%
QC value within limits for Pb 220.353 Recovery = 104.26%								
Sb 206.836	5899.5	1034	ug/L	2.9	1034	ug/L	2.9	0.28%
QC value within limits for Sb 206.836 Recovery = 103.41%								
Se 196.026	4894.3	1043	ug/L	1.2	1043	ug/L	1.2	0.11%
QC value within limits for Se 196.026 Recovery = 104.34%								
Sn 189.927	6782.4	1032	ug/L	9.8	1032	ug/L	9.8	0.95%
QC value within limits for Sn 189.927 Recovery = 103.19%								
Sr 421.552	785714.4	1033	ug/L	14.7	1033	ug/L	14.7	1.42%
QC value within limits for Sr 421.552 Recovery = 103.27%								
Ti 337.279	40483.1	1023	ug/L	5.6	1023	ug/L	5.6	0.55%
QC value within limits for Ti 337.279 Recovery = 102.33%								
Tl 190.801	6099.6	1030	ug/L	1.8	1030	ug/L	1.8	0.18%
QC value within limits for Tl 190.801 Recovery = 103.03%								
V 292.402	214099.4	1037	ug/L	16.4	1037	ug/L	16.4	1.58%
QC value within limits for V 292.402 Recovery = 103.68%								
Zn 206.200	84948.5	1057	ug/L	18.4	1057	ug/L	18.4	1.74%
QC value within limits for Zn 206.200 Recovery = 105.71%								

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB 130123RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 01/23/13 12:42:49 PM
Data Type: Reprocessed on 01/24/13 9:31:07 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 130123RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-47.9	-0.421	ug/L	0.2464	-0.421	ug/L	0.2464	58.50%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	13.0	9.732	ug/L	12.2627	9.732	ug/L	12.2627	126.00%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	5.9	1.288	ug/L	0.5747	1.288	ug/L	0.5747	44.62%
QC value within limits for As 188.979 Recovery = Not calculated								
B	34.1	8.570	ug/L	2.1190	8.570	ug/L	2.1190	24.73%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	64.1	0.434	ug/L	0.1574	0.434	ug/L	0.1574	36.30%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	288.5	0.053	ug/L	0.0217	0.053	ug/L	0.0217	41.32%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	-117.9	-11.90	ug/L	1.666	-11.90	ug/L	1.666	14.00%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	19.5	0.062	ug/L	0.0295	0.062	ug/L	0.0295	47.97%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	9.3	0.145	ug/L	0.1666	0.145	ug/L	0.1666	114.75%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-55.0	-0.443	ug/L	0.1937	-0.443	ug/L	0.1937	43.70%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	10.0	0.143	ug/L	0.5534	0.143	ug/L	0.5534	386.58%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	11.0	0.464	ug/L	0.4222	0.464	ug/L	0.4222	91.08%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-196.7	-85.14	ug/L	41.248	-85.14	ug/L	41.248	48.45%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	22.9	1.242	ug/L	0.1863	1.242	ug/L	0.1863	15.00%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-4.4	-0.106	ug/L	0.1502	-0.106	ug/L	0.1502	141.29%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-20.2	-0.523	ug/L	0.3307	-0.523	ug/L	0.3307	63.22%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	103.8	10.34	ug/L	6.696	10.34	ug/L	6.696	64.77%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-85.4	-1.502	ug/L	0.3684	-1.502	ug/L	0.3684	24.53%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	10.9	1.769	ug/L	0.8485	1.769	ug/L	0.8485	47.96%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	17.3	1.282	ug/L	0.4612	1.282	ug/L	0.4612	35.97%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	0.4	0.071	ug/L	0.8744	0.071	ug/L	0.8744	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-3.8	-0.800	ug/L	1.3319	-0.800	ug/L	1.3319	166.53%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	5.5	0.831	ug/L	1.2218	0.831	ug/L	1.2218	147.00%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	88.2	0.116	ug/L	0.1792	0.116	ug/L	0.1792	154.85%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-13.9	-0.352	ug/L	0.2815	-0.352	ug/L	0.2815	80.09%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	7.4	1.255	ug/L	0.3492	1.255	ug/L	0.3492	27.83%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	39.6	0.177	ug/L	0.1914	0.177	ug/L	0.1914	107.97%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-63.6	-0.789	ug/L	0.0796	-0.789	ug/L	0.0796	10.09%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 77
Sample ID: CCV1 130123RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 01/23/13 6:16:36 PM
Data Type: Reprocessed on 01/24/13 9:32:11 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 130123RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	57041.4	501.2	ug/L	5.06	501.2	ug/L	5.06	1.01%
QC value within limits for Ag 338.289 Recovery = 100.24%								
Al 308.215	28598.3	21310	ug/L	265.5	21310	ug/L	265.5	1.25%
QC value within limits for Al 308.215 Recovery = 106.54%								
As 188.979	4696.4	1030	ug/L	3.3	1030	ug/L	3.3	0.32%
QC value within limits for As 188.979 Recovery = 103.03%								
B	4287.8	1131	ug/L	14.8	1131	ug/L	14.8	1.31%
QC value greater than the upper limit for B Recovery = 113.10%								
Ba 233.527	152858.8	1023	ug/L	7.2	1023	ug/L	7.2	0.71%
QC value within limits for Ba 233.527 Recovery = 102.25%								
Be 313.107	5662514.0	1031	ug/L	6.0	1031	ug/L	6.0	0.58%
QC value within limits for Be 313.107 Recovery = 103.10%								
Ca 315.887	532961.5	53840	ug/L	146.7	53840	ug/L	146.7	0.27%
QC value within limits for Ca 315.887 Recovery = 107.69%								
Cd 214.440	332813.7	1046	ug/L	6.6	1046	ug/L	6.6	0.63%
QC value within limits for Cd 214.440 Recovery = 104.62%								
Co 228.616	66687.5	1037	ug/L	6.6	1037	ug/L	6.6	0.64%
QC value within limits for Co 228.616 Recovery = 103.67%								
Cr 267.716	128107.0	1035	ug/L	7.1	1035	ug/L	7.1	0.69%
QC value within limits for Cr 267.716 Recovery = 103.47%								
Cu 327.393	74159.6	1064	ug/L	10.8	1064	ug/L	10.8	1.02%
QC value within limits for Cu 327.393 Recovery = 106.44%								
Fe 273.955	477604.0	20640	ug/L	135.7	20640	ug/L	135.7	0.66%
QC value within limits for Fe 273.955 Recovery = 103.22%								
K 766.490	48848.5	21130	ug/L	329.8	21130	ug/L	329.8	1.56%
QC value within limits for K 766.490 Recovery = 105.67%								
Mg 285.213	995629.2	53790	ug/L	144.6	53790	ug/L	144.6	0.27%
QC value within limits for Mg 285.213 Recovery = 107.59%								
Mn 257.610	44995.2	1084	ug/L	15.1	1084	ug/L	15.1	1.39%
QC value within limits for Mn 257.610 Recovery = 108.36%								
Mo 202.031	39745.3	1033	ug/L	6.6	1033	ug/L	6.6	0.64%
QC value within limits for Mo 202.031 Recovery = 103.26%								
Na 589.592	258384.0	25630	ug/L	71.3	25630	ug/L	71.3	0.28%
QC value within limits for Na 589.592 Recovery = 102.53%								
Ni 231.604	59278.0	1040	ug/L	8.2	1040	ug/L	8.2	0.79%
QC value within limits for Ni 231.604 Recovery = 104.01%								
P 213.617	31758.8	5142	ug/L	32.8	5142	ug/L	32.8	0.64%
QC value within limits for P 213.617 Recovery = 102.84%								
Pb 220.353	14424.2	1070	ug/L	3.8	1070	ug/L	3.8	0.35%
QC value within limits for Pb 220.353 Recovery = 107.03%								
Sb 206.836	5786.8	1014	ug/L	2.5	1014	ug/L	2.5	0.24%
QC value within limits for Sb 206.836 Recovery = 101.43%								
Se 196.026	4943.8	1054	ug/L	2.2	1054	ug/L	2.2	0.20%
QC value within limits for Se 196.026 Recovery = 105.38%								
Sn 189.927	7167.2	1090	ug/L	4.3	1090	ug/L	4.3	0.40%
QC value within limits for Sn 189.927 Recovery = 109.05%								
Sr 421.552	778273.1	1023	ug/L	3.5	1023	ug/L	3.5	0.34%
QC value within limits for Sr 421.552 Recovery = 102.30%								
Ti 337.279	42610.2	1077	ug/L	12.6	1077	ug/L	12.6	1.17%
QC value within limits for Ti 337.279 Recovery = 107.71%								
Tl 190.801	6133.9	1036	ug/L	3.7	1036	ug/L	3.7	0.36%
QC value within limits for Tl 190.801 Recovery = 103.61%								
V 292.402	216524.9	1048	ug/L	6.8	1048	ug/L	6.8	0.65%
QC value within limits for V 292.402 Recovery = 104.85%								
Zn 206.200	85154.4	1060	ug/L	5.9	1060	ug/L	5.9	0.56%
QC value within limits for Zn 206.200 Recovery = 105.97%								

QC Failed. Continue with analysis.

Sequence No.: 78
Sample ID: CCB 130123RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 01/23/13 6:21:05 PM
Data Type: Reprocessed on 01/24/13 9:32:12 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 130123RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	-17.7	-0.155	ug/L	0.0807	-0.155	ug/L	0.0807	51.91%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	19.1	14.27	ug/L	3.744	14.27	ug/L	3.744	26.24%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	4.8	1.053	ug/L	0.4217	1.053	ug/L	0.4217	40.04%
QC value within limits for As 188.979 Recovery = Not calculated								
B	38.8	9.762	ug/L	1.8346	9.762	ug/L	1.8346	18.79%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	30.6	0.206	ug/L	0.0457	0.206	ug/L	0.0457	22.17%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-710.5	-0.129	ug/L	0.0074	-0.129	ug/L	0.0074	5.73%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	-27.1	-2.738	ug/L	1.0715	-2.738	ug/L	1.0715	39.13%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	26.7	0.084	ug/L	0.0479	0.084	ug/L	0.0479	56.81%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	30.9	0.483	ug/L	0.1374	0.483	ug/L	0.1374	28.43%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-53.8	-0.434	ug/L	0.1194	-0.434	ug/L	0.1194	27.52%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	63.7	0.914	ug/L	1.6391	0.914	ug/L	1.6391	179.28%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	51.4	2.217	ug/L	1.0710	2.217	ug/L	1.0710	48.32%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-38.6	-16.72	ug/L	76.644	-16.72	ug/L	76.644	458.42%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	35.4	1.915	ug/L	0.6940	1.915	ug/L	0.6940	36.24%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	0.4	0.010	ug/L	0.2420	0.010	ug/L	0.2420	>999.9%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-7.7	-0.199	ug/L	0.2197	-0.199	ug/L	0.2197	110.37%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	92.2	9.166	ug/L	13.9332	9.166	ug/L	13.9332	152.01%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-89.8	-1.580	ug/L	0.3804	-1.580	ug/L	0.3804	24.08%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-6.8	-1.109	ug/L	1.5552	-1.109	ug/L	1.5552	140.22%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	20.2	1.495	ug/L	0.8208	1.495	ug/L	0.8208	54.90%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-1.8	-0.316	ug/L	0.9690	-0.316	ug/L	0.9690	307.09%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	4.4	0.942	ug/L	0.5359	0.942	ug/L	0.5359	56.89%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-0.1	-0.009	ug/L	0.9371	-0.009	ug/L	0.9371	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	245.1	0.322	ug/L	0.1488	0.322	ug/L	0.1488	46.18%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-51.2	-1.294	ug/L	0.3160	-1.294	ug/L	0.3160	24.41%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	11.7	1.984	ug/L	0.4611	1.984	ug/L	0.4611	23.25%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	29.6	0.134	ug/L	0.7139	0.134	ug/L	0.7139	530.92%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-23.2	-0.290	ug/L	0.0261	-0.290	ug/L	0.0261	9.01%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 90
Sample ID: CCV2 130123RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:
Autosampler Location: 8
Date Collected: 01/23/13 7:20:00 PM
Data Type: Reprocessed on 01/24/13 9:32:23 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 130123RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	41831.1	367.5	ug/L	3.05	367.5	ug/L	3.05	0.83%
QC value within limits for Ag 338.289 Recovery = 98.01%								
Al 308.215	21001.0	15650	ug/L	312.0	15650	ug/L	312.0	1.99%
QC value within limits for Al 308.215 Recovery = 104.31%								
As 188.979	3425.4	751.4	ug/L	1.78	751.4	ug/L	1.78	0.24%
QC value within limits for As 188.979 Recovery = 100.19%								
B	3046.7	804.9	ug/L	18.49	804.9	ug/L	18.49	2.30%
QC value within limits for B Recovery = 107.31%								
Ba 233.527	112375.8	751.7	ug/L	2.41	751.7	ug/L	2.41	0.32%
QC value within limits for Ba 233.527 Recovery = 100.23%								
Be 313.107	4171882.3	759.6	ug/L	7.65	759.6	ug/L	7.65	1.01%
QC value within limits for Be 313.107 Recovery = 101.28%								
Ca 315.887	396885.9	40100	ug/L	477.9	40100	ug/L	477.9	1.19%
QC value within limits for Ca 315.887 Recovery = 106.92%								
Cd 214.440	246447.3	774.7	ug/L	3.32	774.7	ug/L	3.32	0.43%
QC value within limits for Cd 214.440 Recovery = 103.29%								
Co 228.616	49357.5	767.4	ug/L	1.78	767.4	ug/L	1.78	0.23%
QC value within limits for Co 228.616 Recovery = 102.31%								
Cr 267.716	94089.6	759.9	ug/L	1.91	759.9	ug/L	1.91	0.25%
QC value within limits for Cr 267.716 Recovery = 101.32%								
Cu 327.393	54174.8	777.6	ug/L	6.26	777.6	ug/L	6.26	0.81%
QC value within limits for Cu 327.393 Recovery = 103.67%								
Fe 273.955	350247.7	15140	ug/L	60.3	15140	ug/L	60.3	0.40%
QC value within limits for Fe 273.955 Recovery = 100.93%								
K 766.490	34829.1	15070	ug/L	188.1	15070	ug/L	188.1	1.25%
QC value within limits for K 766.490 Recovery = 100.45%								
Mg 285.213	741159.3	40050	ug/L	429.9	40050	ug/L	429.9	1.07%
QC value within limits for Mg 285.213 Recovery = 106.79%								
Mn 257.610	33206.7	799.7	ug/L	17.23	799.7	ug/L	17.23	2.15%
QC value within limits for Mn 257.610 Recovery = 106.63%								
Mo 202.031	29862.9	775.8	ug/L	2.76	775.8	ug/L	2.76	0.36%
QC value within limits for Mo 202.031 Recovery = 103.44%								
Na 589.592	190846.1	18930	ug/L	202.3	18930	ug/L	202.3	1.07%
QC value within limits for Na 589.592 Recovery = 100.97%								
Ni 231.604	43778.7	768.2	ug/L	1.75	768.2	ug/L	1.75	0.23%
QC value within limits for Ni 231.604 Recovery = 102.42%								
P 213.617	24093.7	3901	ug/L	5.3	3901	ug/L	5.3	0.14%
QC value within limits for P 213.617 Recovery = 104.03%								
Pb 220.353	10574.7	784.6	ug/L	1.41	784.6	ug/L	1.41	0.18%
QC value within limits for Pb 220.353 Recovery = 104.62%								
Sb 206.836	4186.8	733.9	ug/L	2.88	733.9	ug/L	2.88	0.39%
QC value within limits for Sb 206.836 Recovery = 97.85%								
Se 196.026	3599.7	767.4	ug/L	2.11	767.4	ug/L	2.11	0.28%
QC value within limits for Se 196.026 Recovery = 102.32%								
Sn 189.927	5258.9	800.1	ug/L	4.39	800.1	ug/L	4.39	0.55%
QC value within limits for Sn 189.927 Recovery = 106.68%								
Sr 421.552	573653.6	754.0	ug/L	8.83	754.0	ug/L	8.83	1.17%
QC value within limits for Sr 421.552 Recovery = 100.53%								
Ti 337.279	31046.2	784.8	ug/L	16.58	784.8	ug/L	16.58	2.11%
QC value within limits for Ti 337.279 Recovery = 104.64%								
Tl 190.801	4402.7	743.7	ug/L	1.42	743.7	ug/L	1.42	0.19%
QC value within limits for Tl 190.801 Recovery = 99.16%								
V 292.402	158392.9	767.3	ug/L	1.91	767.3	ug/L	1.91	0.25%
QC value within limits for V 292.402 Recovery = 102.31%								
Zn 206.200	63079.3	784.9	ug/L	3.19	784.9	ug/L	3.19	0.41%
QC value within limits for Zn 206.200 Recovery = 104.66%								

All analyte(s) passed QC.

