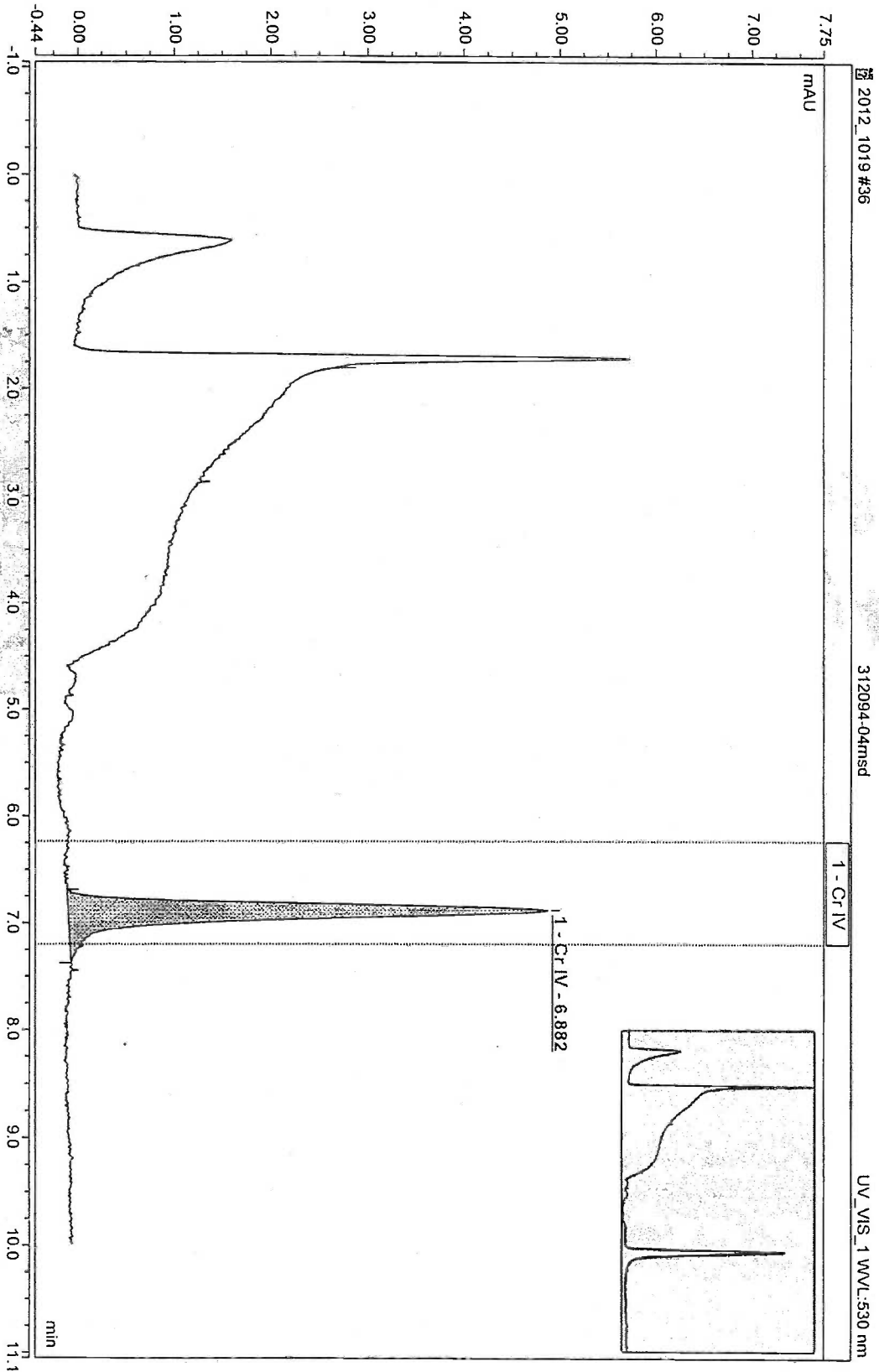


Sequence: 2012_1019
Injection #36: 312094-04.ms

Chromatogram



ALAB:00070A

LMC-PET-00001339

CONFIDENTIAL

Sequence: 2012_1019
Injection #36: 312094-04msd

Peak Results

Peak No.	Peak Name	Ret. Time min	Amount ppb	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.882	1.8119	100.00	0.8142	4.98	M	0.145	1.32	n.a.	12533
Maximum			1.8119	100.00	0.8142	4.98		0.145	1.32	0.00	12533
Minimum			1.8119	100.00	0.8142	4.98		0.145	1.32	0.00	12533
Sum			1.8119	100.00	0.8142	4.98					