Sequence No.: 91
Sample ID: CCB 130123RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 01/23/13 7:26:50 PM
Data Type: Reprocessed on 01/24/13 9:32:24 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 130123RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	9.3	0.081	ug/L	0.4369	0.081	ug/L	0.4369	537.14%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	5.0	3.683	ug/L	7.8809	3.683	ug/L	7.8809	213.99%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	2.6	0.564	ug/L	0.7554	0.564	ug/L	0.7554	133.96%
QC value within limits for As 188.979 Recovery = Not calculated								
B	11.9	2.996	ug/L	1.7983	2.996	ug/L	1.7983	60.03%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	17.9	0.118	ug/L	0.0957	0.118	ug/L	0.0957	81.00%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-576.4	-0.105	ug/L	0.0173	-0.105	ug/L	0.0173	16.47%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	582.4	58.84	ug/L	15.374	58.84	ug/L	15.374	26.13%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	31.8	0.100	ug/L	0.0198	0.100	ug/L	0.0198	19.81%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	15.2	0.237	ug/L	0.1041	0.237	ug/L	0.1041	43.84%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-58.1	-0.470	ug/L	0.1123	-0.470	ug/L	0.1123	23.91%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	38.6	0.554	ug/L	0.6881	0.554	ug/L	0.6881	124.14%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	108.7	4.754	ug/L	0.7262	4.754	ug/L	0.7262	15.27%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	110.9	48.00	ug/L	25.832	48.00	ug/L	25.832	53.81%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	38.7	2.092	ug/L	0.7990	2.092	ug/L	0.7990	38.19%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-7.0	-0.169	ug/L	0.1737	-0.169	ug/L	0.1737	102.85%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-17.0	-0.440	ug/L	0.2604	-0.440	ug/L	0.2604	59.20%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	378.1	37.51	ug/L	8.755	37.51	ug/L	8.755	23.34%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-99.8	-1.755	ug/L	0.4001	-1.755	ug/L	0.4001	22.80%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	158.6	25.68	ug/L	4.062	25.68	ug/L	4.062	15.82%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	11.4	0.844	ug/L	0.6411	0.844	ug/L	0.6411	75.91%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-0.6	-0.102	ug/L	0.9206	-0.102	ug/L	0.9206	906.32%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-10.1	-2.145	ug/L	1.9646	-2.145	ug/L	1.9646	91.58%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	4.0	0.605	ug/L	1.0383	0.605	ug/L	1.0383	171.62%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	20.0	0.026	ug/L	0.0940	0.026	ug/L	0.0940	362.39%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-29.1	-0.737	ug/L	0.6815	-0.737	ug/L	0.6815	92.49%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	11.4	1.932	ug/L	0.5755	1.932	ug/L	0.5755	29.79%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	-110.1	-0.535	ug/L	0.1711	-0.535	ug/L	0.1711	31.98%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-22.8	-0.286	ug/L	0.2262	-0.286	ug/L	0.2262	79.19%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	0.160	mg/kg	01/09/13	01/09/13	#6010B-130109A-AY73780
6010B	LEAD (PB)	0.50 U	0.50	0.160	mg/kg	01/23/13	01/23/13	#6010B-130123A-AY73779

Metals SC-Blank-REG MDLs
Printed: 01/24/13 10:24:56 AM

Sequence No.: 19
Sample ID: 130109A-3050-BLK
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 49
Date Collected: 01/09/13 3:28:18 PM
Data Type: Reprocessed on 01/10/13 3:53:21 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 130109A-3050-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	157.0	1.123	ug/L	0.1848	0.045	mg/kg	0.0074	16.46%
Al 308.215	6.7	15.59	ug/L	15.025	0.624	mg/kg	0.6010	96.38%
As 188.979	-1.5	-0.261	ug/L	0.7972	-0.010	mg/kg	0.0319	305.81%
B	31.1	34.72	ug/L	8.276	1.389	mg/kg	0.3310	23.83%
Ba 233.527	10.4	0.057	ug/L	0.0514	0.002	mg/kg	0.0021	89.94%
Be 313.107	-346.9	-0.051	ug/L	0.0124	-0.002	mg/kg	0.0005	24.48%
Ca 315.887	-180.7	-48.68	ug/L	3.366	-1.947	mg/kg	0.1346	6.91%
Cd 214.440	146.5	0.392	ug/L	0.0446	0.016	mg/kg	0.0018	11.37%
Co 228.616	13.6	0.178	ug/L	0.0505	0.007	mg/kg	0.0020	28.42%
Cr 267.716	61.4	0.403	ug/L	0.0701	0.016	mg/kg	0.0028	17.41%
Cu 327.393	-28.1	-0.300	ug/L	0.2539	-0.012	mg/kg	0.0102	84.57%
Fe 273.955	-44.9	-1.543	ug/L	0.7988	-0.062	mg/kg	0.0320	51.77%
K 766.490	-113.5	-279.5	ug/L	67.98	-11.18	mg/kg	2.719	24.32%
Mg 285.213	-25.5	-4.205	ug/L	0.5305	-0.168	mg/kg	0.0212	12.62%
Mn 257.610	-21.0	-1.702	ug/L	0.0924	-0.068	mg/kg	0.0037	5.43%
Mo 202.031	74.9	1.550	ug/L	0.2402	0.062	mg/kg	0.0096	15.50%
Na 589.592	137.5	102.8	ug/L	8.00	4.114	mg/kg	0.3198	7.78%
Ni 231.604	-103.1	-1.485	ug/L	0.2724	-0.059	mg/kg	0.0109	18.35%
P 213.617	290.2	38.34	ug/L	0.418	1.534	mg/kg	0.0167	1.09%
Pb 220.353	-47.2	-2.896	ug/L	0.2527	-0.116	mg/kg	0.0101	8.73%
Sb 206.836	3.7	0.511	ug/L	0.8725	0.020	mg/kg	0.0349	170.63%
Se 196.026	15.4	2.617	ug/L	1.7069	0.105	mg/kg	0.0683	65.21%
Sn 189.927	-16.9	-2.122	ug/L	0.8459	-0.085	mg/kg	0.0338	39.87%
Sr 421.552	52.6	1.555	ug/L	0.5435	0.062	mg/kg	0.0217	34.95%
Ti 337.279	1.0	0.066	ug/L	1.4403	0.003	mg/kg	0.0576	>999.9%
Tl 190.801	4.9	0.681	ug/L	0.6881	0.027	mg/kg	0.0275	101.07%
V 292.402	-117.7	-0.419	ug/L	0.2621	-0.017	mg/kg	0.0105	62.55%
Zn 206.200	-188.3	-1.982	ug/L	0.0863	-0.079	mg/kg	0.0035	4.35%

Sequence No.: 80
Sample ID: 130123A-3050-BLK
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 125
Date Collected: 01/23/13 6:29:51 PM
Data Type: Reprocessed on 01/24/13 9:32:14 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 130123A-3050-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	-28.2	-0.248	ug/L	0.2658	-0.010	mg/kg	0.0106	107.34%
Al 308.215	16.5	12.20	ug/L	4.200	0.488	mg/kg	0.1680	34.44%
As 188.979	8.2	1.802	ug/L	1.5644	0.072	mg/kg	0.0626	86.81%
B	15.6	3.977	ug/L	2.4890	0.159	mg/kg	0.0996	62.58%
Ba 233.527	92.4	0.614	ug/L	0.0515	0.025	mg/kg	0.0021	8.40%
Be 313.107	-638.6	-0.116	ug/L	0.0097	-0.005	mg/kg	0.0004	8.38%
Ca 315.887	1379.0	139.3	ug/L	3.48	5.574	mg/kg	0.1394	2.50%
Cd 214.440	171.1	0.538	ug/L	0.0080	0.022	mg/kg	0.0003	1.49%
Co 228.616	23.8	0.374	ug/L	0.5427	0.015	mg/kg	0.0217	145.30%
Cr 267.716	3.9	0.029	ug/L	0.3244	0.001	mg/kg	0.0130	>999.9%
Cu 327.393	205.7	2.953	ug/L	1.1787	0.118	mg/kg	0.0471	39.92%
Fe 273.955	413.2	17.99	ug/L	0.421	0.719	mg/kg	0.0168	2.34%
K 766.490	-126.1	-54.68	ug/L	54.715	-2.187	mg/kg	2.1886	100.06%
Mg 285.213	86.5	4.693	ug/L	0.3452	0.188	mg/kg	0.0138	7.36%
Mn 257.610	54.6	1.317	ug/L	0.0809	0.053	mg/kg	0.0032	6.14%
Mo 202.031	30.2	0.785	ug/L	0.2837	0.031	mg/kg	0.0113	36.16%
Na 589.592	174.9	17.37	ug/L	6.532	0.695	mg/kg	0.2613	37.60%
Ni 231.604	-191.6	-3.368	ug/L	0.4267	-0.135	mg/kg	0.0171	12.67%
P 213.617	246.7	39.95	ug/L	0.430	1.598	mg/kg	0.0172	1.08%
Pb 220.353	-24.2	-1.797	ug/L	1.2876	-0.072	mg/kg	0.0515	71.65%
Sb 206.836	2.5	0.441	ug/L	0.4386	0.018	mg/kg	0.0175	99.49%
Se 196.026	12.9	2.729	ug/L	0.9202	0.109	mg/kg	0.0368	33.72%
Sn 189.927	2.7	0.414	ug/L	0.6238	0.017	mg/kg	0.0250	150.74%
Sr 421.552	241.7	0.317	ug/L	0.2225	0.013	mg/kg	0.0089	70.27%
Ti 337.279	-9.2	-0.233	ug/L	0.6299	-0.009	mg/kg	0.0252	270.27%
Tl 190.801	-4.1	-0.699	ug/L	0.8045	-0.028	mg/kg	0.0322	115.03%
V 292.402	-145.0	-0.682	ug/L	0.4729	-0.027	mg/kg	0.0189	69.35%
Zn 206.200	415.0	5.115	ug/L	0.0865	0.205	mg/kg	0.0035	1.69%

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	9.7	97.0	80-120	01/09/13	01/09/13	#6010B-130109A-AY73780

Comments: _____

Sequence No.: 20
Sample ID: 130109A-3050-LCS
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 50
Date Collected: 01/09/13 3:33:35 PM
Data Type: Reprocessed on 01/10/13 3:53:22 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 130109A-3050-LCS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	13258.2	94.81	ug/L	1.070	3.792	mg/kg	0.0428	1.13%
Al 308.215	1159.0	2729	ug/L	34.5	109.2	mg/kg	1.38	1.26%
As 188.979	1300.8	230.2	ug/L	0.24	9.208	mg/kg	0.0097	0.11%
B	335.7	376.9	ug/L	4.87	15.08	mg/kg	0.195	1.29%
Ba 233.527	43264.2	236.0	ug/L	1.24	9.441	mg/kg	0.0497	0.53%
Be 313.107	332476.1	48.52	ug/L	0.332	1.941	mg/kg	0.0133	0.68%
Ca 315.887	109920.1	29610	ug/L	372.4	1185	mg/kg	14.9	1.26%
Cd 214.440	19331.9	51.56	ug/L	0.119	2.062	mg/kg	0.0048	0.23%
Co 228.616	19351.1	245.8	ug/L	1.00	9.834	mg/kg	0.0400	0.41%
Cr 267.716	38924.5	254.8	ug/L	1.97	10.19	mg/kg	0.079	0.77%
Cu 327.393	22178.9	237.1	ug/L	3.66	9.485	mg/kg	0.1463	1.54%
Fe 273.955	29076.3	1006	ug/L	7.9	40.24	mg/kg	0.315	0.78%
K 766.490	1620.7	3994	ug/L	35.8	159.8	mg/kg	1.43	0.90%
Mg 285.213	182134.1	30020	ug/L	340.9	1201	mg/kg	13.6	1.14%
Mn 257.610	4058.3	327.1	ug/L	1.83	13.08	mg/kg	0.073	0.56%
Mo 202.031	12130.9	251.5	ug/L	0.69	10.06	mg/kg	0.027	0.27%
Na 589.592	56893.2	42490	ug/L	399.8	1699	mg/kg	16.0	0.94%
Ni 231.604	17671.9	253.9	ug/L	0.45	10.15	mg/kg	0.018	0.18%
P 213.617	14538.5	1921	ug/L	5.8	76.83	mg/kg	0.233	0.30%
Pb 220.353	3958.4	243.0	ug/L	1.94	9.720	mg/kg	0.0776	0.80%
Sb 206.836	1584.1	218.1	ug/L	0.91	8.726	mg/kg	0.0365	0.42%
Se 196.026	1300.5	218.9	ug/L	2.16	8.755	mg/kg	0.0863	0.99%
Sn 189.927	2015.7	253.1	ug/L	2.48	10.12	mg/kg	0.099	0.98%
Sr 421.552	22211.4	656.7	ug/L	7.87	26.27	mg/kg	0.315	1.20%
Ti 337.279	3578.1	240.3	ug/L	1.55	9.612	mg/kg	0.0620	0.64%
Tl 190.801	1717.5	237.9	ug/L	1.33	9.516	mg/kg	0.0534	0.56%
V 292.402	65078.6	251.2	ug/L	2.29	10.05	mg/kg	0.092	0.91%
Zn 206.200	47787.4	506.9	ug/L	2.72	20.27	mg/kg	0.109	0.54%

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	10.7	107	80-120	01/23/13	01/23/13	#6010B-130123A-AY73779

Comments: _____

Sequence No.: 81
Sample ID: 130123A-3050-LCS
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 126
Date Collected: 01/23/13 6:34:14 PM
Data Type: Reprocessed on 01/24/13 9:32:15 AM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 130123A-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	11164.3	98.09	ug/L	1.993	3.924	mg/kg	0.0797	2.03%
Al 308.215	2832.1	2112	ug/L	8.5	84.48	mg/kg	0.341	0.40%
As 188.979	1131.8	248.3	ug/L	1.06	9.932	mg/kg	0.0425	0.43%
B	1055.1	266.6	ug/L	0.94	10.67	mg/kg	0.037	0.35%
Ba 233.527	37466.0	252.8	ug/L	0.62	10.11	mg/kg	0.025	0.25%
Be 313.107	284934.4	51.88	ug/L	0.474	2.075	mg/kg	0.0190	0.91%
Ca 315.887	275407.2	27830	ug/L	271.5	1113	mg/kg	10.9	0.98%
Cd 214.440	17254.0	54.36	ug/L	0.095	2.174	mg/kg	0.0038	0.17%
Co 228.616	16822.6	261.5	ug/L	0.55	10.46	mg/kg	0.022	0.21%
Cr 267.716	33573.5	271.0	ug/L	1.67	10.84	mg/kg	0.067	0.62%
Cu 327.393	19030.8	273.1	ug/L	4.11	10.93	mg/kg	0.164	1.50%
Fe 273.955	25811.2	1097	ug/L	3.1	43.89	mg/kg	0.125	0.28%
K 766.490	11538.1	4993	ug/L	46.7	199.7	mg/kg	1.87	0.94%
Mg 285.213	505045.0	27280	ug/L	227.2	1091	mg/kg	9.1	0.83%
Mn 257.610	11833.4	284.1	ug/L	1.15	11.37	mg/kg	0.046	0.41%
Mo 202.031	10194.4	264.5	ug/L	0.87	10.58	mg/kg	0.035	0.33%
Na 589.592	257634.0	25570	ug/L	227.0	1023	mg/kg	9.1	0.89%
Ni 231.604	15260.3	267.7	ug/L	0.70	10.71	mg/kg	0.028	0.26%
P 213.617	12637.4	2046	ug/L	6.0	81.85	mg/kg	0.242	0.30%
Pb 220.353	3588.1	266.2	ug/L	0.03	10.65	mg/kg	0.001	0.01%
Sb 206.836	1319.9	231.4	ug/L	1.50	9.255	mg/kg	0.0598	0.65%
Se 196.026	1143.6	241.1	ug/L	0.74	9.643	mg/kg	0.0297	0.31%
Sn 189.927	1863.8	283.6	ug/L	1.72	11.34	mg/kg	0.069	0.61%
Sr 421.552	198393.4	260.7	ug/L	2.24	10.43	mg/kg	0.089	0.86%
Ti 337.279	11009.0	278.1	ug/L	1.32	11.12	mg/kg	0.053	0.48%
Tl 190.801	1516.5	256.2	ug/L	0.85	10.25	mg/kg	0.034	0.33%
V 292.402	55472.9	269.6	ug/L	1.15	10.78	mg/kg	0.046	0.43%
Zn 206.200	43303.0	536.9	ug/L	2.84	21.48	mg/kg	0.114	0.53%

068

Metals Standards Log Book # 36

BC 1/8/13
6020/6020A
(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A
Prep Date: Today
Expires: 1 week
Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL Di Water
Lot #L12065
20 mL HCL / 2000mL Di Water
Lot #51358

Internal Standard Mix: Prep 01/07/2013

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	ABS STDS	092712-31505
50 uL	CCV-B	ABS STDS	092712-31508
50 uL	CCV-C	ABS STDS	092712-31507

Prepared in 100 mL of 1% HNO3/1.0% HCL

Standard 3

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	ABS STDS	092712-31505
25 uL	CCV-B	ABS STDS	092712-31508
25 uL	CCV-C	ABS STDS	092712-31507

Prepared in 100 mL of 1% HNO3/1.0% HCL

Intermediate-Sb
100 uL of Sb STD (CPI 12A011-30298) in 10 mL of 1% HNO3/1.0% HCL

ICV-Sb
100 uL of Intermediate-Sb in 10 mL of 1% HNO3/1.0% HCL

1/8/13 BC

Standard 2
Amount STD
500 uL Standard 4
Prepared in 50 mL of 1% HNO3/1.0% HCL

Standard 1
Amount STD
50 uL Standard 4
Prepared in 50 mL of 1% HNO3/1.0% HCL

ICP-MS ICV

Amount	STD		
50 uL	QCS ICV A	CPI	11C184-30611
50 uL	QCS ICV B	CPI	11C184-30612

Prepared in 50 mL of 1% HNO3/1.0% HCL

ICSA Prep:

1 mL	ICSA	CPI	12I082-31309

Prepared in 5 mL of 1% HNO3/1.0% HCL

ICSAB Prep:

1mL	ICSA		
0.025mL	INT	O2Si	1032370-30265

Prepared in 5 mL of 1% HNO3/1.0% HCL

ICP-LDR

Amount	STD		
50 uL	CCV-A	ABS STDS	092712-31505
50 uL	CCV-B	ABS STDS	092712-31508
50 uL	CCV-C	ABS STDS	092712-31507

Prepared in 10 mL of 1% HNO3/1.0% HCL

TBS 1/8/13
6010 B/C
(A)

1%HNO3 / 5%HCl BLK				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	EMD	UN1789-265	10/22/12
20 mL	HNO3	JT BAKER	L10023-266	10/24/12
Prepared in 2000 ml DI Water				
STD 1 / LDL 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
STD 3 / HDL 6010B/6010C				
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15
Prepared in 100 ml 1%HNO3 / 5%HCl				
STD 2 / CCV1 6010B/6010C/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
25mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	
CCV2 6010B/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
15mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICSAB				
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICV				
0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 1%HNO3/5%HCl				

TBS 1/8/13

BC 1/9/13
6020/6020A
(A)

BC 1/9/13

LOT 1/9

TBS 1/9/13
6010 B/C
(A)

1%HNO3 / 5%HCl BLK				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	EMD	UN1789-265	10/22/12
20 mL	HNO3	JT BAKER	L10023-266	10/24/12
Prepared in 2000 ml DI Water				
STD 1 / LDL 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
STD 3 / HDL 6010B/6010C				
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15
Prepared in 100 ml 1%HNO3 / 5%HCl				
STD 2 / CCV1 6010B/6010C/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
25mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	
CCV2 6010B/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
15mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICSAB				
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICV				
0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 1%HNO3/5%HCl				

TBS 1/9/13

076

Metals Standards Log Book # 36

RBS 1/22/13
6010B/C
(R)

1%HNO3 / 5%HCl BLK				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	EMD	UN1789-265	10/22/12
20 mL	HNO3	JT BAKER	L10023-266	10/24/12
Prepared in 2000 ml DI Water				
STD 1 / LDL 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.5 mL	6010 LDL	O2SI	1039165-31300	10/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
STD 3 / HDL 6010B/6010C				
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15
Prepared in 100 ml 1%HNO3 / 5%HCl				
STD 2 / CCV1 6010B/6010C/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
25mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	
CCV2 6010B/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
15mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICSAB				
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICV				
0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 1%HNO3/5%HCl				

RBS 1/22/13

LO 1/22/13

Hg WORKING STANDARDS 7470A/7471/245.1			
Hg WORKING STD	1ml 10ug/ml Hg STOCK STD. 01/03/13 exp: 01/31/13		
	and 2mL HNO3 JT Baker LOT#L12065	final conc:	50ug/L
	to final vol 200mL with milipore water	expires daily	
Hg WORKING ICV	1ml 10ug/ml Hg STOCK ICV 01/03/13 exp: 01/31/13		
	and 2mL HNO3 JT Baker LOT#L12065	final conc:	50ug/L
	to final vol 200mL with milipore water	expires daily	

LO 1/22/13

RBS 1/23/13
6010B/C
(R)

1%HNO3 / 5%HCl BLK				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	EMD	UN1789-265	10/22/12
20 mL	HNO3	JT BAKER	L10023-266	10/24/12
Prepared in 2000 ml DI Water				
STD 1 / LDL 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
STD 3 / HDL 6010B/6010C				
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15
Prepared in 100 ml 1%HNO3 / 5%HCl				
STD 2 / CCV1 6010B/6010C/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
25mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	
CCV2 6010B/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
15mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICSAB				
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICV				
0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 1%HNO3/5%HCl				

RBS 1/23/13

RBS 1/23/13

M3050

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 130109A **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 1039704-31514		
Spiked ID 2	LCSW LOT# 1039705-31515		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	01/09/13 8:45:00 AM
Witnessed By	DRA	Date:	01/09/13 8:45:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	01/09/13 13:30

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	130109A Blk				2.50g	100mL	01/09/13 8:45	equip: Modblock4
2	130109A LCS		1mL	1+2	2.50g	100mL	01/09/13 8:45	equip: Modblock4
3	AY73776	AY73776M01			2.48g	100mL	01/09/13 8:45	equip: Modblock4
4	AY73777	AY73777M01			2.52g	100mL	01/09/13 8:45	equip: Modblock4
5	AY73780	AY73780M01			2.47g	100mL	01/09/13 8:45	equip: Modblock4
6	AY73780 MS	AY73780M01	2mL	1+2	2.47g	100mL	01/09/13 8:45	equip: Modblock4
7	AY73780 MSD	AY73780M01	2mL	1+2	2.47g	100mL	01/09/13 8:45	equip: Modblock4

Solvent and Lot#
:1 HNO3 11-8-12
:NO3 J.T.B. L12065 0291
:2O2 J.T.B K20J00 0254
:CL BDH # 4112030 0290

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	DRA
Date	1/9/13
Time	16:42
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	01/08/13 3:00:28 PM

Reviewed By: DRA **Date:** 1/9/13

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 130123A **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 1039704-31514		
Spiked ID 2	LCSW LOT# 1039705-31515		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	01/23/13 8:15:00 AM
Witnessed By	LO	Date:	01/23/13 8:15:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	01/23/13 13:30

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	130123A Blk				2.50g	100mL	01/23/13 8:15	equip: Modblock4
2	130123A LCS		1mL	1+2	2.50g	100mL	01/23/13 8:15	equip: Modblock4
3	AY73775	AY73775M01			1.41g	100mL	01/23/13 8:15	equip: Modblock4
4	AY73778	AY73778M01			1.37g	100mL	01/23/13 8:15	equip: Modblock4
5	AY73779	AY73779M01			2.55g	100mL	01/23/13 8:15	equip: Modblock4
6	AY73779 MS	AY73779M01	2mL	1+2	2.55g	100mL	01/23/13 8:15	equip: Modblock4
7	AY73779 MSD	AY73779M01	2mL	1+2	2.55g	100mL	01/23/13 8:15	equip: Modblock4

Solvent and Lot#
1:1 HNO3 1-22-13
HNO3 J.T.B. L12065 0293
H2O2 J.T.B K20J00 0254
HCL BDH # 4112030 0292

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	DRA
Date	1/24/13
Time	8:21
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	01/23/13 8:16:30 AM

Reviewed By: DRA **Date:** 1/24/13

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	09 Jan 2013	13:50	CalBlk 130109RJS I:PB O:R		130109A6010	1.
2	09 Jan 2013	13:55	STD 1 130109RJS I:PB O:RJ		130109A6010	1.
3	09 Jan 2013	14:00	STD 2 130109RJS I:PB O:RJ		130109A6010	1.
4	09 Jan 2013	14:03	STD 3 130109RJS I:PB O:RJ		130109A6010	1.
5	09 Jan 2013	14:07	ICV 130109RJS I:PB O:RJS		130109A6010	1.
6	09 Jan 2013	14:12	ICB 130109RJS I:PB O:RJS		130109A6010	1.
8	09 Jan 2013	14:21	ICSA 130109RJS I:PB O:RJS		130109A6010	1.
9	09 Jan 2013	14:26	ICSAB 130109RJS I:PB O:RJ		130109A6010	1.
10	09 Jan 2013	14:36	CCV1 130109RJS I:PB O:RJS		130109A6010	1.
11	09 Jan 2013	14:44	CCB 130109RJS I:PB O:RJS		130109A6010	1.
17	09 Jan 2013	15:15	CCV2 130109RJS I:PB O:RJS		130109A6010	1.
18	09 Jan 2013	15:21	CCB 130109RJS I:PB O:RJS		130109A6010	1.
19	09 Jan 2013	15:28	130109A-3050-BLK		130109A6010	1.
20	09 Jan 2013	15:33	130109A-3050-LCS		130109A6010	1.
21	09 Jan 2013	15:38	AY73776M01		130109A6010	1.
28	09 Jan 2013	16:17	CCV1 130109RJS I:PB O:RJS		130109A6010	1.
29	09 Jan 2013	16:24	CCB 130109RJS I:PB O:RJS		130109A6010	1.

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	23 Jan 2013	11:49	CalBlk 130123RJS I:PB O:R		130123A6010	1.
2	23 Jan 2013	11:54	STD 1 130123RJS I:PB O:RJ		130123A6010	1.
3	23 Jan 2013	11:58	STD 2 130123RJS I:PB O:RJ		130123A6010	1.
4	23 Jan 2013	12:02	STD 3 130123RJS I:PB O:RJ		130123A6010	1.
5	23 Jan 2013	12:05	ICV 130123RJS I:PB O:RJS		130123A6010	1.
6	23 Jan 2013	12:15	ICB 130123RJS I:PB O:RJS		130123A6010	1.
8	23 Jan 2013	12:23	ICSA 130123RJS I:PB O:RJS		130123A6010	1.
9	23 Jan 2013	12:28	ICSAB 130123RJS I:PB O:RJ		130123A6010	1.
10	23 Jan 2013	12:38	CCV1 130123RJS I:PB O:RJS		130123A6010	1.
11	23 Jan 2013	12:42	CCB 130123RJS I:PB O:RJS		130123A6010	1.
77	23 Jan 2013	18:16	CCV1 130123RJS I:PB O:RJS		130123A6010	1.
78	23 Jan 2013	18:21	CCB 130123RJS I:PB O:RJS		130123A6010	1.
80	23 Jan 2013	18:29	130123A-3050-BLK		130123A6010	1.
81	23 Jan 2013	18:34	130123A-3050-LCS		130123A6010	1.
82	23 Jan 2013	18:39	AY73775M01		130123A6010	1.
83	23 Jan 2013	18:45	AY73778M01		130123A6010	1.
84	23 Jan 2013	18:51	AY73779M01		130123A6010	1.
87	23 Jan 2013	19:05	AY73779M01-A		130123A6010	1.
90	23 Jan 2013	19:20	CCV2 130123RJS I:PB O:RJS		130123A6010	1.
91	23 Jan 2013	19:26	CCB 130123RJS I:PB O:RJS		130123A6010	1.

Wetlab Results

ARF: 69676

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
APPL ID: AY73776 -Client Sample ID: GT13003L			-Sample Collection Date: 01/06/13		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	72.0	2.0	%	01/08/13	01/09/13
APPL ID: AY73779 -Client Sample ID: GT13002L			-Sample Collection Date: 01/06/13		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	71.9	2.0	%	01/21/13	01/22/13

Printed: 01/23/13 1:21:42 PM

% Moisture

Batch: QCG 130108-M004607

Method: CLP 4.0

Date: 01/08/13 15:38

Sample	Container	Pan (g)	Pan+Wet (g)	Pan+Dry 1 (g)	Pan+Dry 2 (g)	Moisture (%)	Comments
AY73780D	m01	0.8399 01/08/13 15:38	8.1416 01/08/13 15:39	2.5212 01/09/13 09:57	2.5212 01/09/13 09:57	76.974	ay73780m01
AY73780	m01	0.8408 01/08/13 15:36	8.1671 01/08/13 15:38	2.5401 01/09/13 09:56	2.5401 01/09/13 09:56	76.805	ay73780m01
AY73777	m01	0.8434 01/08/13 15:35	7.2573 01/08/13 15:36	2.3509 01/09/13 09:56	2.3510 01/09/13 09:56	76.495	ay73777m01
AY73776	m01	0.8368 01/08/13 15:34	8.2486 01/08/13 15:35	2.9092 01/09/13 09:56	2.9094 01/09/13 09:56	72.036	ay73776m01

Date/Time InOven@104°C	Date/Time OutOven@104°C	Date/Time InOven@104°C	Date/Time OutOven@104°C
01/08/13 3:40:00 PM			01/09/13 9:56:00 AM

% Moisture

Batch: QCG 130121-M004616

Method: CLP 4.0

Date: 01/21/13 16:02

Sample	Container	Pan (g)	Pan+Wet (g)	Pan+Dry 1 (g)	Pan+Dry 2 (g)	Moisture (%)	Comments
AY74089D	s11	0.8526 01/21/13 16:02	7.5230 01/21/13 16:03	5.6785 01/22/13 11:52	5.6785 01/22/13 11:52	27.652	AY74089S11
AY74089	s11	0.8452 01/21/13 16:01	7.8916 01/21/13 16:02	6.0576 01/22/13 11:51	6.0576 01/22/13 11:51	26.027	AY74089S11
AY74088	s04	0.8478 01/21/13 16:00	7.2631 01/21/13 16:00	5.1191 01/22/13 11:51	5.1192 01/22/13 11:51	33.419	AY74088S04
AY74087	s04	0.8360 01/21/13 15:58	8.1174 01/21/13 15:59	5.6286 01/22/13 11:51	5.6288 01/22/13 11:51	34.177	AY74087S04
AY73779	m01	0.8397 01/21/13 15:57	8.2549 01/21/13 15:58	2.9205 01/22/13 11:50	2.9205 01/22/13 11:50	71.939	ay73779m01

Date/Time InOven@104°C	Date/Time OutOven@104°C	Date/Time InOven@104°C	Date/Time OutOven@104°C
01/21/13 3:58:00 PM			01/22/13 11:50:00 AM

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
1-18-13	CK	Mettler AT200	0.5g	0.4999 g	0.4995	0.5005	yes
		Mettler AT200	1g	1.0002 g	0.9990	1.0010	
		Mettler AT200	20g	20.0007 g	19.9800	20.0200	
		Mettler AT200	50g	50.0010 g	49.9500	50.0500	
		Mettler AT200	100g	100.0024 g	99.9000	100.1000	
		Mettler AT200	150g	150.0037 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.01 g	980.00	1020.00	
			2kg	2000.01 g	1960.00	2040.00	
1-21-13	CK	Mettler AT200	0.5g	0.4997 g	0.4995	0.5005	yes
		Mettler AT200	1g	0.9998 g	0.9990	1.0010	
		Mettler AT200	20g	20.0002 g	19.9800	20.0200	
		Mettler AT200	50g	50.0010 g	49.9500	50.0500	
		Mettler AT200	100g	100.0020 g	99.9000	100.1000	
		OHAUS ARC120	150g	150.0032 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
			2kg	2000.01 g	1960.00	2040.00	
1-22-13	CK	Mettler AT200	0.5g	0.5002 g	0.4995	0.5005	yes
		Mettler AT200	1g	1.0001 g	0.9990	1.0010	
		Mettler AT200	20g	20.0006 g	19.9800	20.0200	
		Mettler AT200	50g	50.0012 g	49.9500	50.0500	
		Mettler AT200	100g	100.0024 g	99.9000	100.1000	
		OHAUS ARC120	150g	150.0036 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	999.99 g	980.00	1020.00	
			2kg	2000.01 g	1960.00	2040.00	
1-23-13	CK	Mettler AT200	0.5g	0.5000 g	0.4995	0.5005	yes
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0005 g	19.9800	20.0200	
		Mettler AT200	50g	50.0013 g	49.9500	50.0500	
		Mettler AT200	100g	100.0025 g	99.9000	100.1000	
		OHAUS ARC120	150g	150.0037 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
			2kg	2000.02 g	1960.00	2040.00	

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
1/8/13	BB	Mettler AT200	0.5g	0.5002 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0003 g	0.9990	1.0010	
		Mettler AT200	20g	20.0005 g	19.9800	20.0200	
		Mettler AT200	50g	50.0012 g	49.9500	50.0500	
		Mettler AT200	100g	100.0021 g	99.9000	100.1000	
		Mettler AT200	150g	150.0030 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.01 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
1-9-13	CK	Mettler AT200	0.5g	0.50002 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0002 g	0.9990	1.0010	
		Mettler AT200	20g	20.0006 g	19.9800	20.0200	
		Mettler AT200	50g	50.0010 g	49.9500	50.0500	
		Mettler AT200	100g	100.0020 g	99.9000	100.1000	
		Mettler AT200	150g	150.0028 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	999.99 g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.98 g	1960.00	2040.00	
1-10-13	CK	Mettler AT200	0.5g	0.5001 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0004 g	19.9800	20.0200	
		Mettler AT200	50g	50.0010 g	49.9500	50.0500	
		Mettler AT200	100g	100.0019 g	99.9000	100.1000	
		Mettler AT200	150g	150.0029 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.01 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.01 g	1960.00	2040.00	
1/11/13	BB	Mettler AT200	0.5g	0.4997 g	0.4995	0.5005	Yes
		Mettler AT200	1g	0.9996 g	0.9990	1.0010	
		Mettler AT200	20g	20.0001 g	19.9800	20.0200	
		Mettler AT200	50g	50.0007 g	49.9500	50.0500	
		Mettler AT200	100g	100.0016 g	99.9000	100.1000	
		Mettler AT200	150g	150.0024 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.01 g	1960.00	2040.00	

Laboratory Report

Parsons

Project #: 748350.02000 CSSA

ARF: 69677

Samples collected: January 6, 2013

APPL, Inc.

Data Validatable Package

for

Project #: 748350.02000 CSSA

ARF 69677

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CASE NARRATIVE

908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

EPA Method 6010B
Metals

Case Narrative

ARF: 69677

Project: 748350.02000 CSSA

California State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Texas Certificate Number: T104704242-10-3

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

Three miscellaneous samples were received January 8, 2013, at 3.5°C. The samples were assigned Analytical Request Form (ARF) number 69677. The sample numbers and requested analysis were compared to the chains of custody and email communication. Sample GT13001 was discarded, as instructed. No other exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
GT13003M	AY73777	MISC	1/6/2013	1/8/2013
GT13002M	AY73780	MISC	1/6/2013	1/8/2013

Percent moisture was determined using CLP 4.0.

Digestion Information:

The muscle (meat) samples were frozen and homogenized according to APPL's SOP PRE003. An aliquot of the homogenized sample was digested according to EPA method 3050B. Since the laboratory was unable to obtain a similar clean matrix, the blank and the LCS were digested according to APPL's SOP PRE3050B. No other exception was encountered. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed according to EPA method 6010B using a Perkin Elmer Optima 5300DV ICP.

Calibrations:

Calibrations were performed according to the method for the initial calibration and the initial calibration verification. The initial calibration verification is prepared from a second source standard. All other calibration acceptance criteria were met.

Blanks:

No target metal was detected above the reporting limit (RL) in the method blank.

Spikes:

A Laboratory Control Spike (LCS), post-digestion spike (PDS), and dilution test (DT) were used for quality assurance. All LCS acceptance criteria were met.

Sample GT13002M was selected by the laboratory as the QC sample for the analytical batch. The DT was not applicable. The PDS met acceptance criteria.

Summary:

No other analytical exception is noted.

CERTIFICATION

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. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

1-18-13

Sharon Dehmlow, Laboratory Director / Date

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 69677

Client: **Parsons**
Address: **8000 Centre Park Drive Ste 200**
Austin, TX 78754
Attn: **Tammy Chang**
Phone: **512-719-6092** Fax: **512-719-6099**
Job: **748350.02000 CSSA**
PO #: **748350.30002 (prime *G012)**
Chain of Custody (Y/N): **Y** # **010713APPFA**
RAD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **7 DAYS**

Received by: **WLA**
Date Received: **01/08/13** Time: **12:05**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **-6**
Chest Temp(s): **3.5°C**
Color: **A_FREZ**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Diane Anderson** mp
QC Report Type: **DVP4/AFCEE/ERPIMS/TX**
Due Date: **01/15/13**

Comments:
Prelim muscle (meat) data due in 7 calendar days; final report due in 14 calendar days.
pdf ARF to Tammy & Pam; send 1 DVP3 HC & send DVP3 & DVP4 on CD to Tammy.
Case Narrative. CSSA QAPP. Only report MS/MSD when requested.
Report results on APPL forms: U to the RL-no J values;
eport results in wet weight (without moisture correction)
Wait to do moisture analysis after metals analysis.
EDD: ERPIMS 4 Lab PC4 checked TXF to Pamela.Ford@parsons.com
Please see attached email for sample cancellation. 01/08/12 cm

1-9-13 Sent ARF

Sample Distribution:
Metals: 2-$6010BDODS(Pb)
Wetlab: 2-MOIST
Other: 2-_M3050

Charges:

Invoice To:
PARSONS GOV'T SERV.
8000 Centre Park Drive Ste 200
Austin, TX 78754-5140
Attn: Ellen Felfe

	Client ID	APPL ID	Sampled	Analyses Requested
1.	GT13003M	AY73777M	01/06/13 13:45	$6010BDODS(Pb), MOIST
2.	GT13002M	AY73780M	01/06/13 15:00	$6010BDODS(Pb), MOIST

APPL Sample Receipt Form

ARF# **69677**

Sample	Container Type	Count	pH
AY73777	35 Plastic Bag	1	NA
AY73780	35 Plastic Bag	1	NA

Sample	Container Type	Count	pH

Chue Moua

From: Renee Patterson [rpatterson@applinc.com]
Sent: Tuesday, January 08, 2013 2:25 PM
To: receiving@applinc.com
Cc: 'Chue Moua'
Subject: FW: animal tissue samples
Attachments: image001.jpg; DOC010813.pdf

please discard the turkey samples GT13001

Doe muscle GT13002M & GT13003M on 7-day TAT. Doe bone GT13002B & GT13003B and liver GT13002L & GT13003L on STD TAT.