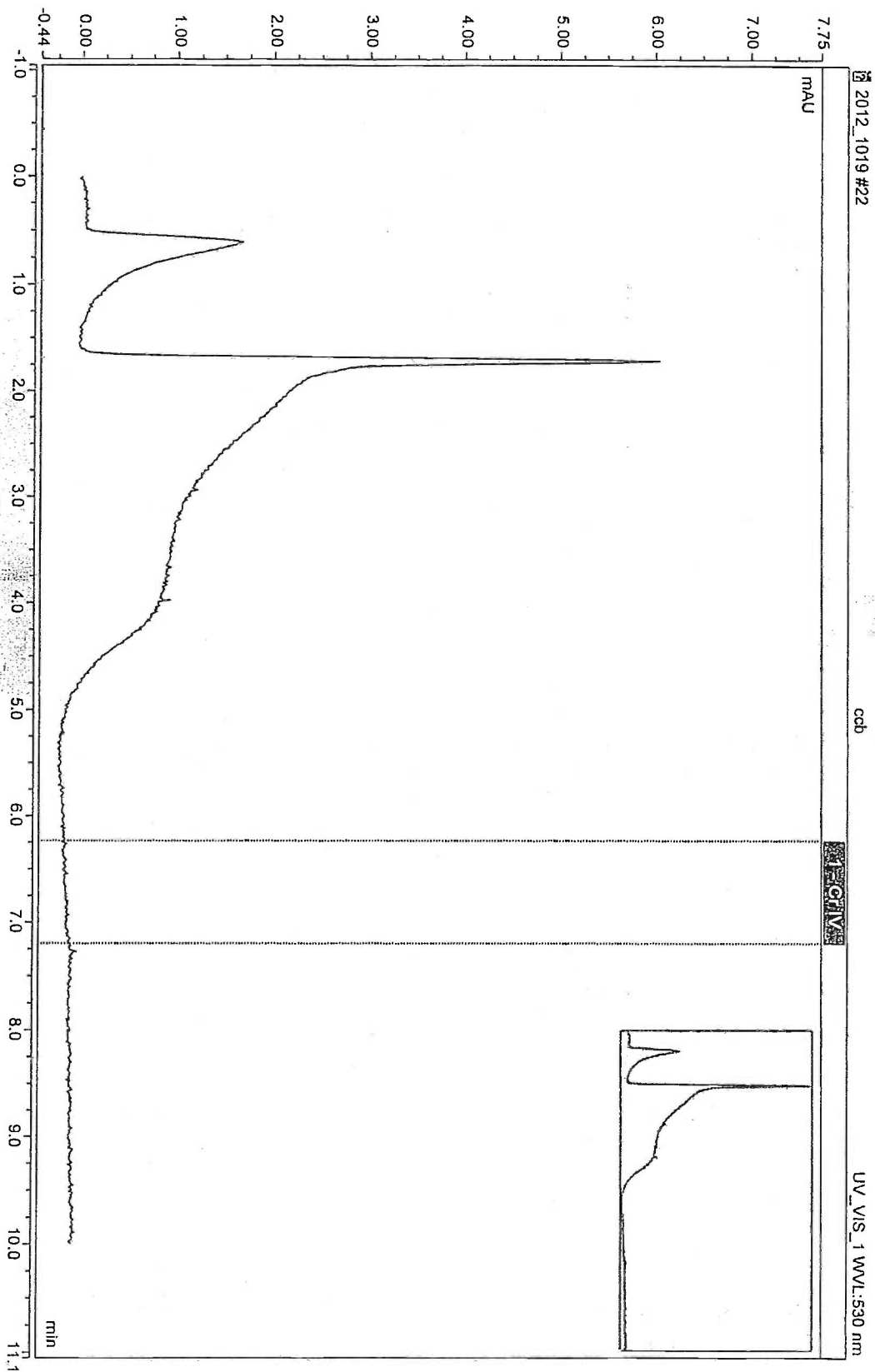


ALAB: 05070B

LMC-PET-00001340

Sequence: 2012_1019
Injection #22: ccb

Chromatogram



ALAB : 00071

CONFIDENTIAL

LMC-PET-00001341

Sequence: 2012_1019
Injection #22: ccb

Peak Results

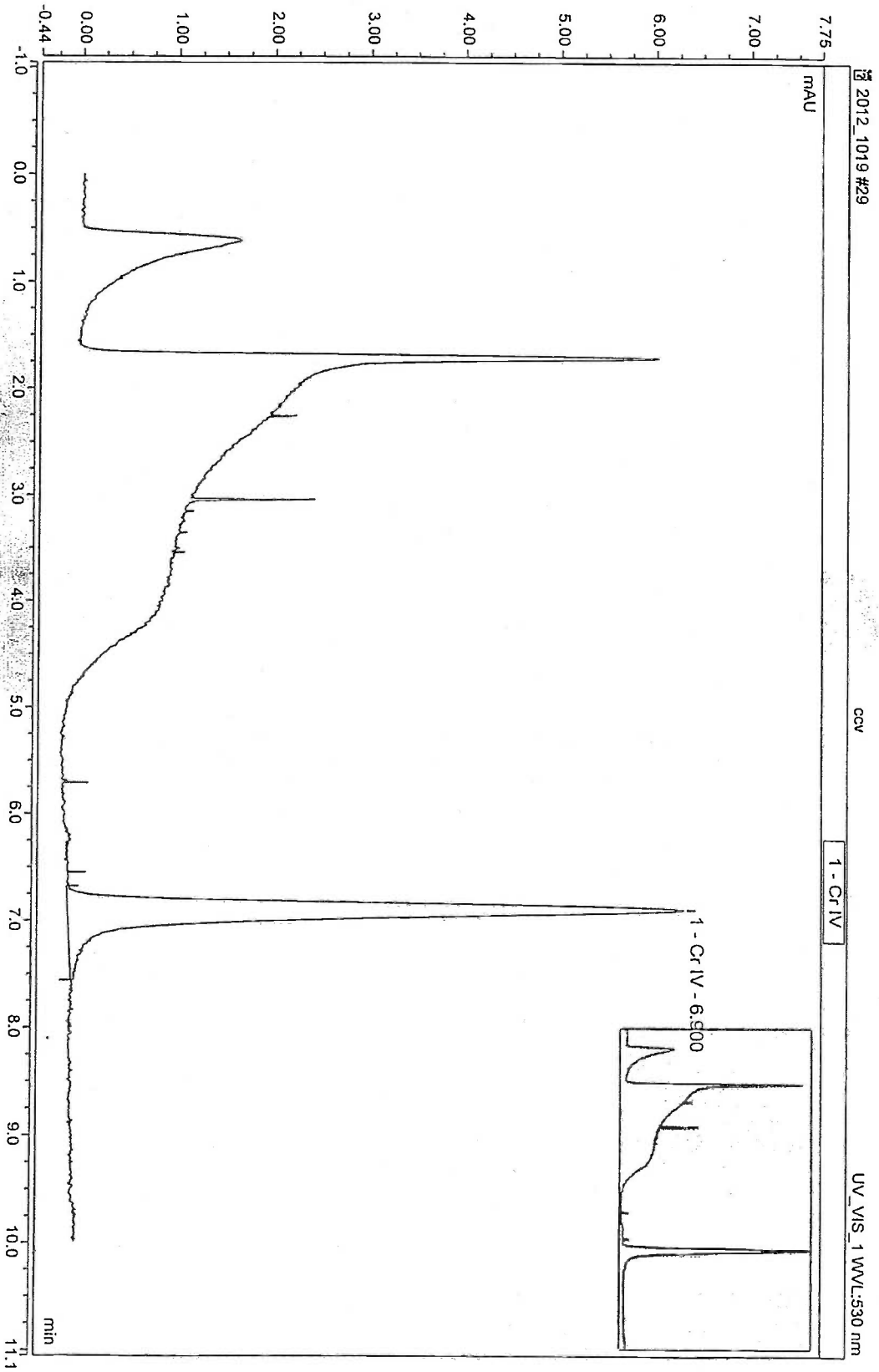
Peak No.	Peak Name	Ret. Time min	Amount n.a.	Rel. Area %	Area mAU/min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
Maximum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0
Minimum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0
Sum			0.0000	0.00	0.0000	0.00					



ALAB : 000072

Sequence: 2012_1019
Injection #29: ccv

Chromatogram



ALAB:00072A

LMC-PET-00001343

CONFIDENTIAL

Sequence: 2012_1019
Injection #29: ccv

Peak Results

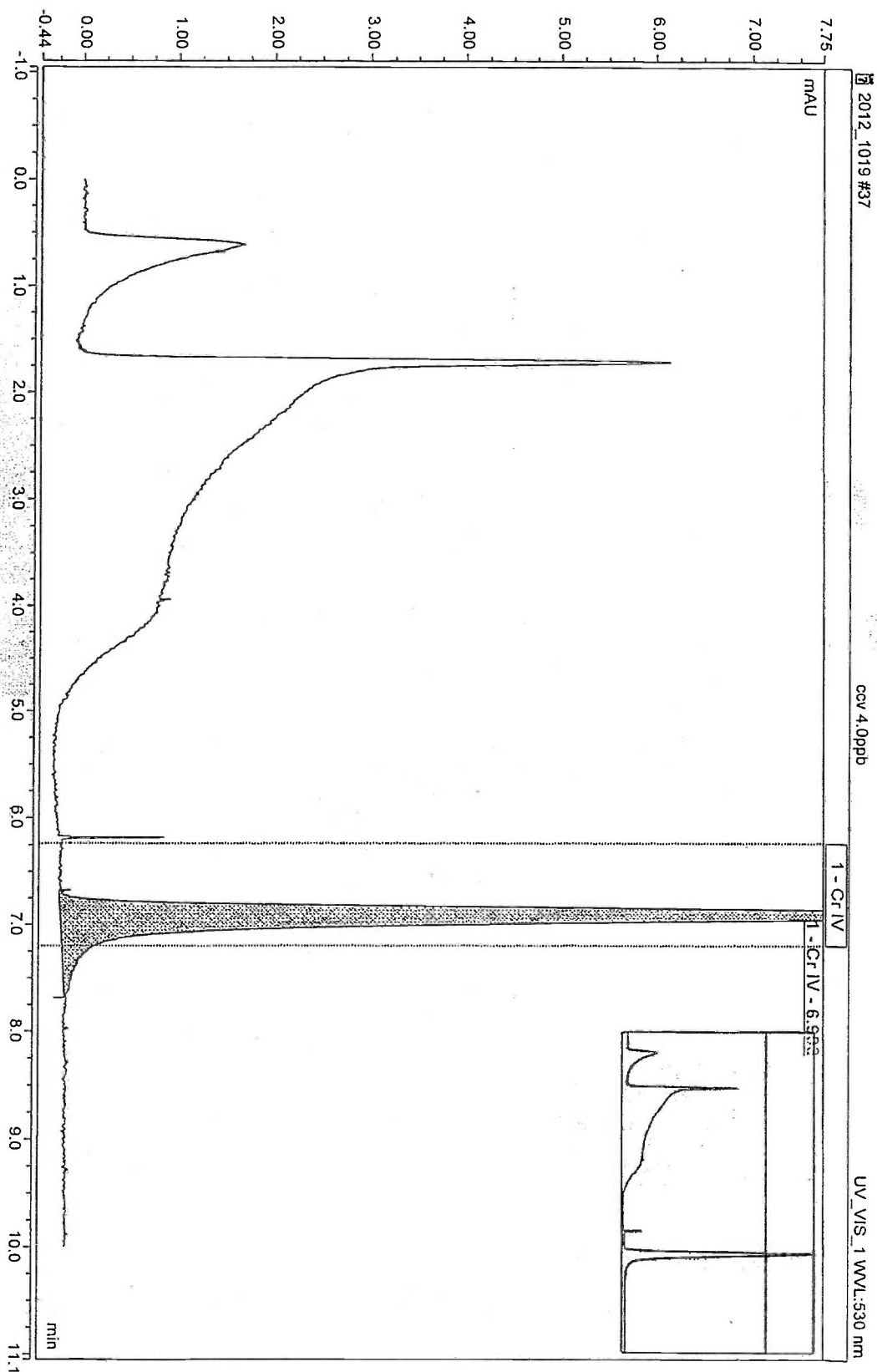
Peak No.	Peak Name	Ret. Time min	Amount ppb	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	CCV	6.43	2.4158	100.00	1.0855	6.43	Major	0.146	1.38	n.a.	12427
Maximum			2.4158	100.00	1.0855	6.43		0.146	1.38	0.00	12427
Minimum			2.4158	100.00	1.0855	6.43		0.146	1.38	0.00	12427
Sum			2.4158	100.00	1.0855	6.43					



ALAD: 000073

Sequence: 2012_1019
Injection #37: ccv 4.0ppb

Chromatogram



Sequence: 2012_1019
Injection #37: ccv 4.0ppb

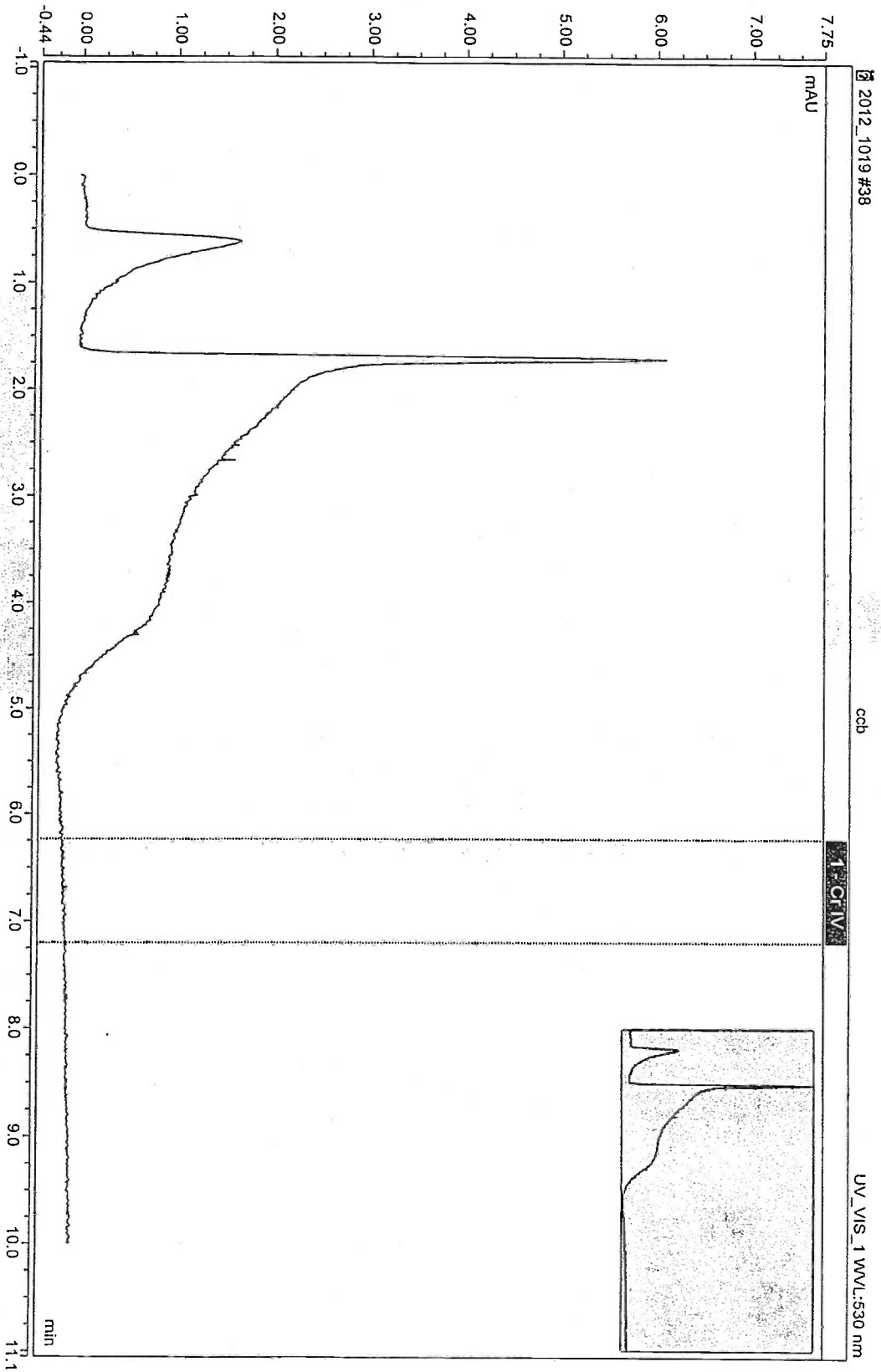
Peak Results

Peak No.	Peak Name	Ret. Time min	Amount ppb	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.903	4.0448	100.00	1.8175	10.67	M	0.146	1.41	n.a.	12340
Maximum			4.0448	100.00	1.8175	10.67		0.146	1.41	0.00	12340
Minimum			4.0448	100.00	1.8175	10.67		0.146	1.41	0.00	12340
Sum			4.0448	100.00	1.8175	10.67					