From: Chang, Tammy [mailto:Tammy.Chang@parsons.com]
Sent: Tuesday, January 08, 2013 2:06 PM
To: Renee Patterson; Diane Anderson
Cc: Burdey, Julie; de las Fuentes, Sandra
Subject: RE: animal tissue samples

Discard
Thanks

Tammy

From: Renee Patterson [mailto:rpatterson@applinc.com]
Sent: Tuesday, January 08, 2013 3:04 PM
To: Chang, Tammy; 'Diane Anderson'
Subject: RE: animal tissue samples

Tammy,

We've received the animal tissue samples. As described below, all body parts for samples GT13001 and GT13003 are together in one bag. Now that the contents have defrosted, it is easy enough to tell them apart. The doe (GT13003) muscle, liver and bone are easily separated into samples GT13003M, GT13003L, and GT13003B.

What shall we do with the 4 distinct body parts from the turkey GT13001? gizzard, bone, lung, and heart?

Thank you for your help,

renée

From: Chang, Tammy [mailto:Tammy.Chang@parsons.com]
Sent: Monday, January 07, 2013 2:51 PM
To: rpatterson@applinc.com; Diane Anderson; rwise; Jeremy Hale
Subject: FW: animal tissue samples

More detail instructions will come from our PM tonight or tomorrow morning.
Tammy

From: Elliott, Samantha
Sent: Monday, January 07, 2013 1:32 PM
To: Chang, Tammy

Cc: Rembish, Steve J; de las Fuentes, Sandra; Burdey, Julie; Cannizzo, James V CIV USA IMCOM; Ford, Pamela
Subject: animal tissue samples

Tammy,

One cooler going to APPL today with 1 turkey and 2 doe samples. The label on the turkey sample (GT13001) provided by the hunter said gizzard, heart, lung, and bone. All the turkey parts were frozen together so I could not separate them apart or figure out what was what unless I thaw it out. I went ahead a stuck with the same naming convention and put all the labels on one bag. Sample GT13003 didn't look like it was all there, same problem, everything was frozen together so all labels were placed on one bag. I'm sending all of the sample the hunters provided. See attached. Also attached it the updated hunting log.

Thanks,
Samantha Elliott
Scientist
(210) 347-6012
PARSONS

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This message has been scanned for viruses and
dangerous content by **MailScanner**, and is
believed to be clean.

Camp Stanley Storage Activity Chain Of Custody

69676 3.5°

COC ID:	010713APPFA	Relinquish_Date:	1/7/2013	Cooler ID:	A
Project Location:	CSSA	Relinquished_By:	SE	LabCode:	APPF
Job Number:	748350.02000	Relinquish_Time:	2:00 PM	Carrier:	FedEx
Creation Date:	1/7/2013	Collection Team:	SE	Airbill Carrier:	876436444866
Task Manager	Steve Rembish	Sample Data Type	Definitive	TAT:	7 Day TAT

Sampler(s): Sam Elliott S. Elliott

69677

LOCID:	GT13001B	LOGDATE:	1/5/2013	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	9:45	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT13001B_010513_N0945					EBLOT:	Containers:	1
Remarks:	turkey									
LOCID:	GT13001L	LOGDATE:	1/5/2013	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	9:45	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT13001L_010513_N0945					EBLOT:	Containers:	1
Remarks:	turkey									
LOCID:	GT13001M	LOGDATE:	1/5/2013	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	9:45	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT13001M_010513_N0945					EBLOT:	Containers:	1
Remarks:	turkey									
LOCID:	GT13003B	LOGDATE:	1/6/2013	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	13:45	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT13003B_010613_N1345					EBLOT:	Containers:	1
Remarks:	doe									
LOCID:	GT13003L	LOGDATE:	1/6/2013	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	13:45	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT13003L_010613_N1345					EBLOT:	Containers:	1
Remarks:	doe									
LOCID:	GT13003M	LOGDATE:	1/6/2013	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	13:45	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT13003M_010613_N1345					EBLOT:	Containers:	1
Remarks:	doe									
LOCID:	GT13002B	LOGDATE:	1/6/2013	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	15:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT13002B_010613_N1500					EBLOT:	Containers:	1
Remarks:	doe									
LOCID:	GT13002L	LOGDATE:	1/6/2013	MATRIX:	TA	TBLOT:			Analysis Required:	
SBD:	0	LOGTIME:	15:00	SACODE:	N	SMCODE:	G	ABLOT:		SW6010B LEAD
SED:	0	FLDSAMPID	GT13002L_010613_N1500					EBLOT:	Containers:	1
Remarks:	doe									

Relinquished by: S. Elliott Date 1/7/13 Time 1400
Recieved by: Bill Jobe Date 1/8/13 Time 1205

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date _____ Time _____

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date _____ Time _____

Camp Stanley Storage Activity Chain Of Custody

COC ID: 010713APPFA
Project Location: CSSA
Job Number: 748350.02000
Creation Date: 1/7/2013
Task Manager Steve Rembish

Relinquish_Date: 1/7/2013
Relinquished_By: SE
Relinquish_Time: 2:00 PM
Collection Team: SE
Sample Data Type Definitive

Cooler ID: A
LabCode: APPF
Carrier: FedEx
Airbill Carrier: 876436444866
TAT: 7 Day TAT

Sampler(s): Sam Elliott
Sam Elliott

LOCID: GT13002M LOGDATE: 1/6/2013 MATRIX: TA TBLOT:
SBD: 0 LOGTIME: 15:00 SACODE: N SMCODE: G ABLOT:
SED: 0 FLDSAMPID GT13002M_010613_N1500 EBLOT:
Remarks: doe

Containers: 1

Analysis Required:
SW6010B LEAD

Relinquished by: S. E. Elliott Date 1/7/13 Time 1400
Recieved by: Will Date 1/8/13 Time 1205

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date _____ Time _____

Relinquished by: _____ Date _____ Time _____
Recieved by: _____ Date _____ Time _____

COOLER RECEIPT FORM

1) Project: 748350.02000 CSSA Date Received: 1/8/13
2) Coolers: Number of Coolers: 1
3) YES NO Were coolers and samples screened for radioactivity?
4) YES NO Were custody seals on outside of cooler? How many? 1 Date on seal? 1/7/13
5) Name on seal? See label
6) YES NO NA Were custody seals unbroken and intact at the time of arrival?
7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex
8) Shipping slip numbers: 1) 8764 3644 4866 2) 3)
9) YES NO NA Was the shipping slip scanned into the database?
10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?
11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Ziploc, in wet ice
12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?
13) YES NO Was a temperature blank included in the cooler?
14) Serial number of certified NIST thermometer used: JS297 Correction factor: 0
15) Cooler temp(s): 1) 3.5°C 2) 3) 4) 5) 6) 7) 8)

Chain of custody:

16) YES NO Was a chain of custody received?
17) YES NO Were the custody papers signed in the appropriate places?
18) YES NO Was the project identifiable from custody papers?
19) YES NO Did the chain of custody include date and time of sampling?
20) YES NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) YES NO Were container labels in good condition?
22) YES NO Was the client ID on the label?
23) YES NO Was the date of sampling on the label?
24) YES NO Was the time of sampling on the label?
25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?
27) YES NO Did all containers arrive unbroken?
28) YES NO Was there any leakage from samples?
29) YES NO Were any of the lids cracked or broken?
30) YES NO Were correct containers used for the tests indicated?
31) YES NO Was a sufficient amount of sample sent for tests indicated?
32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:
Larger than a pea:
Smaller than a pea:

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?
34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?
35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?
36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?
37) YES NO NA Unpreserved VOA Vials received?
38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

Lab notified if pH was not adequate:
Deficiencies:

Signature of personnel receiving samples: Yang Lo Second reviewer:
Signature of project manager notified: Date and Time of notification:
Name of client notified: Date and Time of notification:
Information given to client:
by whom (Initials):

CUSTODY SEAL
APPL, Inc.
(559) 275-2175
Initials
Date 1/7/13

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	01/09/13	01/09/13	#6010B-130109A-AY73780

Metals SC-Blank-REG MDLs
Printed: 01/18/13 12:49:57 PM

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	9.7	97.0	80-120	01/09/13	01/09/13	#6010B-130109A-AY73780

Comments: _____

METALS
Sample Data

APPL, INC.

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT13003M
Sample Collection Date: 01/06/13

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69677
APPL ID: AY73777

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	112	0.50	mg/kg	1	01/09/13	01/09/13

Printed: 01/18/13 12:49:27 PM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 22
Sample ID: AY73777M01
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.52 g
Dilution:

Autosampler Location: 52
Date Collected: 01/09/13 3:44:18 PM
Data Type: Reprocessed on 01/10/13 3:53:24 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY73777M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	373.6	2.671	ug/L	0.4854	0.106	mg/kg	0.0193	18.17%
Al 308.215	84.2	198.6	ug/L	3.98	7.881	mg/kg	0.1580	2.00%
As 188.979	27.1	4.794	ug/L	1.1120	0.190	mg/kg	0.0441	23.20%
B	20.4	27.37	ug/L	2.486	1.086	mg/kg	0.0986	9.08%
Ba 233.527	31773.4	172.9	ug/L	1.66	6.860	mg/kg	0.0658	0.96%
Be 313.107	-460.8	-0.067	ug/L	0.0032	-0.003	mg/kg	0.0001	4.82%
Ca 315.887	20899.2	5626	ug/L	42.6	223.3	mg/kg	1.69	0.76%
Cd 214.440	217.7	0.669	ug/L	0.0339	0.027	mg/kg	0.0013	5.06%
Co 228.616	584.9	7.095	ug/L	0.0994	0.282	mg/kg	0.0039	1.40%
Cr 267.716	65181.1	426.8	ug/L	4.70	16.94	mg/kg	0.187	1.10%
Cu 327.393	3421.8	36.59	ug/L	1.277	1.452	mg/kg	0.0507	3.49%
Fe 273.955	36617.4	1291	ug/L	14.1	51.25	mg/kg	0.561	1.09%
K 766.490	16965.8	41800	ug/L	487.5	1659	mg/kg	19.3	1.17%
Mg 285.213	30646.2	5051	ug/L	53.8	200.4	mg/kg	2.14	1.07%
Mn 257.610	143.7	11.45	ug/L	0.457	0.454	mg/kg	0.0182	4.00%
Mo 202.031	60.8	1.578	ug/L	0.3766	0.063	mg/kg	0.0149	23.86%
Na 589.592	27902.4	20820	ug/L	215.0	826.3	mg/kg	8.53	1.03%
Ni 231.604	12.9	0.129	ug/L	0.1014	0.005	mg/kg	0.0040	78.53%
P 213.617	233894.6	30900	ug/L	314.5	1226	mg/kg	12.5	1.02%
Pb 220.353	46033.4	2826	ug/L	35.6	112.1	mg/kg	1.41	1.26%
Sb 206.836	64.1	8.822	ug/L	0.6103	0.350	mg/kg	0.0242	6.92%
Se 196.026	98.1	15.68	ug/L	1.926	0.622	mg/kg	0.0764	12.28%
Sn 189.927	-23.3	-2.930	ug/L	1.1482	-0.116	mg/kg	0.0456	39.19%
Sr 421.552	1121.6	33.22	ug/L	0.804	1.318	mg/kg	0.0319	2.42%
Ti 337.279	331.9	22.06	ug/L	0.301	0.876	mg/kg	0.0119	1.36%
Tl 190.801	-9.1	-1.262	ug/L	0.4137	-0.050	mg/kg	0.0164	32.77%
V 292.402	-700.1	0.874	ug/L	0.1261	0.035	mg/kg	0.0050	14.42%
Zn 206.200	183036.6	1934	ug/L	19.0	76.74	mg/kg	0.753	0.98%

Metals Analysis

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang
Project: 748350.02000 CSSA
Sample ID: GT13002M
Sample Collection Date: 01/06/13

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 69677
APPL ID: AY73780

Method	Analyte	Result	PQL	Units	DF	Prep Date	Analysis Date
6010B/3050B	LEAD (PB)	0.50 U	0.50	mg/kg	1	01/09/13	01/09/13

Printed: 01/18/13 12:49:27 PM

APPL-F1-SC-NoMC-REG MDLs

Sequence No.: 23
Sample ID: AY73780M01
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.47 g
Dilution:

Autosampler Location: 53
Date Collected: 01/09/13 3:49:40 PM
Data Type: Reprocessed on 01/10/13 3:53:25 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY73780M01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	146.4	1.047	ug/L	0.1978	0.042	mg/kg	0.0080	18.89%
Al 308.215	15.9	37.61	ug/L	19.707	1.523	mg/kg	0.7979	52.39%
As 188.979	12.2	2.166	ug/L	0.4394	0.088	mg/kg	0.0178	20.29%
B	20.7	25.24	ug/L	3.096	1.022	mg/kg	0.1253	12.27%
Ba 233.527	323.0	1.366	ug/L	0.0364	0.055	mg/kg	0.0015	2.67%
Be 313.107	-384.5	-0.056	ug/L	0.0025	-0.002	mg/kg	0.0001	4.52%
Ca 315.887	5621.3	1510	ug/L	21.9	61.12	mg/kg	0.886	1.45%
Cd 214.440	120.3	0.254	ug/L	0.0278	0.010	mg/kg	0.0011	10.94%
Co 228.616	24.2	0.251	ug/L	0.0570	0.010	mg/kg	0.0023	22.76%
Cr 267.716	312.3	2.030	ug/L	0.0455	0.082	mg/kg	0.0018	2.24%
Cu 327.393	3407.9	36.44	ug/L	1.066	1.475	mg/kg	0.0432	2.93%
Fe 273.955	15757.4	554.7	ug/L	10.39	22.46	mg/kg	0.421	1.87%
K 766.490	26797.8	66020	ug/L	530.4	2673	mg/kg	21.5	0.80%
Mg 285.213	43106.8	7103	ug/L	55.1	287.6	mg/kg	2.23	0.78%
Mn 257.610	49.1	3.623	ug/L	0.2068	0.147	mg/kg	0.0084	5.71%
Mo 202.031	46.8	1.131	ug/L	0.1146	0.046	mg/kg	0.0046	10.13%
Na 589.592	19850.8	14800	ug/L	127.6	599.2	mg/kg	5.16	0.86%
Ni 231.604	-29.2	-0.491	ug/L	0.0670	-0.020	mg/kg	0.0027	13.64%
P 213.617	335725.7	44350	ug/L	893.9	1796	mg/kg	36.2	2.02%
Pb 220.353	-30.8	-1.889	ug/L	0.5390	-0.076	mg/kg	0.0218	28.54%
Sb 206.836	4.0	0.549	ug/L	0.2083	0.022	mg/kg	0.0084	37.91%
Se 196.026	100.9	15.26	ug/L	1.186	0.618	mg/kg	0.0480	7.77%
Sn 189.927	-53.3	-6.698	ug/L	0.4497	-0.271	mg/kg	0.0182	6.71%
Sr 421.552	240.9	7.292	ug/L	0.2548	0.295	mg/kg	0.0103	3.49%
Ti 337.279	11.4	0.392	ug/L	1.1883	0.016	mg/kg	0.0481	303.12%
Tl 190.801	-6.7	-0.929	ug/L	0.7942	-0.038	mg/kg	0.0322	85.50%
V 292.402	-149.6	-0.776	ug/L	0.2761	-0.031	mg/kg	0.0112	35.60%
Zn 206.200	62446.9	659.1	ug/L	9.72	26.68	mg/kg	0.393	1.47%

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No: 69677 SDG: 69677

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 01/09/13 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 14:07	%R(1)	True CCV1	Found 14:36	%R(1)	True CCV2	Found 15:15	%R(1)	
Lead (Pb)	1000	1007	101	1000	984.5	98.5	750	779.1	104	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No: 69677 SDG: 69677

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 01/09/13 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 14:07	%R(1)	True CCV1	Found 16:17	%R(1)	True	Found	%R(1)	
Lead (Pb)	1000	1007	101	1000	990.3	99.0				P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69677 SDG: 69677

Preparation Blank Matrix (soil/water): soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analysis Date: 01/09/13

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C			
	14:12		14:44		15:21		16:24		15:28				
Lead (Pb)	5.00	U	5.00	U	5.00	U	5.00	U	.50	U	P		

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC. Contract: Parsons
ARF No.: 69677 SDG: 69677
ICP ID Number: Phoebe ICS Source: Environmental Express

Analysis Date: 01/09/13 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 14:21	Sol AB 14:26	%R(1)
Aluminum (Al)	200000	200000	204800	209900	105
Calcium (Ca)	200000	200000	198900	202300	101
Iron (Fe)	200000	200000	178700	177700	88.8
Magnesium (Mg)	200000	200000	199300	203200	102
Lead (Pb)		1000	0.863	913.8	91.4

(1) Control Limits: Metals 80-120

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

GT13002M

Lab Name: A.P.P.L. INC. Contract: Parsons

ARF No.: 69677 SDG: 69677

Analysis Date: 01/09/13 Concentration Units: mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	19.06		ND		20.243	94.2		

Comments:

01/09/13 15:49 AY73780M01

01/09/13 16:05 AY73780M01-A

Sequence No.: 26
Sample ID: AY73780M01-A
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.47 g
Dilution:

Autosampler Location: 56
Date Collected: 01/09/13 4:05:48 PM
Data Type: Reprocessed on 01/10/13 3:53:28 PM

Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: AY73780M01-A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 338.289	25633.1	183.3	ug/L	0.68	7.421	mg/kg	0.0273	0.37%
Al 308.215	2288.2	5389	ug/L	13.3	218.2	mg/kg	0.54	0.25%
As 188.979	2505.3	443.4	ug/L	0.51	17.95	mg/kg	0.021	0.11%
B	635.4	715.7	ug/L	4.99	28.98	mg/kg	0.202	0.70%
Ba 233.527	85134.5	464.1	ug/L	3.91	18.79	mg/kg	0.159	0.84%
Be 313.107	643726.5	93.94	ug/L	0.707	3.803	mg/kg	0.0286	0.75%
Ca 315.887	217883.9	58690	ug/L	960.5	2376	mg/kg	38.9	1.64%
Cd 214.440	36203.3	96.48	ug/L	0.812	3.906	mg/kg	0.0329	0.84%
Co 228.616	37797.4	480.1	ug/L	3.73	19.44	mg/kg	0.151	0.78%
Cr 267.716	74418.1	487.2	ug/L	3.92	19.72	mg/kg	0.159	0.80%
Cu 327.393	49528.0	529.6	ug/L	2.42	21.44	mg/kg	0.098	0.46%
Fe 273.955	70809.3	2458	ug/L	20.4	99.50	mg/kg	0.827	0.83%
K 766.490	36637.5	90270	ug/L	561.4	3655	mg/kg	22.7	0.62%
Mg 285.213	406384.5	66980	ug/L	968.1	2712	mg/kg	39.2	1.45%
Mn 257.610	8079.6	650.8	ug/L	0.71	26.35	mg/kg	0.029	0.11%
Mo 202.031	22958.6	476.2	ug/L	0.34	19.28	mg/kg	0.014	0.07%
Na 589.592	161766.4	120800	ug/L	1265.6	4890	mg/kg	51.2	1.05%
Ni 231.604	34157.5	490.6	ug/L	5.30	19.86	mg/kg	0.215	1.08%
P 213.617	350362.9	46290	ug/L	421.9	1874	mg/kg	17.1	0.91%
Pb 220.353	7667.8	470.7	ug/L	0.43	19.06	mg/kg	0.017	0.09%
Sb 206.836	3085.0	424.8	ug/L	1.81	17.20	mg/kg	0.073	0.43%
Se 196.026	2741.8	459.0	ug/L	0.51	18.58	mg/kg	0.021	0.11%
Sn 189.927	3896.1	489.2	ug/L	4.15	19.81	mg/kg	0.168	0.85%
Sr 421.552	51744.0	1530	ug/L	15.3	61.95	mg/kg	0.620	1.00%
Ti 337.279	7035.9	472.1	ug/L	0.42	19.11	mg/kg	0.017	0.09%
Tl 190.801	3390.8	469.7	ug/L	2.19	19.01	mg/kg	0.089	0.47%
V 292.402	126480.2	487.7	ug/L	2.76	19.74	mg/kg	0.112	0.57%
Zn 206.200	145634.0	1542	ug/L	12.9	62.44	mg/kg	0.522	0.84%

Reprocessing Begun
Logged In Analyst: chemist_metals Technique: ICP Continuous

Results Data Set (original): 130109A6010X
Results Library (original): C:\PE\chemist\RESULTS\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Sequence No.: 1 Autosampler Location: 1
Sample ID: CalBlk 130109RJS I:PB O:R Date Collected: 01/09/13 1:50:43 PM
Analyst: Data Type: Reprocessed on 01/10/13 3:53:03 PM
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CalBlk 130109RJS I:PB O:R

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	-188.0	87.11	46.33%	[0.00]	ug/L
Al 308.215	60.6	4.99	8.22%	[0.00]	ug/L
As 188.979	-0.4	3.39	770.32%	[0.00]	ug/L
B	1.7	1.78	103.19%	[0.00]	ug/L
Ba 233.527	112.5	6.63	5.89%	[0.00]	ug/L
Be 313.107	2147.1	181.14	8.44%	[0.00]	ug/L
Ca 315.887	-0.2	3.29	>999.9%	[0.00]	ug/L
Cd 214.440	461.0	13.34	2.89%	[0.00]	ug/L
Co 228.616	50.9	16.93	33.30%	[0.00]	ug/L
Cr 267.716	657.5	12.25	1.86%	[0.00]	ug/L
Cu 327.393	104.8	83.65	79.79%	[0.00]	ug/L
Fe 273.955	254.3	1.54	0.60%	[0.00]	ug/L
K 766.490	66.9	15.95	23.86%	[0.00]	ug/L
Mg 285.213	-25.8	3.83	14.81%	[0.00]	ug/L
Mn 257.610	-4.4	6.64	151.47%	[0.00]	ug/L
Mo 202.031	174.5	10.09	5.78%	[0.00]	ug/L
Na 589.592	-9.6	4.88	50.65%	[0.00]	ug/L
Ni 231.604	-188.1	11.29	6.00%	[0.00]	ug/L
P 213.617	54.0	2.11	3.91%	[0.00]	ug/L
Pb 220.353	-37.5	8.08	21.54%	[0.00]	ug/L
Sb 206.836	-2.2	4.59	204.25%	[0.00]	ug/L
Se 196.026	-21.9	4.98	22.79%	[0.00]	ug/L
Sn 189.927	-7.3	2.60	35.83%	[0.00]	ug/L
Sr 421.552	70.2	11.48	16.36%	[0.00]	ug/L
Ti 337.279	-111.6	7.88	7.06%	[0.00]	ug/L
Tl 190.801	-9.5	3.62	38.13%	[0.00]	ug/L
V 292.402	-778.1	80.06	10.29%	[0.00]	ug/L
Zn 206.200	-346.6	14.29	4.12%	[0.00]	ug/L

Sequence No.: 2
Sample ID: STD 1 130109RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 01/09/13 1:55:57 PM
Data Type: Reprocessed on 01/10/13 3:53:04 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 1 130109RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	223.9	63.94	28.56%	[1.00]	ug/L
Al 308.215	34.7	2.11	6.09%	[100.00]	ug/L
As 188.979	22.6	2.37	10.51%	[3.50]	ug/L
B	47.4	1.16	2.45%	[50.00]	ug/L
Ba 233.527	1030.8	10.16	0.99%	[5.00]	ug/L
Be 313.107	14945.0	155.37	1.04%	[2.00]	ug/L
Ca 315.887	269.0	5.50	2.05%	[100.00]	ug/L
Cd 214.440	2297.6	27.09	1.18%	[5.00]	ug/L
Co 228.616	438.6	19.95	4.55%	[5.00]	ug/L
Cr 267.716	901.4	19.13	2.12%	[5.00]	ug/L
Cu 327.393	449.4	11.70	2.60%	[5.00]	ug/L
Fe 273.955	1703.2	26.20	1.54%	[50.00]	ug/L
K 766.490	273.3	9.71	3.55%	[1000.00]	ug/L
Mg 285.213	331.8	3.13	0.94%	[50]	ug/L
Mn 257.610	66.3	4.02	6.07%	[5.00]	ug/L
Mo 202.031	259.9	24.11	9.28%	[5.00]	ug/L
Na 589.592	926.7	12.58	1.36%	[1000.00]	ug/L
Ni 231.604	441.6	19.05	4.31%	[5.00]	ug/L
P 213.617	206.8	3.90	1.89%	[25.00]	ug/L
Pb 220.353	45.9	7.18	15.64%	[3.00]	ug/L
Sb 206.836	39.1	1.18	3.02%	[5.00]	ug/L
Se 196.026	40.0	9.10	22.74%	[5.00]	ug/L
Sn 189.927	51.1	3.39	6.64%	[5.00]	ug/L
Sr 421.552	245.6	4.26	1.73%	[5.00]	ug/L
Ti 337.279	83.8	2.90	3.45%	[5.00]	ug/L
Tl 190.801	38.7	4.67	12.07%	[5.00]	ug/L
V 292.402	1426.2	144.18	10.11%	[5.00]	ug/L
Zn 206.200	2157.1	24.31	1.13%	[20.00]	ug/L

Sequence No.: 3
Sample ID: STD 2 130109RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 01/09/13 2:00:15 PM
Data Type: Reprocessed on 01/10/13 3:53:05 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 2 130109RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	70336.0	388.05	0.55%	[500.0]	ug/L
Al 308.215	8617.5	26.87	0.31%	[20000.00]	ug/L
As 188.979	5662.5	41.91	0.74%	[1000.00]	ug/L
B	907.2	5.90	0.65%	[1000.00]	ug/L
Ba 233.527	187159.4	1554.30	0.83%	[1000.00]	ug/L
Be 313.107	6987975.5	28971.62	0.41%	[1000.00]	ug/L
Ca 315.887	185823.9	2181.25	1.17%	[50000]	ug/L
Cd 214.440	389437.3	2483.24	0.64%	[1000.00]	ug/L
Co 228.616	80563.1	520.54	0.65%	[1000.00]	ug/L
Cr 267.716	156707.1	1276.66	0.81%	[1000.00]	ug/L
Cu 327.393	93874.6	777.31	0.83%	[1000.00]	ug/L
Fe 273.955	580907.0	4135.90	0.71%	[20000]	ug/L
K 766.490	7585.6	50.20	0.66%	[20000]	ug/L
Mg 285.213	304607.9	2947.97	0.97%	[50000]	ug/L
Mn 257.610	12706.1	25.90	0.20%	[1000.00]	ug/L
Mo 202.031	50214.0	95.87	0.19%	[1000.00]	ug/L
Na 589.592	31362.8	210.39	0.67%	[25000]	ug/L
Ni 231.604	71703.5	454.01	0.63%	[1000.00]	ug/L
P 213.617	39157.2	35.17	0.09%	[5000]	ug/L
Pb 220.353	16576.3	73.84	0.45%	[1000.00]	ug/L
Sb 206.836	7261.0	13.11	0.18%	[1000.00]	ug/L
Se 196.026	5975.7	36.98	0.62%	[1000.00]	ug/L
Sn 189.927	8062.6	64.66	0.80%	[1000.00]	ug/L
Sr 421.552	35455.8	569.60	1.61%	[1000.00]	ug/L
Ti 337.279	15162.0	6.13	0.04%	[1000.00]	ug/L
Tl 190.801	7284.2	23.00	0.32%	[1000.00]	ug/L
V 292.402	269484.3	1822.01	0.68%	[1000.00]	ug/L
Zn 206.200	98470.0	767.34	0.78%	[1000.00]	ug/L

Sequence No.: 4
Sample ID: STD 3 130109RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 01/09/13 2:03:53 PM
Data Type: Reprocessed on 01/10/13 3:53:06 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: STD 3 130109RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 338.289	139630.0	2335.06	1.67%	[1000.00]	ug/L
Al 308.215	16948.7	109.94	0.65%	[40000.00]	ug/L
As 188.979	11295.0	80.91	0.72%	[2000.00]	ug/L
B	1784.3	19.33	1.08%	[2000.00]	ug/L
Ba 233.527	363765.4	4994.38	1.37%	[2000.00]	ug/L
Be 313.107	13637720.3	113237.00	0.83%	[2000.00]	ug/L
Ca 315.887	371013.4	2159.51	0.58%	[100000.0]	ug/L
Cd 214.440	744422.7	9446.51	1.27%	[2000.00]	ug/L
Co 228.616	156324.9	2204.77	1.41%	[2000.00]	ug/L
Cr 267.716	303390.2	3754.62	1.24%	[2000.00]	ug/L
Cu 327.393	186883.7	1991.58	1.07%	[2000.00]	ug/L
Fe 273.955	1123761.9	14944.56	1.33%	[40000]	ug/L
K 766.490	16505.4	138.31	0.84%	[40000]	ug/L
Mg 285.213	606130.4	3276.29	0.54%	[100000]	ug/L
Mn 257.610	24540.5	143.68	0.59%	[2000.00]	ug/L
Mo 202.031	95583.8	1308.66	1.37%	[2000.00]	ug/L
Na 589.592	68003.2	172.84	0.25%	[50000]	ug/L
Ni 231.604	137776.0	1657.04	1.20%	[2000.00]	ug/L
P 213.617	75035.9	986.46	1.31%	[10000]	ug/L
Pb 220.353	32437.8	333.24	1.03%	[2000.00]	ug/L
Sb 206.836	14523.2	75.49	0.52%	[2000.00]	ug/L
Se 196.026	11782.9	84.86	0.72%	[2000.00]	ug/L
Sn 189.927	15878.5	245.00	1.54%	[2000.00]	ug/L
Sr 421.552	66802.6	423.90	0.63%	[2000.00]	ug/L
Ti 337.279	29570.7	174.95	0.59%	[2000.00]	ug/L
Tl 190.801	14406.8	73.86	0.51%	[2000.00]	ug/L
V 292.402	527068.7	6950.78	1.32%	[2000.00]	ug/L
Zn 206.200	187956.8	2147.18	1.14%	[2000.00]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 338.289	3	Lin Thru 0	0.0	139.8	0.00000	0.999995	
Al 308.215	3	Lin Thru 0	0.0	0.4251	0.00000	0.999977	
As 188.979	3	Lin Thru 0	0.0	5.650	0.00000	0.999999	
B	3	Lin Thru 0	0.0	0.8952	0.00000	0.999977	
Ba 233.527	3	Lin Thru 0	0.0	182.9	0.00000	0.999933	
Be 313.107	3	Lin Thru 0	0.0	6853	0.00000	0.999951	
Ca 315.887	3	Lin Thru 0	0.0	3.711	0.00000	1.000000	
Cd 214.440	3	Lin Thru 0	0.0	375.7	0.00000	0.999832	
Co 228.616	3	Lin Thru 0	0.0	78.64	0.00000	0.999925	
Cr 267.716	3	Lin Thru 0	0.0	152.7	0.00000	0.999914	
Cu 327.393	3	Lin Thru 0	0.0	93.53	0.00000	0.999998	
Fe 273.955	3	Lin Thru 0	0.0	28.28	0.00000	0.999909	
K 766.490	3	Lin Thru 0	0.0	0.4059	0.00000	0.999434	
Mg 285.213	3	Lin Thru 0	0.0	6.067	0.00000	0.999998	
Mn 257.610	3	Lin Thru 0	0.0	12.36	0.00000	0.999900	
Mo 202.031	3	Lin Thru 0	0.0	48.28	0.00000	0.999799	
Na 589.592	3	Lin Thru 0	0.0	1.339	0.00000	0.999488	
Ni 231.604	3	Lin Thru 0	0.0	69.45	0.00000	0.999868	
P 213.617	3	Lin Thru 0	0.0	7.569	0.00000	0.999850	
Pb 220.353	3	Lin Thru 0	0.0	16.29	0.00000	0.999961	
Sb 206.836	3	Lin Thru 0	0.0	7.262	0.00000	1.000000	
Se 196.026	3	Lin Thru 0	0.0	5.908	0.00000	0.999983	
Sn 189.927	3	Lin Thru 0	0.0	7.964	0.00000	0.999981	
Sr 421.552	3	Lin Thru 0	0.0	33.81	0.00000	0.999704	
Ti 337.279	3	Lin Thru 0	0.0	14.86	0.00000	0.999949	
Tl 190.801	3	Lin Thru 0	0.0	7.220	0.00000	0.999990	

V 292.402	3	Lin Thru 0	0.0	264.7	0.00000	0.999960
Zn 206.200	3	Lin Thru 0	0.0	94.88	0.00000	0.999820

Sequence No.: 5
Sample ID: ICV 130109RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 01/09/13 2:07:37 PM
Data Type: Reprocessed on 01/10/13 3:53:07 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV 130109RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	68497.1	489.8	ug/L	5.74	489.8	ug/L	5.74	1.17%
QC value within limits for Ag 338.289 Recovery = 97.97%								
Al 308.215	10774.6	25350	ug/L	67.4	25350	ug/L	67.4	0.27%
QC value within limits for Al 308.215 Recovery = 101.41%								
As 188.979	5369.8	950.3	ug/L	9.30	950.3	ug/L	9.30	0.98%
QC value within limits for As 188.979 Recovery = 95.03%								
B	915.4	1108	ug/L	8.5	1108	ug/L	8.5	0.77%
QC value greater than the upper limit for B Recovery = 110.77%								
Ba 233.527	177197.9	954.9	ug/L	5.50	954.9	ug/L	5.50	0.58%
QC value within limits for Ba 233.527 Recovery = 95.49%								
Be 313.107	6903514.4	1007	ug/L	5.4	1007	ug/L	5.4	0.54%
QC value within limits for Be 313.107 Recovery = 100.74%								
Ca 315.887	93407.8	25160	ug/L	232.4	25160	ug/L	232.4	0.92%
QC value within limits for Ca 315.887 Recovery = 100.63%								
Cd 214.440	392453.5	1044	ug/L	4.7	1044	ug/L	4.7	0.45%
QC value within limits for Cd 214.440 Recovery = 104.41%								
Co 228.616	76721.6	974.9	ug/L	4.10	974.9	ug/L	4.10	0.42%
QC value within limits for Co 228.616 Recovery = 97.49%								
Cr 267.716	153476.5	1006	ug/L	5.6	1006	ug/L	5.6	0.56%
QC value within limits for Cr 267.716 Recovery = 100.61%								
Cu 327.393	90316.6	965.7	ug/L	11.00	965.7	ug/L	11.00	1.14%
QC value within limits for Cu 327.393 Recovery = 96.57%								
Fe 273.955	706383.1	24890	ug/L	137.9	24890	ug/L	137.9	0.55%
QC value within limits for Fe 273.955 Recovery = 99.58%								
K 766.490	7821.7	19260	ug/L	79.8	19260	ug/L	79.8	0.41%
QC value less than the lower limit for K 766.490 Recovery = 77.03%								
Mg 285.213	156806.5	25870	ug/L	275.3	25870	ug/L	275.3	1.06%
QC value within limits for Mg 285.213 Recovery = 103.49%								
Mn 257.610	13154.2	1065	ug/L	2.4	1065	ug/L	2.4	0.23%
QC value within limits for Mn 257.610 Recovery = 106.48%								
Mo 202.031	47293.0	982.2	ug/L	8.79	982.2	ug/L	8.79	0.89%
QC value within limits for Mo 202.031 Recovery = 98.22%								
Na 589.592	28244.7	21080	ug/L	198.1	21080	ug/L	198.1	0.94%
QC value less than the lower limit for Na 589.592 Recovery = 84.32%								
Ni 231.604	71690.1	1030	ug/L	4.2	1030	ug/L	4.2	0.41%
QC value within limits for Ni 231.604 Recovery = 103.03%								
P 213.617	36679.9	4846	ug/L	36.3	4846	ug/L	36.3	0.75%
QC value within limits for P 213.617 Recovery = 96.92%								
Pb 220.353	16402.3	1007	ug/L	10.3	1007	ug/L	10.3	1.02%
QC value within limits for Pb 220.353 Recovery = 100.69%								
Sb 206.836	6916.0	952.4	ug/L	5.36	952.4	ug/L	5.36	0.56%
QC value within limits for Sb 206.836 Recovery = 95.24%								
Se 196.026	5760.7	986.2	ug/L	21.15	986.2	ug/L	21.15	2.15%
QC value within limits for Se 196.026 Recovery = 98.62%								
Sn 189.927	3951.5	496.2	ug/L	17.06	496.2	ug/L	17.06	3.44%
QC value within limits for Sn 189.927 Recovery = 99.24%								
Sr 421.552	26071.1	770.8	ug/L	6.89	770.8	ug/L	6.89	0.89%
QC value less than the lower limit for Sr 421.552 Recovery = 77.08%								
Ti 337.279	13046.9	877.5	ug/L	3.40	877.5	ug/L	3.40	0.39%
QC value less than the lower limit for Ti 337.279 Recovery = 87.75%								
Tl 190.801	7188.1	995.7	ug/L	10.89	995.7	ug/L	10.89	1.09%
QC value within limits for Tl 190.801 Recovery = 99.57%								
V 292.402	257560.4	989.4	ug/L	6.13	989.4	ug/L	6.13	0.62%
QC value within limits for V 292.402 Recovery = 98.94%								
Zn 206.200	96309.2	1024	ug/L	4.3	1024	ug/L	4.3	0.42%
QC value within limits for Zn 206.200 Recovery = 102.43%								

QC Failed. Continue with analysis.

Sequence No.: 6
Sample ID: ICB 130109RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 01/09/13 2:12:32 PM
Data Type: Reprocessed on 01/10/13 3:53:08 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB 130109RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	59.1	0.423	ug/L	0.9938	0.423	ug/L	0.9938	235.14%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	-0.1	-0.233	ug/L	13.5386	-0.233	ug/L	13.5386	>999.9%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	-1.1	-0.198	ug/L	1.1375	-0.198	ug/L	1.1375	573.97%
QC value within limits for As 188.979 Recovery = Not calculated								
B	8.4	9.392	ug/L	7.5726	9.392	ug/L	7.5726	80.63%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	24.5	0.134	ug/L	0.0233	0.134	ug/L	0.0233	17.41%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-220.7	-0.032	ug/L	0.0177	-0.032	ug/L	0.0177	54.94%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	-28.8	-7.745	ug/L	2.4071	-7.745	ug/L	2.4071	31.08%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-10.6	-0.028	ug/L	0.0218	-0.028	ug/L	0.0218	78.45%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	17.3	0.221	ug/L	0.1230	0.221	ug/L	0.1230	55.69%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	12.4	0.082	ug/L	0.0743	0.082	ug/L	0.0743	90.54%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	92.4	0.988	ug/L	0.6989	0.988	ug/L	0.6989	70.72%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	21.4	0.733	ug/L	0.6573	0.733	ug/L	0.6573	89.68%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-35.8	-88.14	ug/L	23.542	-88.14	ug/L	23.542	26.71%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	-4.2	-0.691	ug/L	1.1642	-0.691	ug/L	1.1642	168.38%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-6.6	-0.533	ug/L	0.3293	-0.533	ug/L	0.3293	61.78%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	30.1	0.624	ug/L	0.1419	0.624	ug/L	0.1419	22.74%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	90.9	67.92	ug/L	10.035	67.92	ug/L	10.035	14.77%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	4.5	0.064	ug/L	0.2144	0.064	ug/L	0.2144	336.42%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-2.0	-0.259	ug/L	0.6925	-0.259	ug/L	0.6925	267.54%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	0.9	0.057	ug/L	0.8465	0.057	ug/L	0.8465	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.3	0.454	ug/L	0.4059	0.454	ug/L	0.4059	89.37%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-1.7	-0.290	ug/L	1.9846	-0.290	ug/L	1.9846	685.41%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	20.6	2.581	ug/L	0.9676	2.581	ug/L	0.9676	37.48%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	-10.3	-0.304	ug/L	0.2078	-0.304	ug/L	0.2078	68.44%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	2.6	0.178	ug/L	0.2299	0.178	ug/L	0.2299	129.10%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	14.0	1.944	ug/L	0.5908	1.944	ug/L	0.5908	30.39%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	91.4	0.354	ug/L	0.3453	0.354	ug/L	0.3453	97.47%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-13.5	-0.141	ug/L	0.0671	-0.141	ug/L	0.0671	47.53%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICSA 130109RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 01/09/13 2:21:07 PM
Data Type: Reprocessed on 01/10/13 3:53:10 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA 130109RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	8.4	0.060	ug/L	0.0774	0.060	ug/L	0.0774	129.52%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	87062.4	204800	ug/L	1621.9	204800	ug/L	1621.9	0.79%
QC value within limits for Al 308.215 Recovery = 102.40%								
As 188.979	-3.0	-0.536	ug/L	1.6170	-0.536	ug/L	1.6170	301.73%
QC value within limits for As 188.979 Recovery = Not calculated								
B	-551.0	-0.375	ug/L	11.4655	-0.375	ug/L	11.4655	>999.9%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	18955.9	0.066	ug/L	1.9565	0.066	ug/L	1.9565	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-611.8	-0.089	ug/L	0.0124	-0.089	ug/L	0.0124	13.84%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	738307.2	198900	ug/L	1542.8	198900	ug/L	1542.8	0.78%
QC value within limits for Ca 315.887 Recovery = 99.45%								
Cd 214.440	3531.3	0.336	ug/L	0.0852	0.336	ug/L	0.0852	25.31%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	314.4	-0.124	ug/L	0.3392	-0.124	ug/L	0.3392	273.34%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-86.9	-0.097	ug/L	0.0973	-0.097	ug/L	0.0973	100.10%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-183.6	-1.964	ug/L	0.0736	-1.964	ug/L	0.0736	3.75%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	5053908.8	178700	ug/L	2412.8	178700	ug/L	2412.8	1.35%
QC value within limits for Fe 273.955 Recovery = 89.33%								
K 766.490	-41.9	-214.6	ug/L	16.64	-214.6	ug/L	16.64	7.76%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	1208043.3	199300	ug/L	1784.8	199300	ug/L	1784.8	0.90%
QC value within limits for Mg 285.213 Recovery = 99.65%								
Mn 257.610	-20.6	-1.194	ug/L	0.5717	-1.194	ug/L	0.5717	47.89%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	-635.1	0.298	ug/L	0.1439	0.298	ug/L	0.1439	48.33%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	81.0	14.58	ug/L	1.560	14.58	ug/L	1.560	10.70%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-36.6	-0.824	ug/L	0.2859	-0.824	ug/L	0.2859	34.68%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-56.8	-7.505	ug/L	1.7959	-7.505	ug/L	1.7959	23.93%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	14.1	0.863	ug/L	0.7902	0.863	ug/L	0.7902	91.54%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	-4.5	-0.623	ug/L	1.2145	-0.623	ug/L	1.2145	194.97%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-536.9	-4.726	ug/L	0.5106	-4.726	ug/L	0.5106	10.80%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-5.0	-0.633	ug/L	0.5952	-0.633	ug/L	0.5952	93.99%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	33.8	-1.200	ug/L	0.3258	-1.200	ug/L	0.3258	27.15%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	37.0	-1.042	ug/L	0.5760	-1.042	ug/L	0.5760	55.28%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	2.9	0.400	ug/L	0.4795	0.400	ug/L	0.4795	119.83%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	11376.9	-1.412	ug/L	0.2875	-1.412	ug/L	0.2875	20.36%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	533.4	-2.914	ug/L	0.1274	-2.914	ug/L	0.1274	4.37%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSAB 130109RJS I:PB O:RJ
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 01/09/13 2:26:39 PM
Data Type: Reprocessed on 01/10/13 3:53:11 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB 130109RJS I:PB O:RJ

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	135139.2	966.4	ug/L	12.98	966.4	ug/L	12.98	1.34%
QC value within limits for Ag 338.289 Recovery = 96.64%								
Al 308.215	89226.8	209900	ug/L	1488.7	209900	ug/L	1488.7	0.71%
QC value within limits for Al 308.215 Recovery = 104.95%								
As 188.979	2499.4	442.3	ug/L	1.50	442.3	ug/L	1.50	0.34%
QC value within limits for As 188.979 Recovery = 88.47%								
B	-561.1	-16.26	ug/L	3.556	-16.26	ug/L	3.556	21.87%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	101361.9	451.4	ug/L	2.18	451.4	ug/L	2.18	0.48%
QC value within limits for Ba 233.527 Recovery = 90.28%								
Be 313.107	3180855.4	464.2	ug/L	3.79	464.2	ug/L	3.79	0.82%
QC value within limits for Be 313.107 Recovery = 92.84%								
Ca 315.887	751071.7	202300	ug/L	1305.2	202300	ug/L	1305.2	0.65%
QC value within limits for Ca 315.887 Recovery = 101.16%								
Cd 214.440	353063.5	931.1	ug/L	4.30	931.1	ug/L	4.30	0.46%
QC value within limits for Cd 214.440 Recovery = 93.11%								
Co 228.616	34964.5	441.3	ug/L	3.07	441.3	ug/L	3.07	0.70%
QC value within limits for Co 228.616 Recovery = 88.26%								
Cr 267.716	70408.9	462.0	ug/L	1.56	462.0	ug/L	1.56	0.34%
QC value within limits for Cr 267.716 Recovery = 92.40%								
Cu 327.393	44924.1	480.3	ug/L	2.88	480.3	ug/L	2.88	0.60%
QC value within limits for Cu 327.393 Recovery = 96.07%								
Fe 273.955	5027304.7	177700	ug/L	1475.0	177700	ug/L	1475.0	0.83%
QC value within limits for Fe 273.955 Recovery = 88.84%								
K 766.490	-35.8	-199.9	ug/L	20.04	-199.9	ug/L	20.04	10.02%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	1231944.2	203200	ug/L	1489.5	203200	ug/L	1489.5	0.73%
QC value within limits for Mg 285.213 Recovery = 101.62%								
Mn 257.610	6191.3	501.3	ug/L	1.94	501.3	ug/L	1.94	0.39%
QC value within limits for Mn 257.610 Recovery = 100.27%								
Mo 202.031	21160.5	452.0	ug/L	0.95	452.0	ug/L	0.95	0.21%
QC value within limits for Mo 202.031 Recovery = 90.40%								
Na 589.592	54.2	-7.656	ug/L	6.3964	-7.656	ug/L	6.3964	83.55%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	63178.5	908.5	ug/L	3.40	908.5	ug/L	3.40	0.37%
QC value within limits for Ni 231.604 Recovery = 90.85%								
P 213.617	-19.9	-2.634	ug/L	1.5238	-2.634	ug/L	1.5238	57.84%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	14885.8	913.8	ug/L	6.18	913.8	ug/L	6.18	0.68%
QC value within limits for Pb 220.353 Recovery = 91.38%								
Sb 206.836	3207.3	441.7	ug/L	0.87	441.7	ug/L	0.87	0.20%
QC value within limits for Sb 206.836 Recovery = 88.34%								
Se 196.026	2245.8	465.4	ug/L	2.95	465.4	ug/L	2.95	0.63%
QC value within limits for Se 196.026 Recovery = 93.07%								
Sn 189.927	-7.0	-0.878	ug/L	0.0426	-0.878	ug/L	0.0426	4.86%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	49.9	-0.738	ug/L	0.3489	-0.738	ug/L	0.3489	47.26%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	38.3	-0.973	ug/L	0.3325	-0.973	ug/L	0.3325	34.18%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	3328.4	461.0	ug/L	2.07	461.0	ug/L	2.07	0.45%
QC value within limits for Tl 190.801 Recovery = 92.21%								
V 292.402	132716.3	467.9	ug/L	2.02	467.9	ug/L	2.02	0.43%
QC value within limits for V 292.402 Recovery = 93.58%								
Zn 206.200	85174.5	894.1	ug/L	2.75	894.1	ug/L	2.75	0.31%
QC value within limits for Zn 206.200 Recovery = 89.41%								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV1 130109RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 01/09/13 2:36:49 PM
Data Type: Reprocessed on 01/10/13 3:53:12 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 130109RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	68560.6	490.3	ug/L	6.65	490.3	ug/L	6.65	1.36%
QC value within limits for Ag 338.289 Recovery = 98.06%								
Al 308.215	10028.1	23600	ug/L	25.4	23600	ug/L	25.4	0.11%
QC value greater than the upper limit for Al 308.215 Recovery = 117.98%								
As 188.979	5462.5	966.7	ug/L	6.16	966.7	ug/L	6.16	0.64%
QC value within limits for As 188.979 Recovery = 96.67%								
B	1078.4	1271	ug/L	6.8	1271	ug/L	6.8	0.54%
QC value greater than the upper limit for B Recovery = 127.06%								
Ba 233.527	182179.2	984.9	ug/L	3.59	984.9	ug/L	3.59	0.36%
QC value within limits for Ba 233.527 Recovery = 98.49%								
Be 313.107	6860018.7	1001	ug/L	3.1	1001	ug/L	3.1	0.31%
QC value within limits for Be 313.107 Recovery = 100.11%								
Ca 315.887	206541.1	55640	ug/L	572.7	55640	ug/L	572.7	1.03%
QC value greater than the upper limit for Ca 315.887 Recovery = 111.28%								
Cd 214.440	380895.9	1014	ug/L	2.8	1014	ug/L	2.8	0.28%
QC value within limits for Cd 214.440 Recovery = 101.36%								
Co 228.616	78372.4	995.7	ug/L	2.42	995.7	ug/L	2.42	0.24%
QC value within limits for Co 228.616 Recovery = 99.57%								
Cr 267.716	152761.9	1001	ug/L	4.0	1001	ug/L	4.0	0.40%
QC value within limits for Cr 267.716 Recovery = 100.11%								
Cu 327.393	90462.5	967.2	ug/L	5.28	967.2	ug/L	5.28	0.55%
QC value within limits for Cu 327.393 Recovery = 96.72%								
Fe 273.955	566273.3	19940	ug/L	68.5	19940	ug/L	68.5	0.34%
QC value within limits for Fe 273.955 Recovery = 99.69%								
K 766.490	6053.0	14890	ug/L	29.5	14890	ug/L	29.5	0.20%
QC value less than the lower limit for K 766.490 Recovery = 74.47%								
Mg 285.213	342645.5	56490	ug/L	512.0	56490	ug/L	512.0	0.91%
QC value greater than the upper limit for Mg 285.213 Recovery = 112.99%								
Mn 257.610	13968.9	1129	ug/L	0.5	1129	ug/L	0.5	0.04%
QC value greater than the upper limit for Mn 257.610 Recovery = 112.90%								
Mo 202.031	48782.0	1013	ug/L	3.0	1013	ug/L	3.0	0.30%
QC value within limits for Mo 202.031 Recovery = 101.25%								
Na 589.592	35454.0	26460	ug/L	347.5	26460	ug/L	347.5	1.31%
QC value within limits for Na 589.592 Recovery = 105.84%								
Ni 231.604	69985.0	1006	ug/L	3.9	1006	ug/L	3.9	0.38%
QC value within limits for Ni 231.604 Recovery = 100.56%								
P 213.617	38122.4	5037	ug/L	16.7	5037	ug/L	16.7	0.33%
QC value within limits for P 213.617 Recovery = 100.73%								
Pb 220.353	16037.2	984.5	ug/L	5.96	984.5	ug/L	5.96	0.61%
QC value within limits for Pb 220.353 Recovery = 98.45%								
Sb 206.836	7041.9	969.8	ug/L	7.21	969.8	ug/L	7.21	0.74%
QC value within limits for Sb 206.836 Recovery = 96.98%								
Se 196.026	5793.4	988.0	ug/L	7.56	988.0	ug/L	7.56	0.77%
QC value within limits for Se 196.026 Recovery = 98.80%								
Sn 189.927	7784.8	977.5	ug/L	13.65	977.5	ug/L	13.65	1.40%
QC value within limits for Sn 189.927 Recovery = 97.75%								
Sr 421.552	32376.7	957.1	ug/L	12.38	957.1	ug/L	12.38	1.29%
QC value within limits for Sr 421.552 Recovery = 95.71%								
Ti 337.279	14475.7	973.2	ug/L	2.36	973.2	ug/L	2.36	0.24%
QC value within limits for Ti 337.279 Recovery = 97.32%								
Tl 190.801	7022.3	972.7	ug/L	5.17	972.7	ug/L	5.17	0.53%
QC value within limits for Tl 190.801 Recovery = 97.27%								
V 292.402	262355.1	1009	ug/L	2.2	1009	ug/L	2.2	0.22%
QC value within limits for V 292.402 Recovery = 100.90%								
Zn 206.200	96276.7	1024	ug/L	4.0	1024	ug/L	4.0	0.39%
QC value within limits for Zn 206.200 Recovery = 102.45%								

QC Failed. Continue with analysis.