ALAB : 000074

Sequence: 2012_1019
Injection #38: ccb

Chromatogram



ALAB:00074 A

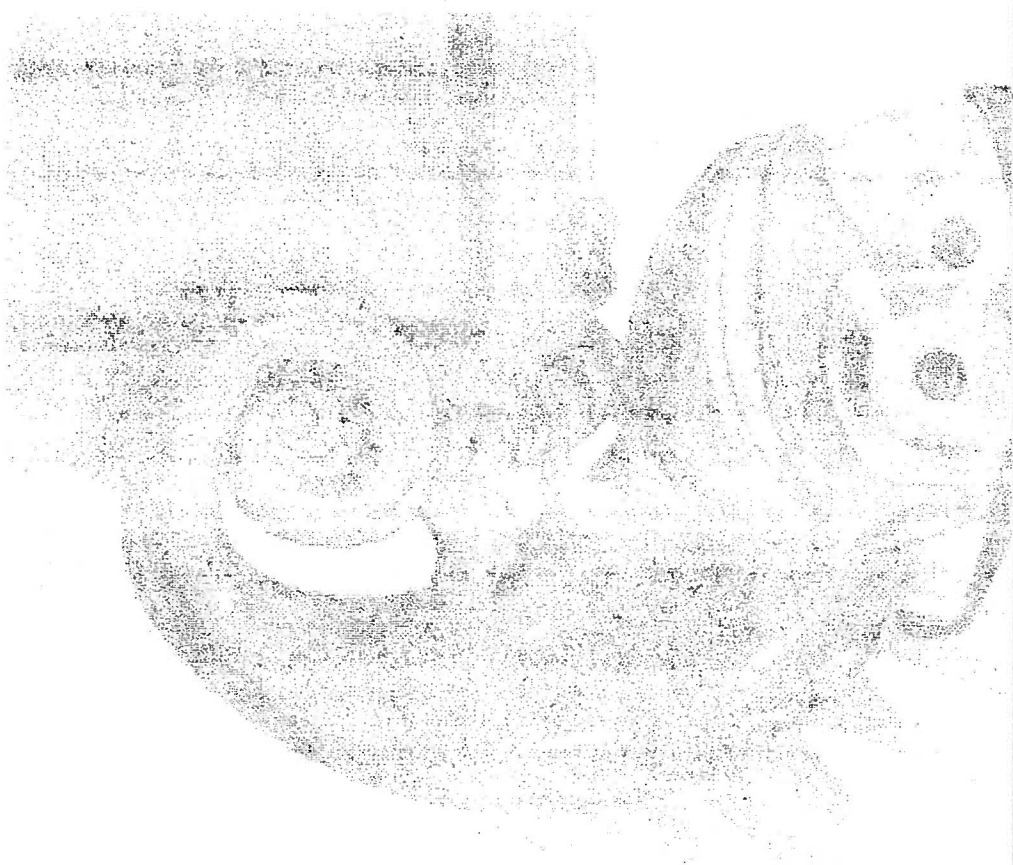
LMC-PET-00001347

CONFIDENTIAL

Sequence: 2012_1019
Injection #38: ccb

Peak Results

Peak No.	Peak Name	Ret. Time min	Amount n.a.	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
Maximum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0
Minimum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0
Sum			0.0000	0.00	0.0000	0.00					



ALAB : 00075

EPA 300.0

ALAB : 00076

CONFIDENTIAL

LMC-PET-00001349

ANIONS by ION CHROMATOGRAPHY
DATA PACKAGE

Sequence: 12-10-13 A
Operator: wei

Page 1 of 4
Printed: 10/17/2012 11:30:14 AM

Title: CIO4
Datasource: AL10410_local
Location: clo4 2012\Anion 2012\10 Oct 2012
Timebase: Associated_lab
#Samples: 46

Created: 10/13/2012 7:44:55 AM by wei
Last Update: 10/15/2012 12:18:14 PM by wei

No.	Name	Type	Program	Method	Status
1	 ccb	Unknown	anion_program	PERCHLORATE METHOD	Finished
2	 std1	Standard	anion_program	PERCHLORATE METHOD	Finished
3	 std2	Standard	anion_program	PERCHLORATE METHOD	Finished
4	 std3	Standard	anion_program	PERCHLORATE METHOD	Finished
5	 std4	Standard	anion_program	PERCHLORATE METHOD	Finished
6	 std5	Standard	anion_program	PERCHLORATE METHOD	Finished
7	 std6	Unknown	anion 16	PERCHLORATE METHOD	Finished
8	 ccb1=mb1	Unknown	anion_program	PERCHLORATE METHOD	Finished
9	 ccv1	Unknown	anion_program	PERCHLORATE METHOD	Finished
10	 312062-001-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
11	 312062-002-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
12	 312062-003-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
13	 312080-003-4	Unknown	anion_program	PERCHLORATE METHOD	Finished
14	 312080-004-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
15	 312080-003-4	Unknown	anion_program	PERCHLORATE METHOD	Finished
16	 312080-004-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
17	 312080-008-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
18	 312080-013-5	Unknown	anion_program	PERCHLORATE METHOD	Finished
19	 312080-014-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
20	 312080-013-5 ms1	Unknown	anion_program	PERCHLORATE METHOD	Finished
21	 ccv2=lcs1	Unknown	anion_program	PERCHLORATE METHOD	Finished
22	 ccb2	Unknown	anion_program	PERCHLORATE METHOD	Finished
23	 312080-015-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
24	 312080-013-5	Unknown	anion_program	PERCHLORATE METHOD	Finished
25	 312080-014-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
26	 312081-001-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
27	 312081-002-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
28	 312081-003-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
29	 312096-001-6	Unknown	anion_program	PERCHLORATE METHOD	Finished
30	 312087-001-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
31	 312096-001-6	Unknown	anion_program	PERCHLORATE METHOD	Finished
32	 312057-001-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
33	 312080-014-1 ms2	Unknown	anion_program	PERCHLORATE METHOD	Finished
34	 ccv3	Unknown	anion_program	PERCHLORATE METHOD	Finished
35	 lcs2	Unknown	anion_program	PERCHLORATE METHOD	Finished
36	 ccb3=mb2	Unknown	anion_program	PERCHLORATE METHOD	Finished
37	 312057-002-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
38	 312094-005-5	Unknown	anion_program	PERCHLORATE METHOD	Finished
39	 312094-002-3	Unknown	anion_program	PERCHLORATE METHOD	Finished
40	 312094-005-5	Unknown	anion_program	PERCHLORATE METHOD	Finished
41	 312094-002-3 ms3	Unknown	anion_program	PERCHLORATE METHOD	Finished
42	 ccv4	Unknown	anion_program	PERCHLORATE METHOD	Finished

Sequence: 12-10-13 A
Operator: wei

Page 2 of 4
Printed: 10/17/2012 11:30:14 AM

Title: CIO4
Datasource: AL10410_local
Location: clo4 2012\Anion 2012\10 Oct 2012
Timebase: Associated_lab
#Samples: 46

Created: 10/13/2012 7:44:55 AM by wei
Last Update: 10/15/2012 12:18:14 PM by wei

No.	Name	Inj. Date/Time	Dil. Factor	Comment
1	ccb	8/6/2012 9:20:37 AM	1.0000	no guard separate014785 lot007-17-139
2	std1	8/6/2012 9:47:19 AM	1.0000	cs080612-1
3	std2	8/6/2012 10:09:13 AM	1.0000	cs080612-2
4	std3	8/6/2012 10:30:13 AM	1.0000	cs080612-3
5	std4	8/6/2012 10:51:45 AM	1.0000	cs080612-4
6	std5	8/6/2012 11:12:58 AM	1.0000	cs080612-5
7	std6	8/6/2012 11:34:43 AM	1.0000	cs080612-6
8	ccb1=mb1	10/13/2012 7:59:50 AM	1.0000	
9	ccv1	10/13/2012 8:21:02 AM	1.0000	f=8 cl=40 no2=10 no3=20 so4=40
10	312062-001-1	10/13/2012 8:41:58 AM	1.0000	tin
11	312062-002-1	10/13/2012 8:57:50 AM	1.0000	tin
12	312062-003-1	10/13/2012 9:14:39 AM	1.0000	tin
13	312080-003-4	10/13/2012 9:40:55 AM	1.0000	arcadis no3
14	312080-004-1	10/13/2012 10:06:08 AM	1.0000	arcadis no3
15	312080-003-4	10/13/2012 10:26:51 AM	5.0000	arcadis rep for no3
16	312080-004-1	10/13/2012 10:46:46 AM	5.0000	arcadis rep for no3
17	312080-008-1	10/13/2012 11:10:27 AM	1.0000	arcadis no3 mb
18	312080-013-5	10/13/2012 11:31:20 AM	1.0000	arcadis f/cl/so4/no2/no3 dup
19	312080-014-1	10/13/2012 11:51:57 AM	1.0000	arcadis f/cl/so4/no2/no3 dup
20	312080-013-5 ms1	10/13/2012 12:15:08 PM	10.0000	ms1
21	ccv2=ics1	10/13/2012 12:37:03 PM	1.0000	f=8 cl=40 no2=10 no3=20 so4=40
22	ccb2	10/13/2012 12:57:23 PM	1.0000	
23	312080-015-1	10/13/2012 1:18:06 PM	1.0000	arcadis no3
24	312080-013-5	10/13/2012 1:38:17 PM	2.0000	arcadis rep for no3
25	312080-014-1	10/13/2012 1:59:38 PM	2.0000	arcadis rep for no3
26	312081-001-1	10/13/2012 2:19:44 PM	1.0000	tin
27	312081-002-1	10/13/2012 2:36:41 PM	1.0000	tin
28	312081-003-1	10/13/2012 2:56:49 PM	1.0000	tin
29	312096-001-6	10/13/2012 3:11:38 PM	1.0000	the #3 cl/so4/tin
30	312087-001-1	10/13/2012 3:33:24 PM	25.0000	cl
31	312096-001-6	10/13/2012 3:45:16 PM	5.0000	rep for cl/no3
32	312057-001-1	10/13/2012 4:00:29 PM	25.0000	orange cl/so4
33	312080-014-1 ms2	10/13/2012 4:20:46 PM	10.0000	ms2
34	ccv3	10/13/2012 4:41:51 PM	1.0000	f=8 cl=40 no2=10 no3=20 so4=40
35	ics2	10/13/2012 5:02:38 PM	1.0000	
36	ccb3=mb2	10/13/2012 5:23:14 PM	1.0000	
37	312057-002-1	10/13/2012 5:43:48 PM	25.0000	orange cl/so4
38	312094-005-5	10/13/2012 6:03:49 PM	1.0000	MW-6 Arcadis/no3
39	312094-002-3	10/13/2012 6:24:01 PM	1.0000	B-1-CW20 Arcadis f/cl/so4/no3/no2
40	312094-005-5	10/13/2012 6:44:35 PM	5.0000	rep for no3
41	312094-002-3 ms3	10/13/2012 7:02:08 PM	10.0000	ms3
42	ccv4	10/13/2012 7:22:14 PM	1.0000	f=8 cl=40 no2=10 no3=20 so4=40

Sequence: 12-10-13 A
Operator: wei

Page 3 of 4
Printed: 10/17/2012 11:30:15 AM

Title: CIO4
Datasource: AL10410_local
Location: clo4 2012\Anion 2012\10 Oct 2012
Timebase: Associated_lab
#Samples: 46

Created: 10/13/2012 7:44:55 AM by wei
Last Update: 10/15/2012 12:18:14 PM by wei

No.	Name	Type	Program	Method	Status
43	 ccb4	Unknown	anion_program	PERCHLORATE METHOD	Finished
44	 end	Unknown	stop program	PERCHLORATE METHOD	Finished
45	 end	Unknown	stop program	PERCHLORATE METHOD	Finished
46	 end	Unknown	stop program	PERCHLORATE METHOD	Finished

Sequence: 12-10-13 A
Operator: wei

Page 4 of 4
Printed: 10/17/2012 11:30:15 AM

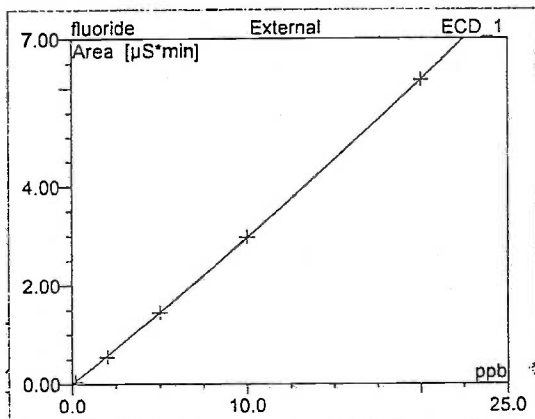
Title: CIO4
Datasource: AL10410_local
Location: clo4 2012\Anion 2012\10 Oct 2012
Timebase: Assciated_lab
#Samples: 46

Created: 10/13/2012 7:44:55 AM by wei
Last Update: 10/15/2012 12:18:14 PM by wei

No.	Name	Inj. Date/Time	Dil. Factor	Comment
43	 ccb4	10/13/2012 7:42:46 PM	1.0000	
44	 end	10/13/2012 8:09:17 PM	1.0000	
45	 end	10/13/2012 8:09:17 PM	1.0000	
46	 end	10/13/2012 8:09:17 PM	1.0000	

ALAB:00080A

Sequence:	12-09-27	Inj. Vol.:	20.0
Program:	anion_program	Operator:	n.a.
Inj. Date/Time:	08/06/12 10:51	Run Time:	18.57



No.	Ret. Time min	Peak Name	Cal. Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff. Det. %
1	3.28	fluoride	Quad	5	0.000	0.285	0.001	99.9948
3	5.88	chloride	Quad	5	0.000	0.245	0.001	99.9653
4	7.45	nitrite	Quad	5	0.000	0.112	0.000	99.9851
5	9.90	bromide	Quad	5	0.000	0.087	0.000	99.9977
6	11.68	nitrate	Quad	5	0.000	0.111	0.000	99.9933
7	17.06	sulfate	Quad	5	0.000	0.170	0.000	99.9970
AVERAGE:					0.0000	0.1682	0.0005	99.9888

CATION_report/Calibration(Batch)

PeakNet 6 (r) Dionex 2001 - 2006
Version 6.80 Build 2212

ALAB: 000081

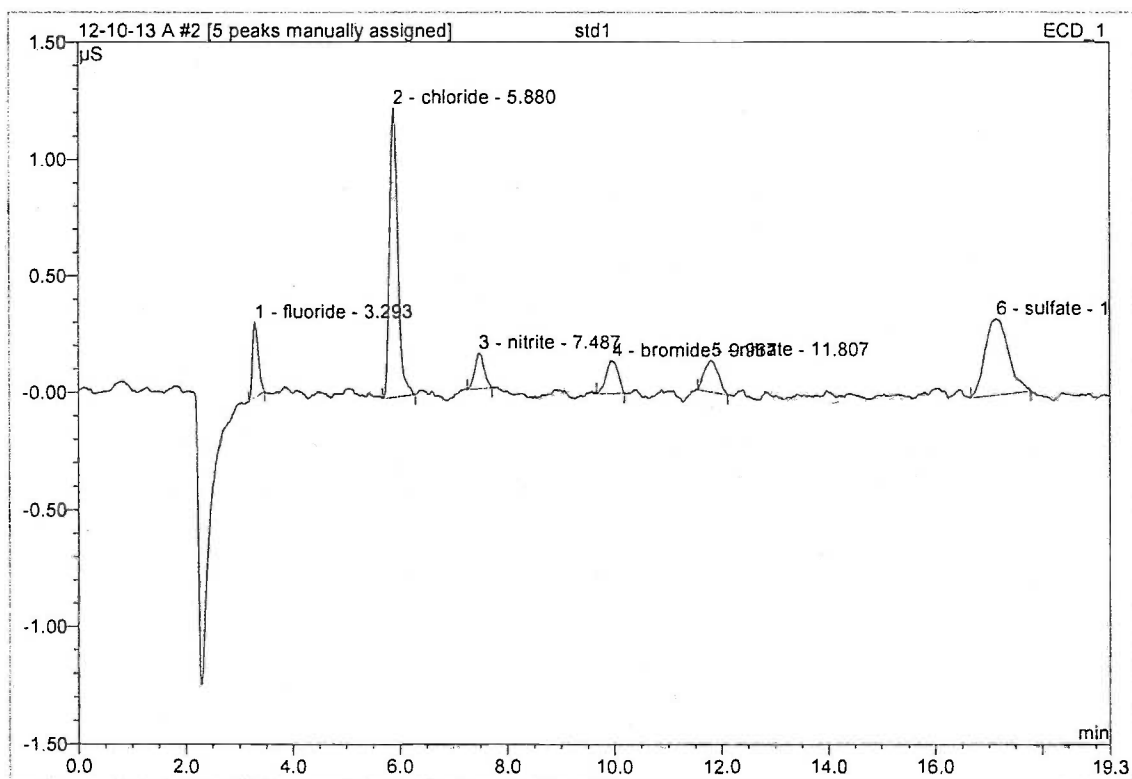
CONFIDENTIAL

LMC-PET-00001355

2 std1**cs080612-1**

Sample Name: std1
Vial Number: 531
Sample Type: standard
Control Program: anion_program
Quantif. Method: PERCHLORATE METHOD
Recording Time: 8/6/2012 9:47
Run Time (min): 19.27

Injection Volume: 20.0
Channel: ECD_1
Wavelength: n.a.
Bandwidth: n.a.
Dilution Factor: 1.0000
Sample Weight: 1.0000
Sample Amount: 1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.29	fluoride	0.324	0.041	7.70	0.144	BMB
2	5.88	chloride	1.244	0.217	40.61	0.883	BMB^
3	7.49	nitrite	0.153	0.031	5.73	0.274	BMB^
4	9.97	bromide	0.139	0.036	6.83	0.418	BMB^
5	11.81	nitrate	0.135	0.040	7.59	0.365	BMB^
6	17.16	sulfate	0.327	0.168	31.54	0.987	BMB^
Total:			2.322	0.534	100.00	3.071	

Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB: 00082

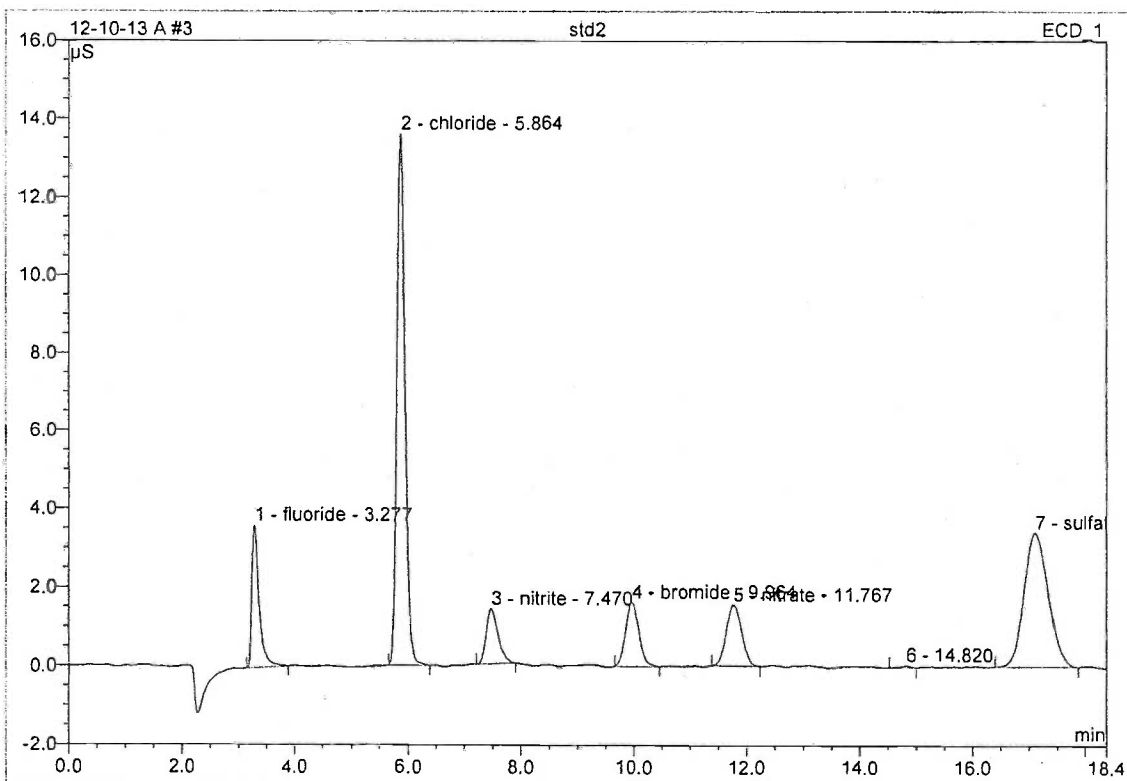
CONFIDENTIAL

LMC-PET-00001356

3 std2**cs080612-2**

Sample Name: **std2**
 Vial Number: **509**
 Sample Type: **standard**
 Control Program: **anion_program**
 Quantif. Method: **PERCHLORATE METHOD**
 Recording Time: **8/6/2012 10:09**
 Run Time (min): **18.38**

Injection Volume: **20.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **1.0000**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	3.635	0.545	9.49	1.897	BMB
2	5.86	chloride	13.597	2.214	38.56	8.859	BMB
3	7.47	nitrite	1.395	0.339	5.90	3.000	BMB
4	9.96	bromide	1.630	0.447	7.79	5.050	BMB
5	11.77	nitrate	1.548	0.494	8.60	4.380	BMB
6	14.82	n.a.	0.057	0.011	0.20	n.a.	BMB
7	17.10	sulfate	3.414	1.692	29.46	9.738	BMB
Total:			25.275	5.741	100.00	32.924	

Perchlorate/Integration

 Chromeleon (c) Dionex 1996-2001
 Version 6.80 Build 2212

ALAB : 000003

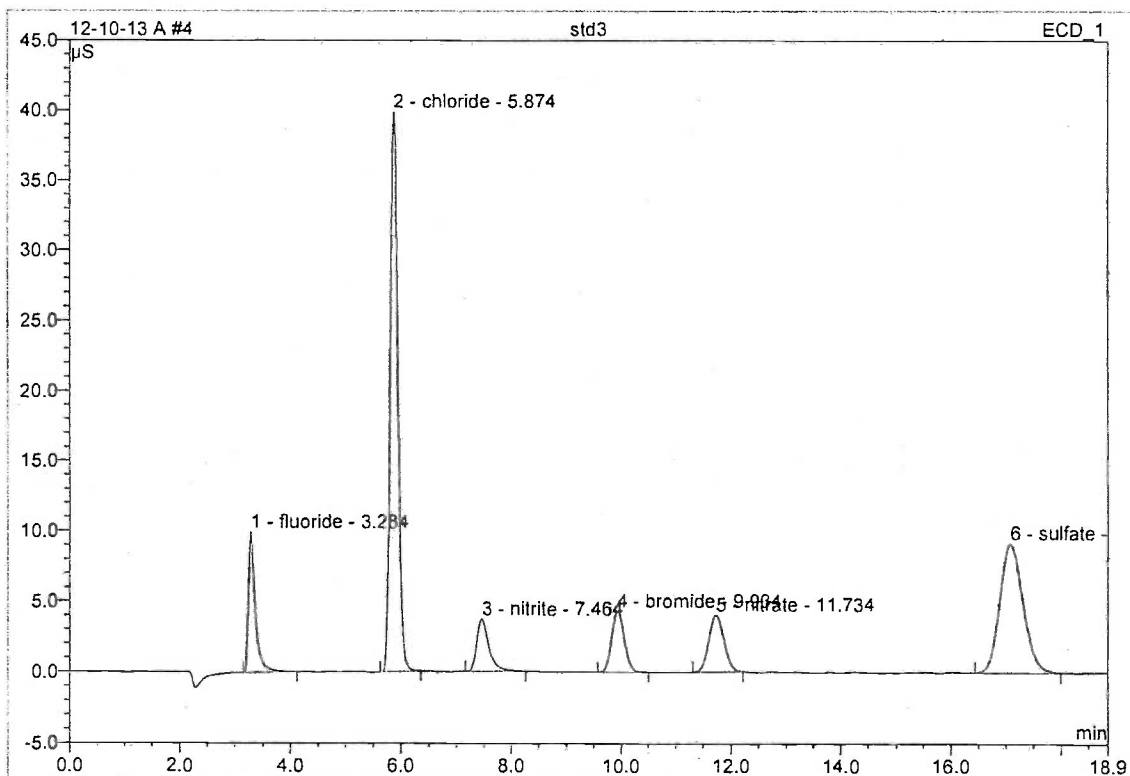
CONFIDENTIAL

LMC-PET-00001357

4 std3**cs080612-3**

Sample Name: **std3**
 Vial Number: **509**
 Sample Type: **standard**
 Control Program: **anion_program**
 Quantif. Method: **PERCHLORATE METHOD**
 Recording Time: **8/6/2012 10:30**
 Run Time (min): **18.86**

Injection Volume: **20.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **1.0000**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	9.962	1.454	9.37	5.001	BMB
2	5.87	chloride	39.886	6.264	40.40	24.217	BMB
3	7.46	nitrite	3.670	0.941	6.07	8.181	BMB
4	9.93	bromide	4.278	1.148	7.40	12.642	BMB
5	11.73	nitrate	4.002	1.270	8.19	10.970	BMB
6	17.08	sulfate	9.139	4.430	28.57	24.721	BMB
Total:			70.937	15.507	100.00	85.732	

Perchlorate/Integration

 Chromeleon (c) Dionex 1996-2001
 Version 6.80 Build 2212

ALAB: 000084

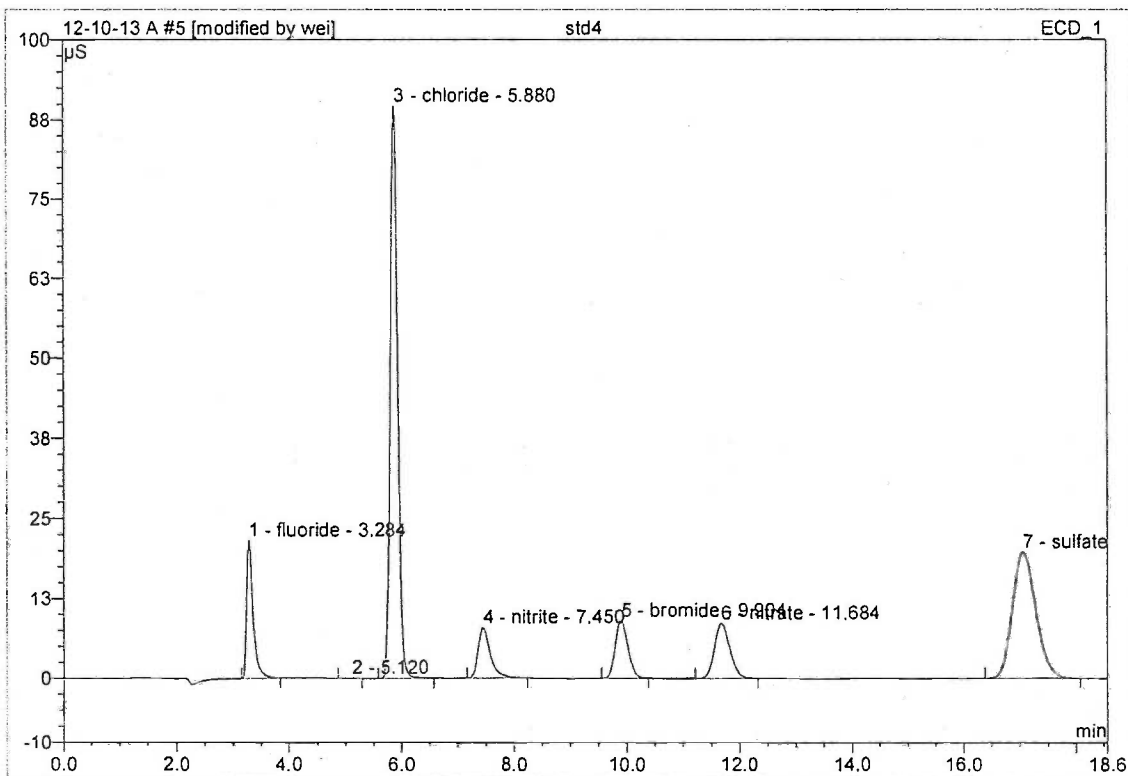
CONFIDENTIAL

LMC-PET-00001358

5 std4**cs080612-4**

Sample Name: **std4**
 Vial Number: **509**
 Sample Type: **standard**
 Control Program: **anion_program**
 Quantif. Method: **PERCHLORATE METHOD**
 Recording Time: **8/6/2012 10:51**
 Run Time (min): **18.57**