Sequence No.: 11
Sample ID: CCB 130109RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 01/09/13 2:44:32 PM
Data Type: Reprocessed on 01/10/13 3:53:13 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 130109RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	104.4	0.746	ug/L	0.6397	0.746	ug/L	0.6397	85.72%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	12.2	28.80	ug/L	8.472	28.80	ug/L	8.472	29.42%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	-0.9	-0.156	ug/L	0.0290	-0.156	ug/L	0.0290	18.56%
QC value within limits for As 188.979 Recovery = Not calculated								
B	8.0	8.924	ug/L	2.0190	8.924	ug/L	2.0190	22.62%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	15.6	0.083	ug/L	0.0305	0.083	ug/L	0.0305	36.61%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-79.8	-0.012	ug/L	0.0179	-0.012	ug/L	0.0179	153.30%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	-63.3	-17.05	ug/L	1.293	-17.05	ug/L	1.293	7.58%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-9.6	-0.025	ug/L	0.0254	-0.025	ug/L	0.0254	99.81%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	5.1	0.067	ug/L	0.0798	0.067	ug/L	0.0798	118.84%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-0.7	-0.004	ug/L	0.1545	-0.004	ug/L	0.1545	>999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-14.5	-0.155	ug/L	0.1557	-0.155	ug/L	0.1557	100.22%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	119.1	4.204	ug/L	1.6094	4.204	ug/L	1.6094	38.28%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-69.0	-169.9	ug/L	7.02	-169.9	ug/L	7.02	4.13%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	-16.3	-2.676	ug/L	0.5382	-2.676	ug/L	0.5382	20.11%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-13.3	-1.076	ug/L	0.1662	-1.076	ug/L	0.1662	15.46%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	12.7	0.264	ug/L	0.2355	0.264	ug/L	0.2355	89.14%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	71.6	53.52	ug/L	11.658	53.52	ug/L	11.658	21.78%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-5.2	-0.075	ug/L	0.0476	-0.075	ug/L	0.0476	63.21%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-1.9	-0.252	ug/L	0.3627	-0.252	ug/L	0.3627	144.10%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	4.4	0.273	ug/L	0.3242	0.273	ug/L	0.3242	118.83%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.8	0.522	ug/L	0.2593	0.522	ug/L	0.2593	49.71%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	8.5	1.437	ug/L	0.6323	1.437	ug/L	0.6323	43.99%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	9.3	1.171	ug/L	0.0909	1.171	ug/L	0.0909	7.76%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	8.3	0.244	ug/L	0.0730	0.244	ug/L	0.0730	29.86%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-8.3	-0.559	ug/L	0.3095	-0.559	ug/L	0.3095	55.34%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	13.1	1.819	ug/L	0.2569	1.819	ug/L	0.2569	14.12%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	35.7	0.138	ug/L	0.5555	0.138	ug/L	0.5555	403.88%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-6.7	-0.071	ug/L	0.1025	-0.071	ug/L	0.1025	143.51%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 17
Sample ID: CCV2 130109RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 01/09/13 3:15:19 PM
Data Type: Reprocessed on 01/10/13 3:53:19 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV2 130109RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	52713.4	377.0	ug/L	1.71	377.0	ug/L	1.71	0.45%
QC value within limits for Ag 338.289 Recovery = 100.52%								
Al 308.215	9047.1	21290	ug/L	50.5	21290	ug/L	50.5	0.24%
QC value greater than the upper limit for Al 308.215 Recovery = 141.92%								
As 188.979	4309.3	762.6	ug/L	4.25	762.6	ug/L	4.25	0.56%
QC value within limits for As 188.979 Recovery = 101.68%								
B	1155.5	1341	ug/L	25.7	1341	ug/L	25.7	1.91%
QC value greater than the upper limit for B Recovery = 178.85%								
Ba 233.527	140303.7	758.5	ug/L	3.83	758.5	ug/L	3.83	0.51%
QC value within limits for Ba 233.527 Recovery = 101.14%								
Be 313.107	5371510.8	783.9	ug/L	10.57	783.9	ug/L	10.57	1.35%
QC value within limits for Be 313.107 Recovery = 104.51%								
Ca 315.887	168963.0	45520	ug/L	355.2	45520	ug/L	355.2	0.78%
QC value greater than the upper limit for Ca 315.887 Recovery = 121.38%								
Cd 214.440	295961.9	787.6	ug/L	5.03	787.6	ug/L	5.03	0.64%
QC value within limits for Cd 214.440 Recovery = 105.01%								
Co 228.616	60831.7	772.9	ug/L	5.67	772.9	ug/L	5.67	0.73%
QC value within limits for Co 228.616 Recovery = 103.05%								
Cr 267.716	117789.6	771.8	ug/L	4.38	771.8	ug/L	4.38	0.57%
QC value within limits for Cr 267.716 Recovery = 102.90%								
Cu 327.393	68967.1	737.4	ug/L	1.96	737.4	ug/L	1.96	0.27%
QC value within limits for Cu 327.393 Recovery = 98.32%								
Fe 273.955	437104.5	15390	ug/L	77.2	15390	ug/L	77.2	0.50%
QC value within limits for Fe 273.955 Recovery = 102.60%								
K 766.490	5390.1	13270	ug/L	48.1	13270	ug/L	48.1	0.36%
QC value less than the lower limit for K 766.490 Recovery = 88.46%								
Mg 285.213	285498.7	47070	ug/L	327.3	47070	ug/L	327.3	0.70%
QC value greater than the upper limit for Mg 285.213 Recovery = 125.52%								
Mn 257.610	12078.8	976.2	ug/L	2.30	976.2	ug/L	2.30	0.24%
QC value greater than the upper limit for Mn 257.610 Recovery = 130.16%								
Mo 202.031	37010.2	768.2	ug/L	4.12	768.2	ug/L	4.12	0.54%
QC value within limits for Mo 202.031 Recovery = 102.43%								
Na 589.592	42619.0	31820	ug/L	184.5	31820	ug/L	184.5	0.58%
QC value greater than the upper limit for Na 589.592 Recovery = 169.69%								
Ni 231.604	54453.8	782.4	ug/L	4.70	782.4	ug/L	4.70	0.60%
QC value within limits for Ni 231.604 Recovery = 104.32%								
P 213.617	28767.6	3801	ug/L	20.4	3801	ug/L	20.4	0.54%
QC value within limits for P 213.617 Recovery = 101.35%								
Pb 220.353	12692.1	779.1	ug/L	0.78	779.1	ug/L	0.78	0.10%
QC value within limits for Pb 220.353 Recovery = 103.88%								
Sb 206.836	5524.4	760.8	ug/L	1.57	760.8	ug/L	1.57	0.21%
QC value within limits for Sb 206.836 Recovery = 101.44%								
Se 196.026	4543.4	774.3	ug/L	1.38	774.3	ug/L	1.38	0.18%
QC value within limits for Se 196.026 Recovery = 103.24%								
Sn 189.927	6160.6	773.6	ug/L	2.38	773.6	ug/L	2.38	0.31%
QC value within limits for Sn 189.927 Recovery = 103.14%								
Sr 421.552	57444.9	1699	ug/L	8.5	1699	ug/L	8.5	0.50%
QC value greater than the upper limit for Sr 421.552 Recovery = 226.48%								
Ti 337.279	10919.0	734.0	ug/L	0.97	734.0	ug/L	0.97	0.13%
QC value within limits for Ti 337.279 Recovery = 97.87%								
Tl 190.801	5497.0	761.4	ug/L	1.47	761.4	ug/L	1.47	0.19%
QC value within limits for Tl 190.801 Recovery = 101.52%								
V 292.402	201657.6	775.4	ug/L	4.14	775.4	ug/L	4.14	0.53%
QC value within limits for V 292.402 Recovery = 103.39%								
Zn 206.200	74857.1	796.7	ug/L	4.02	796.7	ug/L	4.02	0.50%
QC value within limits for Zn 206.200 Recovery = 106.23%								

QC Failed. Continue with analysis.

Sequence No.: 18
Sample ID: CCB 130109RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 01/09/13 3:21:08 PM
Data Type: Reprocessed on 01/10/13 3:53:20 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 130109RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	65.1	0.465	ug/L	0.8525	0.465	ug/L	0.8525	183.16%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	9.9	23.28	ug/L	17.378	23.28	ug/L	17.378	74.64%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	5.5	0.966	ug/L	0.4851	0.966	ug/L	0.4851	50.23%
QC value within limits for As 188.979 Recovery = Not calculated								
B	67.1	74.93	ug/L	8.514	74.93	ug/L	8.514	11.36%
QC value greater than the upper limit for B Recovery = Not calculated								
Ba 233.527	7.6	0.041	ug/L	0.1284	0.041	ug/L	0.1284	311.18%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-294.6	-0.043	ug/L	0.0140	-0.043	ug/L	0.0140	32.63%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	-240.7	-64.86	ug/L	2.953	-64.86	ug/L	2.953	4.55%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	4.7	0.013	ug/L	0.0185	0.013	ug/L	0.0185	142.71%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	11.6	0.150	ug/L	0.2297	0.150	ug/L	0.2297	152.77%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	9.7	0.065	ug/L	0.0753	0.065	ug/L	0.0753	115.44%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-64.9	-0.694	ug/L	0.3150	-0.694	ug/L	0.3150	45.37%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	20.2	0.711	ug/L	0.5932	0.711	ug/L	0.5932	83.41%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-84.6	-208.4	ug/L	45.99	-208.4	ug/L	45.99	22.07%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	-23.9	-3.930	ug/L	0.5735	-3.930	ug/L	0.5735	14.59%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-20.7	-1.671	ug/L	0.4430	-1.671	ug/L	0.4430	26.52%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	14.2	0.294	ug/L	0.1182	0.294	ug/L	0.1182	40.16%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	233.9	174.8	ug/L	8.81	174.8	ug/L	8.81	5.04%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	-15.6	-0.226	ug/L	0.1466	-0.226	ug/L	0.1466	64.77%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	-3.4	-0.453	ug/L	0.5081	-0.453	ug/L	0.5081	112.22%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	8.3	0.508	ug/L	0.5439	0.508	ug/L	0.5439	107.02%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.1	0.433	ug/L	0.8854	0.433	ug/L	0.8854	204.27%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-2.7	-0.458	ug/L	0.1773	-0.458	ug/L	0.1773	38.73%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	12.5	1.568	ug/L	0.8149	1.568	ug/L	0.8149	51.98%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	56.3	1.664	ug/L	0.3436	1.664	ug/L	0.3436	20.65%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-12.4	-0.835	ug/L	0.2181	-0.835	ug/L	0.2181	26.12%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	30.5	4.225	ug/L	0.4589	4.225	ug/L	0.4589	10.86%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated								
V 292.402	19.3	0.078	ug/L	0.1988	0.078	ug/L	0.1988	256.07%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-174.5	-1.837	ug/L	0.0669	-1.837	ug/L	0.0669	3.64%
QC value within limits for Zn 206.200 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 28
Sample ID: CCV1 130109RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 01/09/13 4:17:28 PM
Data Type: Reprocessed on 01/10/13 3:53:30 PM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV1 130109RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	69029.1	493.6	ug/L	2.60	493.6	ug/L	2.60	0.53%
QC value within limits for Ag 338.289 Recovery = 98.73%								
Al 308.215	12587.6	29620	ug/L	82.3	29620	ug/L	82.3	0.28%
QC value greater than the upper limit for Al 308.215 Recovery = 148.09%								
As 188.979	5516.9	976.4	ug/L	7.87	976.4	ug/L	7.87	0.81%
QC value within limits for As 188.979 Recovery = 97.64%								
B	1317.1	1536	ug/L	9.3	1536	ug/L	9.3	0.61%
QC value greater than the upper limit for B Recovery = 153.61%								
Ba 233.527	181730.7	982.5	ug/L	3.10	982.5	ug/L	3.10	0.32%
QC value within limits for Ba 233.527 Recovery = 98.25%								
Be 313.107	6896478.4	1006	ug/L	13.5	1006	ug/L	13.5	1.34%
QC value within limits for Be 313.107 Recovery = 100.64%								
Ca 315.887	223239.0	60140	ug/L	727.5	60140	ug/L	727.5	1.21%
QC value greater than the upper limit for Ca 315.887 Recovery = 120.27%								
Cd 214.440	377524.6	1005	ug/L	3.5	1005	ug/L	3.5	0.34%
QC value within limits for Cd 214.440 Recovery = 100.47%								
Co 228.616	78742.8	1000	ug/L	5.1	1000	ug/L	5.1	0.51%
QC value within limits for Co 228.616 Recovery = 100.04%								
Cr 267.716	152581.1	999.7	ug/L	2.18	999.7	ug/L	2.18	0.22%
QC value within limits for Cr 267.716 Recovery = 99.97%								
Cu 327.393	92444.2	988.4	ug/L	5.87	988.4	ug/L	5.87	0.59%
QC value within limits for Cu 327.393 Recovery = 98.84%								
Fe 273.955	562130.4	19790	ug/L	53.2	19790	ug/L	53.2	0.27%
QC value within limits for Fe 273.955 Recovery = 98.95%								
K 766.490	9409.4	23170	ug/L	180.6	23170	ug/L	180.6	0.78%
QC value greater than the upper limit for K 766.490 Recovery = 115.86%								
Mg 285.213	385086.8	63490	ug/L	707.2	63490	ug/L	707.2	1.11%
QC value greater than the upper limit for Mg 285.213 Recovery = 126.98%								
Mn 257.610	16470.5	1331	ug/L	3.9	1331	ug/L	3.9	0.29%
QC value greater than the upper limit for Mn 257.610 Recovery = 133.11%								
Mo 202.031	48899.9	1015	ug/L	4.6	1015	ug/L	4.6	0.45%
QC value within limits for Mo 202.031 Recovery = 101.50%								
Na 589.592	74787.4	55840	ug/L	709.0	55840	ug/L	709.0	1.27%
QC value greater than the upper limit for Na 589.592 Recovery = 223.34%								
Ni 231.604	69819.6	1003	ug/L	3.2	1003	ug/L	3.2	0.32%
QC value within limits for Ni 231.604 Recovery = 100.31%								
P 213.617	38229.9	5051	ug/L	34.4	5051	ug/L	34.4	0.68%
QC value within limits for P 213.617 Recovery = 101.01%								
Pb 220.353	16131.7	990.3	ug/L	10.14	990.3	ug/L	10.14	1.02%
QC value within limits for Pb 220.353 Recovery = 99.03%								
Sb 206.836	7086.7	975.9	ug/L	2.55	975.9	ug/L	2.55	0.26%
QC value within limits for Sb 206.836 Recovery = 97.59%								
Se 196.026	5869.2	999.8	ug/L	8.08	999.8	ug/L	8.08	0.81%
QC value within limits for Se 196.026 Recovery = 99.98%								
Sn 189.927	7857.9	986.7	ug/L	7.82	986.7	ug/L	7.82	0.79%
QC value within limits for Sn 189.927 Recovery = 98.67%								
Sr 421.552	114225.7	3378	ug/L	41.0	3378	ug/L	41.0	1.22%
QC value greater than the upper limit for Sr 421.552 Recovery = 337.78%								
Ti 337.279	14560.9	978.8	ug/L	5.45	978.8	ug/L	5.45	0.56%
QC value within limits for Ti 337.279 Recovery = 97.88%								
Tl 190.801	7059.6	977.9	ug/L	8.85	977.9	ug/L	8.85	0.91%
QC value within limits for Tl 190.801 Recovery = 97.79%								
V 292.402	262849.0	1011	ug/L	3.6	1011	ug/L	3.6	0.35%
QC value within limits for V 292.402 Recovery = 101.08%								
Zn 206.200	95429.8	1016	ug/L	4.2	1016	ug/L	4.2	0.41%
QC value within limits for Zn 206.200 Recovery = 101.61%								

QC Failed. Continue with analysis.

Sequence No.: 29
Sample ID: CCB 130109RJS I:PB O:RJS
Analyst:
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 01/09/13 4:24:27 PM
Data Type: Reprocessed on 01/10/13 3:53:32 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB 130109RJS I:PB O:RJS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	32.6	0.233	ug/L	0.7613	0.233	ug/L	0.7613	326.16%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215	7.6	17.87	ug/L	23.842	17.87	ug/L	23.842	133.45%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	7.4	1.302	ug/L	0.2921	1.302	ug/L	0.2921	22.44%
QC value within limits for As 188.979 Recovery = Not calculated								
B	11.4	12.72	ug/L	4.904	12.72	ug/L	4.904	38.54%
QC value within limits for B Recovery = Not calculated								
Ba 233.527	7.7	0.041	ug/L	0.0780	0.041	ug/L	0.0780	189.93%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	-132.7	-0.019	ug/L	0.0048	-0.019	ug/L	0.0048	24.95%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887	-97.8	-26.33	ug/L	3.869	-26.33	ug/L	3.869	14.69%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 214.440	-0.3	-0.001	ug/L	0.0252	-0.001	ug/L	0.0252	>999.9%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	11.7	0.152	ug/L	0.1190	0.152	ug/L	0.1190	78.19%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-16.5	-0.106	ug/L	0.1551	-0.106	ug/L	0.1551	146.45%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393	-55.5	-0.593	ug/L	0.6613	-0.593	ug/L	0.6613	111.50%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955	60.0	2.118	ug/L	1.1177	2.118	ug/L	1.1177	52.78%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-126.3	-311.1	ug/L	35.56	-311.1	ug/L	35.56	11.43%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213	-31.8	-5.225	ug/L	1.0566	-5.225	ug/L	1.0566	20.22%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610	-27.5	-2.221	ug/L	0.0712	-2.221	ug/L	0.0712	3.20%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	21.5	0.446	ug/L	0.0511	0.446	ug/L	0.0511	11.47%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	228.0	170.5	ug/L	14.86	170.5	ug/L	14.86	8.72%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604	2.8	0.040	ug/L	0.3244	0.040	ug/L	0.3244	806.07%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 213.617	11.8	1.559	ug/L	0.4742	1.559	ug/L	0.4742	30.42%
QC value within limits for P 213.617 Recovery = Not calculated								
Pb 220.353	-5.9	-0.364	ug/L	0.3084	-0.364	ug/L	0.3084	84.80%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	3.9	0.537	ug/L	0.7760	0.537	ug/L	0.7760	144.54%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	5.9	1.010	ug/L	3.1756	1.010	ug/L	3.1756	314.55%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	4.9	0.620	ug/L	0.2054	0.620	ug/L	0.2054	33.12%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552	116.2	3.435	ug/L	0.3367	3.435	ug/L	0.3367	9.80%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 337.279	-13.7	-0.918	ug/L	0.3137	-0.918	ug/L	0.3137	34.18%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801	12.4	1.711	ug/L	0.7316	1.711	ug/L	0.7316	42.75%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402	34.5	0.135	ug/L	0.3074	0.135	ug/L	0.3074	227.21%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	18.9	0.197	ug/L	0.0352	0.197	ug/L	0.0352	17.84%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date	QC Group
6010B	LEAD (PB)	0.50 U	0.50	mg/kg	01/09/13	01/09/13	#6010B-130109A-AY73780