Injection Volume: **20.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **1.0000**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	21.596	2.975	8.90	10.036	BMB*
2	5.12	n.a.	0.057	0.014	0.04	n.a.	BMB
3	5.88	chloride	89.645	13.936	41.68	50.881	BMB
4	7.45	nitrite	7.877	1.975	5.91	16.649	BMB
5	9.90	bromide	9.004	2.348	7.02	24.888	BMB
6	11.68	nitrate	8.577	2.707	8.10	22.378	BMB
7	17.06	sulfate	19.781	9.478	28.35	50.272	BMB
Total:			156.538	33.433	100.00	175.105	

Perchlorate/Integration

 Chromeleon (c) Dionex 1996-2001
 Version 6.80 Build 2212

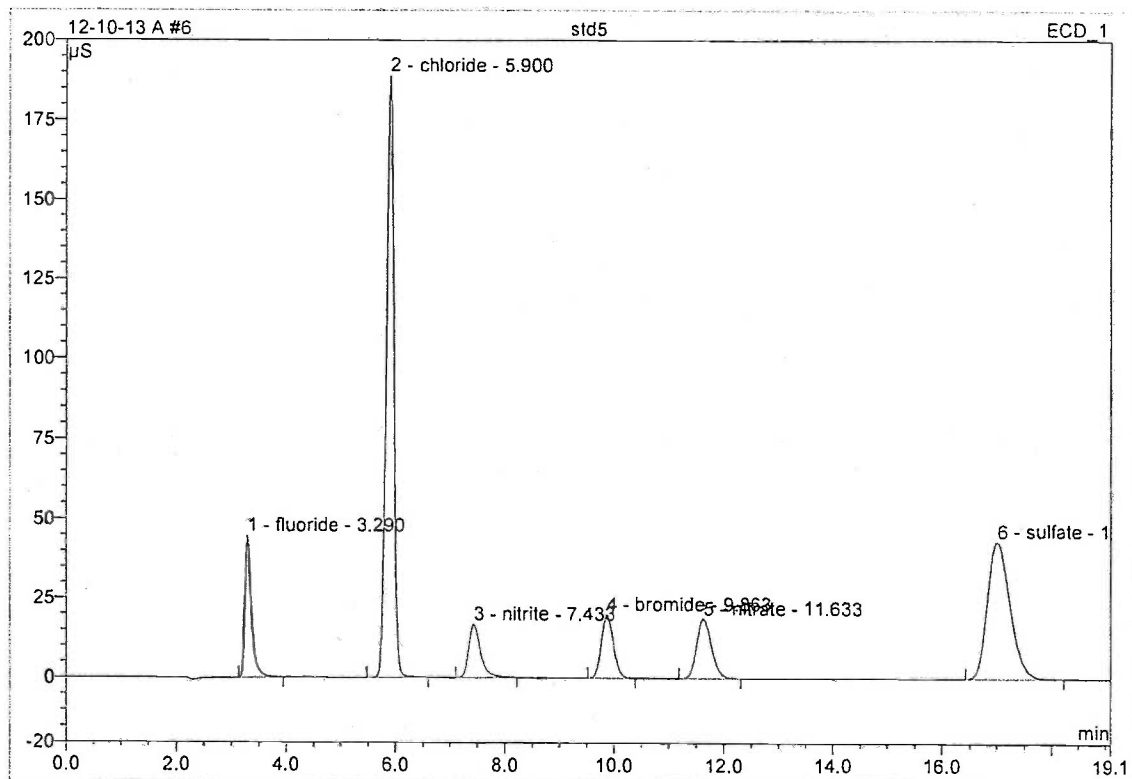
ALAB : 00085

CONFIDENTIAL

LMC-PET-00001359

6 std5**cs080612-5**

Sample Name:	std5	Injection Volume:	20.0
Vial Number:	509	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	anion_program	Bandwidth:	n.a.
Quantif. Method:	PERCHLORATE METHOD	Dilution Factor:	1.0000
Recording Time:	8/6/2012 11:12	Sample Weight:	1.0000
Run Time (min):	19.09	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.29	fluoride	44.717	6.156	8.55	19.992	BMB
2	5.90	chloride	188.788	30.143	41.87	99.860	BMB
3	7.43	nitrite	16.670	4.139	5.75	32.973	BMB
4	9.86	bromide	19.857	5.085	7.06	50.017	BMB
5	11.63	nitrate	18.643	5.800	8.06	44.273	BMB
6	17.01	sulfate	43.073	20.662	28.70	99.958	BMB
Total:			331.747	71.985	100.00	347.073	

Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB : 000006

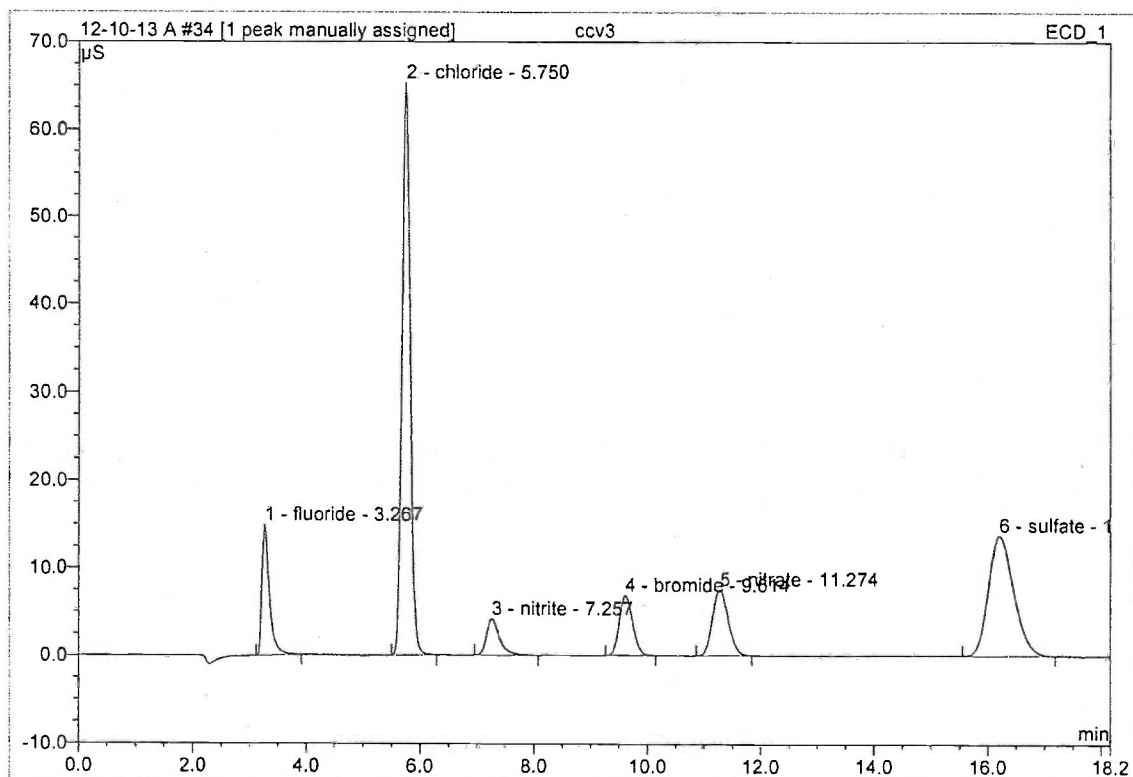
CONFIDENTIAL

LMC-PET-00001360

34 ccv3

f=8 cl=40 no2=10 no3=20 so4=40

Sample Name:	ccv3	Injection Volume:	20.0
Vial Number:	648	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	anion_program	Bandwidth:	n.a.
Quantif. Method:	PERCHLORATE METHOD	Dilution Factor:	1.0000
Recording Time:	10/13/2012 16:41	Sample Weight:	1.0000
Run Time (min):	18.16	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μ S	Area μ S*min	Rel.Area %	Amount ppb	Type
1	3.27	fluoride	14.912	2.304	9.01	7.840	BMB
2	5.75	chloride	65.272	10.820	42.32	40.386	BMB
3	7.26	nitrite	4.133	1.113	4.35	9.626	BMB
4	9.61	bromide	6.848	1.871	7.32	20.131	BMB
5	11.27	nitrate	7.500	2.420	9.46	20.174	BMB
6	16.21	sulfate	13.676	7.040	27.53	38.233	BMB^
Total:			112.341	25.569	100.00	136.390	

Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB: 000087

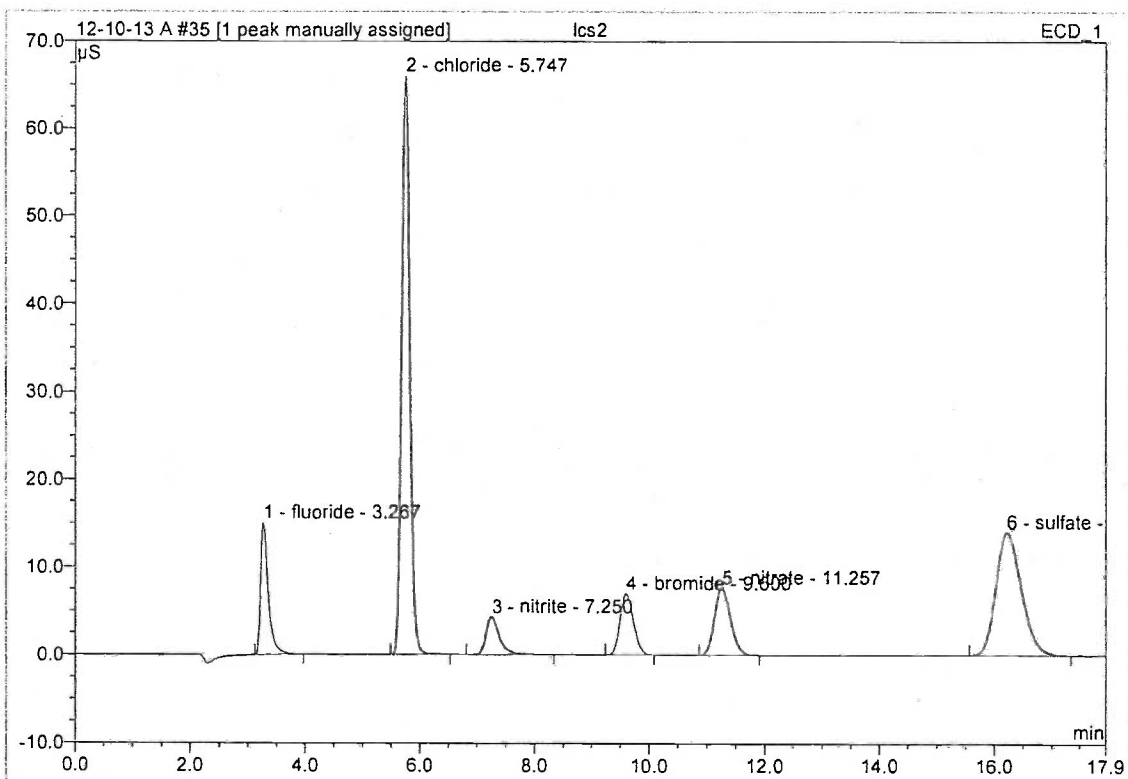
CONFIDENTIAL

LMC-PET-00001361

35 lcs2

Sample Name: **lcs2**
 Vial Number: **649**
 Sample Type: **unknown**
 Control Program: **anion_program**
 Quantif. Method: **PERCHLORATE METHOD**
 Recording Time: **10/13/2012 17:02**
 Run Time (min): **17.95**