Metals SC-Blank-REG MDLs
Printed: 01/18/13 12:49:57 PM

Sequence No.: 19
Sample ID: 130109A-3050-BLK
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 49
Date Collected: 01/09/13 3:28:18 PM
Data Type: Reprocessed on 01/10/13 3:53:21 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 130109A-3050-BLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	157.0	1.123	ug/L	0.1848	0.045	mg/kg	0.0074	16.46%
Al 308.215	6.7	15.59	ug/L	15.025	0.624	mg/kg	0.6010	96.38%
As 188.979	-1.5	-0.261	ug/L	0.7972	-0.010	mg/kg	0.0319	305.81%
B	31.1	34.72	ug/L	8.276	1.389	mg/kg	0.3310	23.83%
Ba 233.527	10.4	0.057	ug/L	0.0514	0.002	mg/kg	0.0021	89.94%
Be 313.107	-346.9	-0.051	ug/L	0.0124	-0.002	mg/kg	0.0005	24.48%
Ca 315.887	-180.7	-48.68	ug/L	3.366	-1.947	mg/kg	0.1346	6.91%
Cd 214.440	146.5	0.392	ug/L	0.0446	0.016	mg/kg	0.0018	11.37%
Co 228.616	13.6	0.178	ug/L	0.0505	0.007	mg/kg	0.0020	28.42%
Cr 267.716	61.4	0.403	ug/L	0.0701	0.016	mg/kg	0.0028	17.41%
Cu 327.393	-28.1	-0.300	ug/L	0.2539	-0.012	mg/kg	0.0102	84.57%
Fe 273.955	-44.9	-1.543	ug/L	0.7988	-0.062	mg/kg	0.0320	51.77%
K 766.490	-113.5	-279.5	ug/L	67.98	-11.18	mg/kg	2.719	24.32%
Mg 285.213	-25.5	-4.205	ug/L	0.5305	-0.168	mg/kg	0.0212	12.62%
Mn 257.610	-21.0	-1.702	ug/L	0.0924	-0.068	mg/kg	0.0037	5.43%
Mo 202.031	74.9	1.550	ug/L	0.2402	0.062	mg/kg	0.0096	15.50%
Na 589.592	137.5	102.8	ug/L	8.00	4.114	mg/kg	0.3198	7.78%
Ni 231.604	-103.1	-1.485	ug/L	0.2724	-0.059	mg/kg	0.0109	18.35%
P 213.617	290.2	38.34	ug/L	0.418	1.534	mg/kg	0.0167	1.09%
Pb 220.353	-47.2	-2.896	ug/L	0.2527	-0.116	mg/kg	0.0101	8.73%
Sb 206.836	3.7	0.511	ug/L	0.8725	0.020	mg/kg	0.0349	170.63%
Se 196.026	15.4	2.617	ug/L	1.7069	0.105	mg/kg	0.0683	65.21%
Sn 189.927	-16.9	-2.122	ug/L	0.8459	-0.085	mg/kg	0.0338	39.87%
Sr 421.552	52.6	1.555	ug/L	0.5435	0.062	mg/kg	0.0217	34.95%
Ti 337.279	1.0	0.066	ug/L	1.4403	0.003	mg/kg	0.0576	>999.9%
Tl 190.801	4.9	0.681	ug/L	0.6881	0.027	mg/kg	0.0275	101.07%
V 292.402	-117.7	-0.419	ug/L	0.2621	-0.017	mg/kg	0.0105	62.55%
Zn 206.200	-188.3	-1.982	ug/L	0.0863	-0.079	mg/kg	0.0035	4.35%

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level mg/kg	SPK Result mg/kg	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
EPA 6010B	LEAD (PB)	10.00	9.7	97.0	80-120	01/09/13	01/09/13	#6010B-130109A-AY73780

Comments: _____

Sequence No.: 20
Sample ID: 130109A-3050-LCS
Analyst: RJS
Logged In Analyst (Original) : chemist_metals
Initial Sample Wt: 2.5 g
Dilution:

Autosampler Location: 50
Date Collected: 01/09/13 3:33:35 PM
Data Type: Reprocessed on 01/10/13 3:53:22 PM
Initial Sample Vol:
Sample Prep Vol: 100 mL

Mean Data: 130109A-3050-LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 338.289	13258.2	94.81	ug/L	1.070	3.792	mg/kg	0.0428	1.13%
Al 308.215	1159.0	2729	ug/L	34.5	109.2	mg/kg	1.38	1.26%
As 188.979	1300.8	230.2	ug/L	0.24	9.208	mg/kg	0.0097	0.11%
B	335.7	376.9	ug/L	4.87	15.08	mg/kg	0.195	1.29%
Ba 233.527	43264.2	236.0	ug/L	1.24	9.441	mg/kg	0.0497	0.53%
Be 313.107	332476.1	48.52	ug/L	0.332	1.941	mg/kg	0.0133	0.68%
Ca 315.887	109920.1	29610	ug/L	372.4	1185	mg/kg	14.9	1.26%
Cd 214.440	19331.9	51.56	ug/L	0.119	2.062	mg/kg	0.0048	0.23%
Co 228.616	19351.1	245.8	ug/L	1.00	9.834	mg/kg	0.0400	0.41%
Cr 267.716	38924.5	254.8	ug/L	1.97	10.19	mg/kg	0.079	0.77%
Cu 327.393	22178.9	237.1	ug/L	3.66	9.485	mg/kg	0.1463	1.54%
Fe 273.955	29076.3	1006	ug/L	7.9	40.24	mg/kg	0.315	0.78%
K 766.490	1620.7	3994	ug/L	35.8	159.8	mg/kg	1.43	0.90%
Mg 285.213	182134.1	30020	ug/L	340.9	1201	mg/kg	13.6	1.14%
Mn 257.610	4058.3	327.1	ug/L	1.83	13.08	mg/kg	0.073	0.56%
Mo 202.031	12130.9	251.5	ug/L	0.69	10.06	mg/kg	0.027	0.27%
Na 589.592	56893.2	42490	ug/L	399.8	1699	mg/kg	16.0	0.94%
Ni 231.604	17671.9	253.9	ug/L	0.45	10.15	mg/kg	0.018	0.18%
P 213.617	14538.5	1921	ug/L	5.8	76.83	mg/kg	0.233	0.30%
Pb 220.353	3958.4	243.0	ug/L	1.94	9.720	mg/kg	0.0776	0.80%
Sb 206.836	1584.1	218.1	ug/L	0.91	8.726	mg/kg	0.0365	0.42%
Se 196.026	1300.5	218.9	ug/L	2.16	8.755	mg/kg	0.0863	0.99%
Sn 189.927	2015.7	253.1	ug/L	2.48	10.12	mg/kg	0.099	0.98%
Sr 421.552	22211.4	656.7	ug/L	7.87	26.27	mg/kg	0.315	1.20%
Ti 337.279	3578.1	240.3	ug/L	1.55	9.612	mg/kg	0.0620	0.64%
Tl 190.801	1717.5	237.9	ug/L	1.33	9.516	mg/kg	0.0534	0.56%
V 292.402	65078.6	251.2	ug/L	2.29	10.05	mg/kg	0.092	0.91%
Zn 206.200	47787.4	506.9	ug/L	2.72	20.27	mg/kg	0.109	0.54%

M3050

Metals Digestion Worksheet

Method Name 3050B Digestion **Prep Method** M3050 **Set** 130109A **Units** mL

Spikes	
Spiked ID 1	LCSW LOT# 1039704-31514
Spiked ID 2	LCSW LOT# 1039705-31515
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 01/09/13 8:45:00 AM
Witnessed By	DRA Date: 01/09/13 8:45:00 AM

Starting Temp:	95 c
Ending Temp:	95 c
Temperature Type:	Mod Block
Sufficient Vol for Matrix QC:	Yes
End Date/Time	01/09/13 13:30

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	130109A Blk				2.50g	100mL	01/09/13 8:45	equip: Modblock4
2	130109A LCS		1mL	1+2	2.50g	100mL	01/09/13 8:45	equip: Modblock4
3	AY73776	AY73776M01			2.48g	100mL	01/09/13 8:45	equip: Modblock4
4	AY73777	AY73777M01			2.52g	100mL	01/09/13 8:45	equip: Modblock4
5	AY73780	AY73780M01			2.47g	100mL	01/09/13 8:45	equip: Modblock4
6	AY73780 MS	AY73780M01	2mL	1+2	2.47g	100mL	01/09/13 8:45	equip: Modblock4
7	AY73780 MSD	AY73780M01	2mL	1+2	2.47g	100mL	01/09/13 8:45	equip: Modblock4

Solvent and Lot#
:1 HNO3 11-8-12
:NO3 J.T.B. L12065 0291
:2O2 J.T.B K20J00 0254
:CL BDH # 4112030 0290

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	DRA
Date	1/9/13
Time	16:42
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	nm
Bring up to volume	nm
Modified	01/08/13 3:00:28 PM

Reviewed By: DRA **Date:** 1/9/13

068

Metals Standards Log Book # 36

BC 1/8/13
6020/6020A
(A)

1/8/13 BC

ICP-MS STANDARDS 6020/6020A/3015/3051A
Prep Date: Today
Expires. 1 week
Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL Di Water
Lot #L12065
20 mL HCL / 2000mL Di Water
Lot #51358

Internal Standard Mix: Prep 01/07/2013

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	ABS STDS	092712-31505
50 uL	CCV-B	ABS STDS	092712-31506
50 uL	CCV-C	ABS STDS	092712-31507

Prepared in 100 mL of 1% HNO3/1.0% HCL

Standard 3

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	ABS STDS	092712-31505
25 uL	CCV-B	ABS STDS	092712-31506
25 uL	CCV-C	ABS STDS	092712-31507

Prepared in 100 mL of 1% HNO3/1.0% HCL

Intermediate-Sb
100 uL of Sb STD (CPI 12A011-30298) in 10 mL of 1% HNO3/1.0% HCL

ICV-Sb
100 uL of Intermediate-Sb in 10 mL of 1% HNO3/1.0% HCL

Standard 2
Amount STD
500 uL Standard 4
Prepared in 50 mL of 1% HNO3/1.0% HCL

Standard 1
Amount STD
50 uL Standard 4
Prepared in 50 mL of 1% HNO3/1.0% HCL

ICP-MS ICV

Amount	STD		
50 uL	QCS ICV A	CPI	11C184-30611
50 uL	QCS ICV B	CPI	11C184-30612

Prepared in 50 mL of 1% HNO3/1.0% HCL

ICSA Prep:

1 mL	ICSA	CPI	12I082-31309

Prepared in 5 mL of 1% HNO3/1.0% HCL

ICSAB Prep:

1mL	ICSA		
0.025mL	INT	O2Si	1032370-30265

Prepared in 5 mL of 1% HNO3/1.0% HCL

ICP-LDR

Amount	STD		
50 uL	CCV-A	ABS STDS	092712-31505
50 uL	CCV-B	ABS STDS	092712-31506
50 uL	CCV-C	ABS STDS	092712-31507

Prepared in 10 mL of 1% HNO3/1.0% HCL

TBJ 1/8/13
6010 B/C
(A)

1%HNO3 / 5%HCl BLK				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	EMD	UN1789-265	10/22/12
20 mL	HNO3	JT BAKER	L10023-266	10/24/12
Prepared in 2000 ml DI Water				
STD 1 / LDL 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
STD 3 / HDL 6010B/6010C				
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15
Prepared in 100 ml 1%HNO3 / 5%HCl				
STD 2 / CCV1 6010B/6010C/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
25mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	
CCV2 6010B/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
15mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICSAB				
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICV				
0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 1%HNO3/5%HCl				

TBJ 1/8/13

BC 1/9
6020/6
(A)

BC 1/9

LD 1/9

TBJ 1/9/13
6010 B/C
(A)

1%HNO3 / 5%HCl BLK				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	EMD	UN1789-265	10/22/12
20 mL	HNO3	JT BAKER	L10023-266	10/24/12
Prepared in 2000 ml DI Water				
STD 1 / LDL 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.5 mL	6010 LDL	ABSOLUTE	1039165-31300	10/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
STD 3 / HDL 6010B/6010C				
1ML	CCV-A	ABSOLUTE	012512-30926	01/25/15
1ML	CCV-B	ABSOLUTE	021312-30928	02/13/15
1ML	CCV-C	ABSOLUTE	012512-30927	01/25/15
Prepared in 100 ml 1%HNO3 / 5%HCl				
STD 2 / CCV1 6010B/6010C/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
25mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	
CCV2 6010B/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
15mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICSAB				
1mL	Al	CPI	11J015-30092	05/28/13
1mL	Ca	CPI	11J031-29989	05/14/13
1mL	Mg	CPI	11K178-30093	05/28/13
1mL	Fe	O2SI	1030787-30616	05/17/13
0.5mL	INT SPECIAL MIX	O2SI	1032370-30265	02/01/13
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICV				
0.5ML	QCS ICV A	CPI	12C184-30611	09/20/13
0.5ML	QCS ICV B	CPI	12C184-30612	09/20/13
Prepared in 50ml 1%HNO3/5%HCl				

TBJ 1/9/13

6010 Injection Log

Directory: K:\ICAP PHOEBE\Backup Excel\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	09 Jan 2013	13:50	CalBlk 130109RJS I:PB O:R		130109A6010	1.
2	09 Jan 2013	13:55	STD 1 130109RJS I:PB O:RJ		130109A6010	1.
3	09 Jan 2013	14:00	STD 2 130109RJS I:PB O:RJ		130109A6010	1.
4	09 Jan 2013	14:03	STD 3 130109RJS I:PB O:RJ		130109A6010	1.
5	09 Jan 2013	14:07	ICV 130109RJS I:PB O:RJS		130109A6010	1.
6	09 Jan 2013	14:12	ICB 130109RJS I:PB O:RJS		130109A6010	1.
8	09 Jan 2013	14:21	ICSA 130109RJS I:PB O:RJS		130109A6010	1.
9	09 Jan 2013	14:26	ICSAB 130109RJS I:PB O:RJ		130109A6010	1.
10	09 Jan 2013	14:36	CCV1 130109RJS I:PB O:RJS		130109A6010	1.
11	09 Jan 2013	14:44	CCB 130109RJS I:PB O:RJS		130109A6010	1.
17	09 Jan 2013	15:15	CCV2 130109RJS I:PB O:RJS		130109A6010	1.
18	09 Jan 2013	15:21	CCB 130109RJS I:PB O:RJS		130109A6010	1.
19	09 Jan 2013	15:28	130109A-3050-BLK		130109A6010	1.
20	09 Jan 2013	15:33	130109A-3050-LCS		130109A6010	1.
22	09 Jan 2013	15:44	AY73777M01		130109A6010	1.
23	09 Jan 2013	15:49	AY73780M01		130109A6010	1.
26	09 Jan 2013	16:05	AY73780M01-A		130109A6010	1.
28	09 Jan 2013	16:17	CCV1 130109RJS I:PB O:RJS		130109A6010	1.
29	09 Jan 2013	16:24	CCB 130109RJS I:PB O:RJS		130109A6010	1.

Wetlab Results

ARF: 69677

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Parsons
8000 Centre Park Drive Ste 200
Austin, TX 78754

Attn: Tammy Chang

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
APPL ID: AY73777	-Client Sample ID: GT13003M		-Sample Collection Date: 01/06/13		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	76.5	2.0	%	01/08/13	01/09/13
APPL ID: AY73780	-Client Sample ID: GT13002M		-Sample Collection Date: 01/06/13		Project: 748350.02000 CSSA	
CLP MOIST	MOISTURE	76.8	2.0	%	01/08/13	01/09/13

Printed: 01/18/13 11:48:22 AM

% Moisture

Batch: QCG 130108-M004607

Method: CLP 4.0

Date: 01/08/13 15:38

Sample	Container	Pan (g)	Pan+Wet (g)	Pan+Dry 1 (g)	Pan+Dry 2 (g)	Moisture (%)	Comments
AY73780D	m01	0.8399	8.1416	2.5212	2.5212	76.974	ay73780m01
		01/08/13 15:38	01/08/13 15:39	01/09/13 09:57	01/09/13 09:57		
AY73780	m01	0.8408	8.1671	2.5401	2.5401	76.805	ay73780m01
		01/08/13 15:36	01/08/13 15:38	01/09/13 09:56	01/09/13 09:56		
AY73777	m01	0.8434	7.2573	2.3509	2.3510	76.495	ay73777m01
		01/08/13 15:35	01/08/13 15:36	01/09/13 09:56	01/09/13 09:56		
AY73776	m01	0.8368	8.2486	2.9092	2.9094	72.036	ay73776m01
		01/08/13 15:34	01/08/13 15:35	01/09/13 09:56	01/09/13 09:56		

Date/Time InOven@104°C	Date/Time OutOven@104°C	Date/Time InOven@104°C	Date/Time OutOven@104°C
01/08/13 3:40:00 PM			01/09/13 9:56:00 AM

Date	Initials	Balance	Weight	Reading	Lower Limit	Upper Limit	Comments / Is the Bubble Centered?
1/8/13	BB	Mettler AT200	0.5g	0.5002 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0003 g	0.9990	1.0010	
		Mettler AT200	20g	20.0005 g	19.9800	20.0200	
		Mettler AT200	50g	50.0012 g	49.9500	50.0500	
		Mettler AT200	100g	100.0021 g	99.9000	100.1000	
		Mettler AT200	150g	150.0030 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.01 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.00 g	1960.00	2040.00	
1-9-13	CK	Mettler AT200	0.5g	0.50002g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0002 g	0.9990	1.0010	
		Mettler AT200	20g	20.0006 g	19.9800	20.0200	
		Mettler AT200	50g	50.0010g	49.9500	50.0500	
		Mettler AT200	100g	100.0020g	99.9000	100.1000	
		Mettler AT200	150g	150.0028 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	999.99 g	980.00	1020.00	
		OHAUS ARC120	2kg	1999.98 g	1960.00	2040.00	
1-10-13	CK	Mettler AT200	0.5g	0.50001 g	0.4995	0.5005	Yes
		Mettler AT200	1g	1.0000 g	0.9990	1.0010	
		Mettler AT200	20g	20.0004g	19.9800	20.0200	
		Mettler AT200	50g	50.0010 g	49.9500	50.0500	
		Mettler AT200	100g	100.0019 g	99.9000	100.1000	
		Mettler AT200	150g	150.0029 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.01 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.01 g	1960.00	2040.00	
1/11/13	BB						Yes
		Mettler AT200	0.5g	0.4997 g	0.4995	0.5005	
		Mettler AT200	1g	0.9996 g	0.9990	1.0010	
		Mettler AT200	20g	20.0001 g	19.9800	20.0200	
		Mettler AT200	50g	50.0007g	49.9500	50.0500	
		Mettler AT200	100g	100.0016 g	99.9000	100.1000	
		Mettler AT200	150g	150.0024 g	149.8500	150.1500	
		OHAUS ARC120	0.1g	0.10 g	0.08	0.12	
		OHAUS ARC120	0.5g	0.50 g	0.48	0.52	
		OHAUS ARC120	1g	1.00 g	0.98	1.02	
		OHAUS ARC120	100g	100.00 g	98.00	102.00	
		OHAUS ARC120	1kg	1000.00 g	980.00	1020.00	
		OHAUS ARC120	2kg	2000.01 g	1960.00	2040.00	