Injection Volume: **20.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **1.0000**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**



No.	Ret.Time min	Peak Name	Height μ S	Area μ S*min	Rel.Area %	Amount ppb	Type
1	3.27	fluoride	15.031	2.318	8.92	7.885	BMB
2	5.75	chloride	65.988	10.916	42.02	40.718	BMB
3	7.25	nitrite	4.287	1.169	4.50	10.089	BMB
4	9.60	bromide	6.955	1.887	7.26	20.287	BMB
5	11.26	nitrate	7.620	2.453	9.44	20.426	BMB
6	16.22	sulfate	13.930	7.234	27.85	39.211	BMB^
Total:			113.811	25.977	100.00	138.616	

LC8

Perchlorate/Integration

 Chromeleon (c) Dionex 1996-2001
 Version 6.80 Build 2212

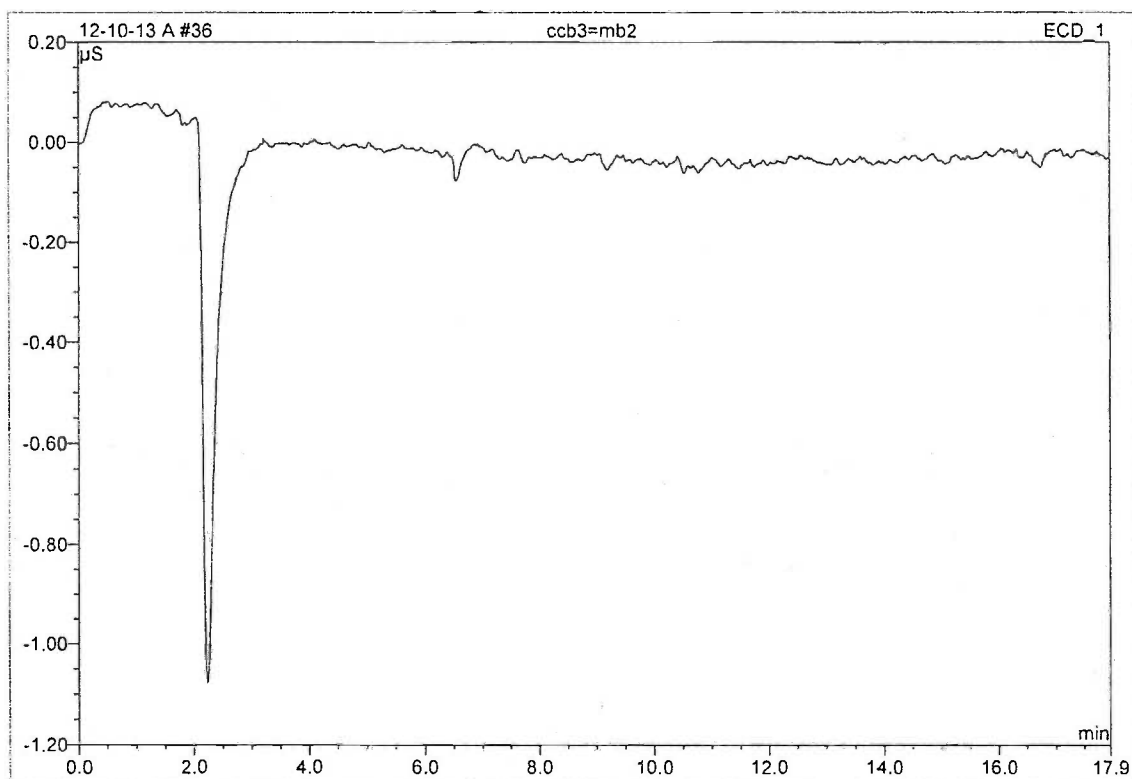
ALAB: 00088

CONFIDENTIAL

LMC-PET-00001362

36 ccb3=mb2

Sample Name:	ccb3=mb2	Injection Volume:	20.0
Vial Number:	650	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	anion_program	Bandwidth:	n.a.
Quantif. Method:	PERCHLORATE METHOD	Dilution Factor:	1.0000
Recording Time:	10/13/2012 17:23	Sample Weight:	1.0000
Run Time (min):	17.94	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

MB

Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB: 000000

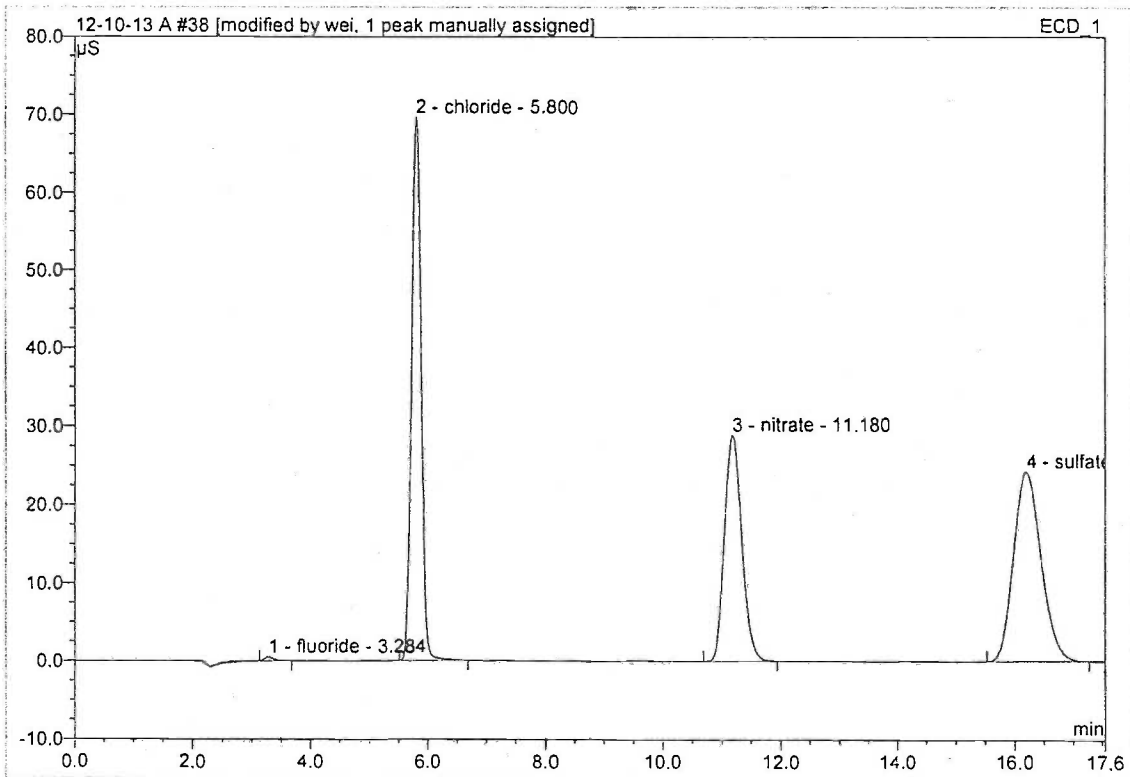
CONFIDENTIAL

LMC-PET-00001363

38 312094-005-5**MW-6 Arcadis/no3**

Sample Name: 312094-005-5
Vial Number: 652
Sample Type: unknown
Control Program: anion_program
Quantif. Method: PERCHLORATE METHOD
Recording Time: 10/13/2012 18:03
Run Time (min): 17.55

Injection Volume: 20.0
Channel: ECD_1
Wavelength: n.a.
Bandwidth: n.a.
Dilution Factor: 1.0000
Sample Weight: 1.0000
Sample Amount: 1.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	0.530	0.098	0.27	0.342	BMB
2	5.80	chloride	69.603	13.053	36.01	47.950	BMB
3	11.18	nitrate	28.782	9.920	27.37	69.574	BMB
4	16.20	sulfate	24.217	13.181	36.36	67.633	BMB^
Total:			123.131	36.252	100.00	185.499	

Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

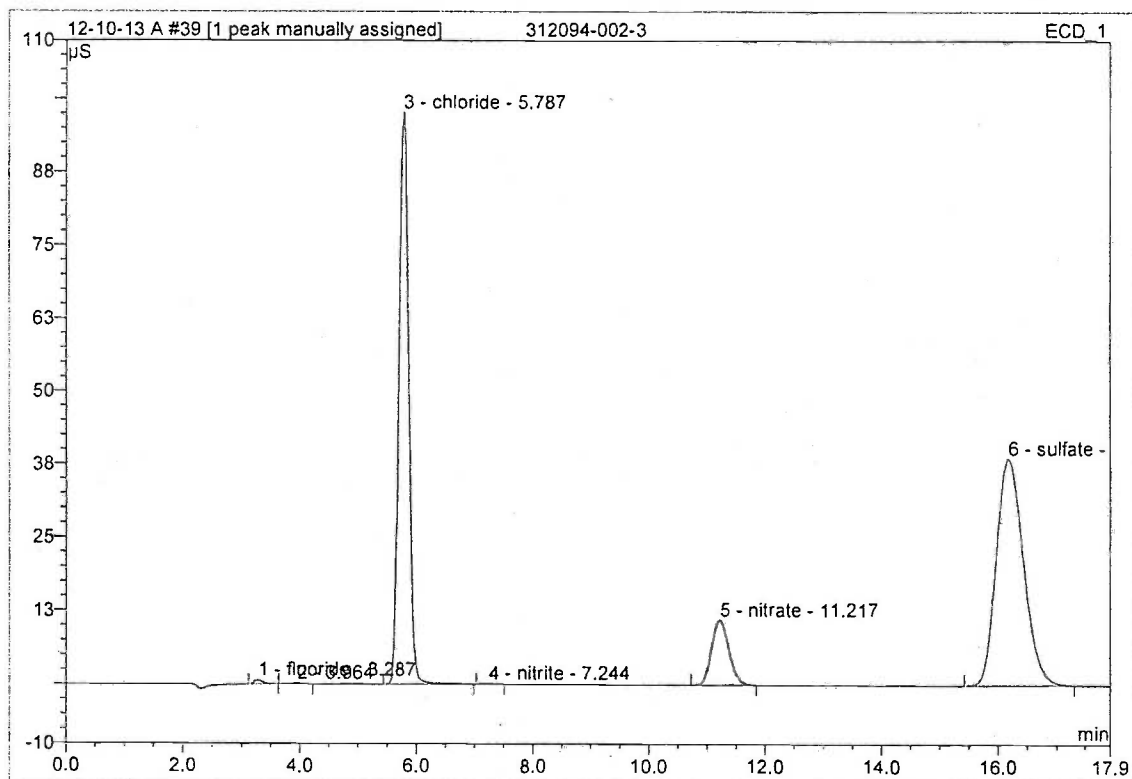
ALAB: 00050

CONFIDENTIAL

LMC-PET-00001364

39 312094-002-3**B-1-CW20 Arcadis f/cl/so4/no3/no2**

Sample Name:	312094-002-3	Injection Volume:	20.0
Vial Number:	653	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	anion_program	Bandwidth:	n.a.
Quantif. Method:	PERCHLORATE METHOD	Dilution Factor:	1.0000
Recording Time:	10/13/2012 18:24	Sample Weight:	1.0000
Run Time (min):	17.93	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.29	fluoride	0.697	0.126	0.29	0.442	BMB
2	3.96	n.a.	0.138	0.029	0.07	n.a.	BMB
3	5.79	chloride	97.633	19.070	43.64	67.320	BMB
4	7.24	nitrite	0.080	0.019	0.04	0.173	BMB
5	11.22	nitrate	10.907	3.752	8.59	30.132	BMB
6	16.18	sulfate	38.366	20.704	47.38	100.133	BMB^
Total:			147.822	43.701	100.00	198.200	

Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB : 00091

CONFIDENTIAL

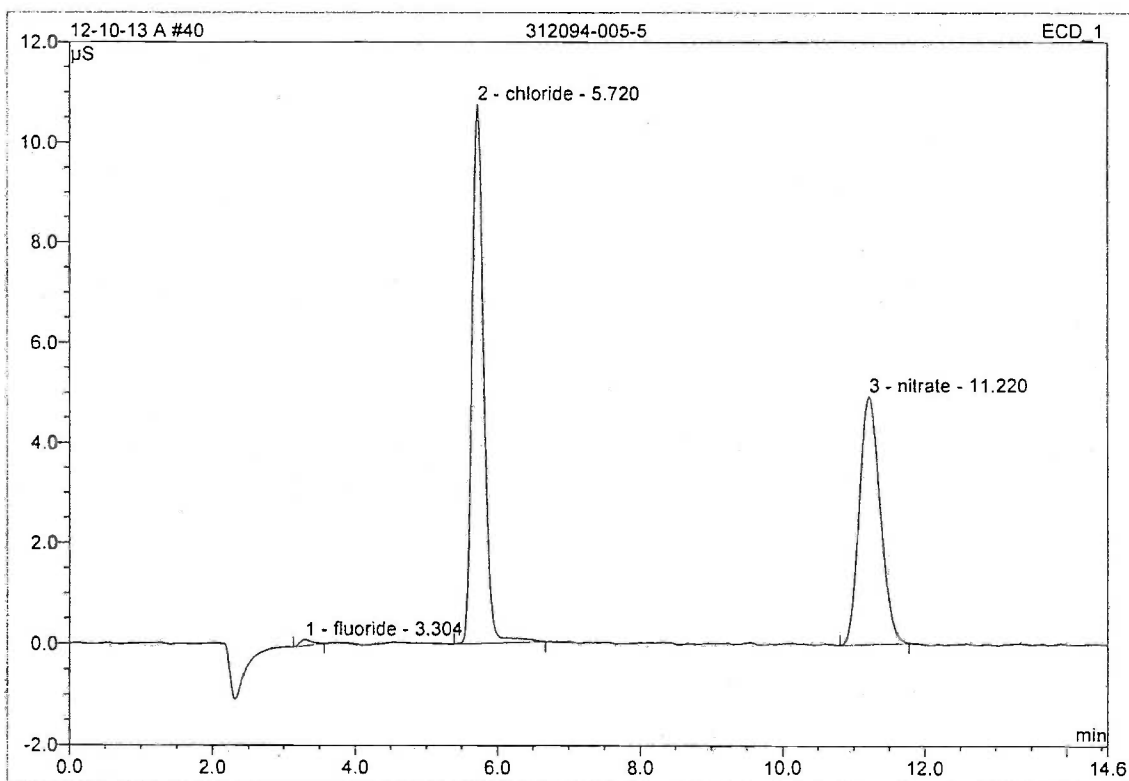
LMC-PET-00001365

40 312094-005-5

rep for no3

Sample Name: 312094-005-5
Vial Number: 654
Sample Type: unknown
Control Program: anion_program
Quantif. Method: PERCHLORATE METHOD
Recording Time: 10/13/2012 18:44
Run Time (min): 14.58

Injection Volume: 20.0
Channel: ECD_1
Wavelength: n.a.
Bandwidth: n.a.
Dilution Factor: 5.0000
Sample Weight: 1.0000
Sample Amount: 1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	3.30	fluoride	0.125	0.024	0.65	0.425	BMB
2	5.72	chloride	10.752	2.037	54.29	40.810	BMB
3	11.22	nitrate	4.920	1.690	45.06	72.030	BMB
Total:			15.797	3.751	100.00	113.265	

Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB : 00092

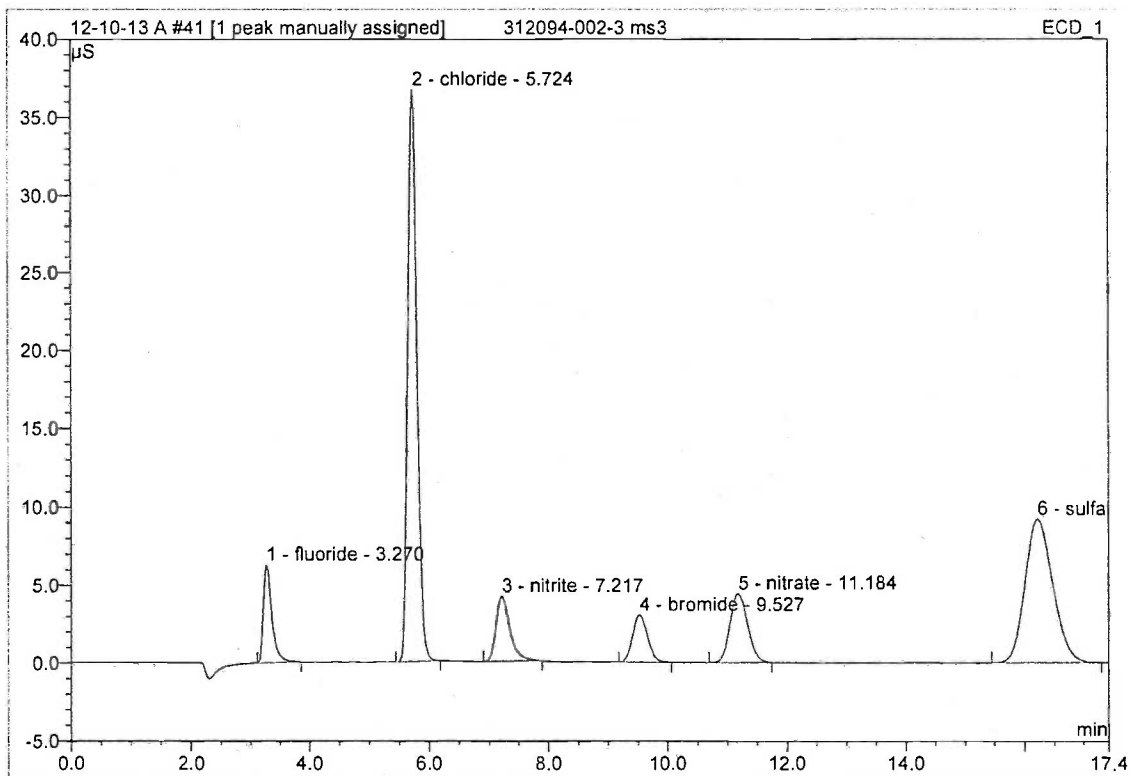
CONFIDENTIAL

LMC-PET-00001366

41 312094-002-3 ms3**ms3**

Sample Name: 312094-002-3 ms3
Vial Number: 655
Sample Type: unknown
Control Program: anion_program
Quantif. Method: PERCHLORATE METHOD
Recording Time: 10/13/2012 19:02
Run Time (min): 17.42

Injection Volume: 20.0
Channel: ECD_1
Wavelength: n.a.
Bandwidth: n.a.
Dilution Factor: 10.0000
Sample Weight: 1.0000
Sample Amount: 1.0000



No.	Ret.Time min	Peak Name	Height μ S	Area μ S*min	Rel.Area %	Amount ppb	Type
1	3.27	fluoride	6.313	1.071	6.65	37.021	BMB
2	5.72	chloride	36.675	6.490	40.29	250.445	BMB
3	7.22	nitrite	4.184	1.144	7.10	98.802	BMB
4	9.53	bromide	3.029	0.880	5.46	97.848	BMB
5	11.18	nitrate	4.437	1.521	9.44	130.335	BMB
6	16.22	sulfate	9.193	5.003	31.06	277.457	BMB^
Total:			63.832	16.108	100.00	891.908	

MS

Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB : 000093

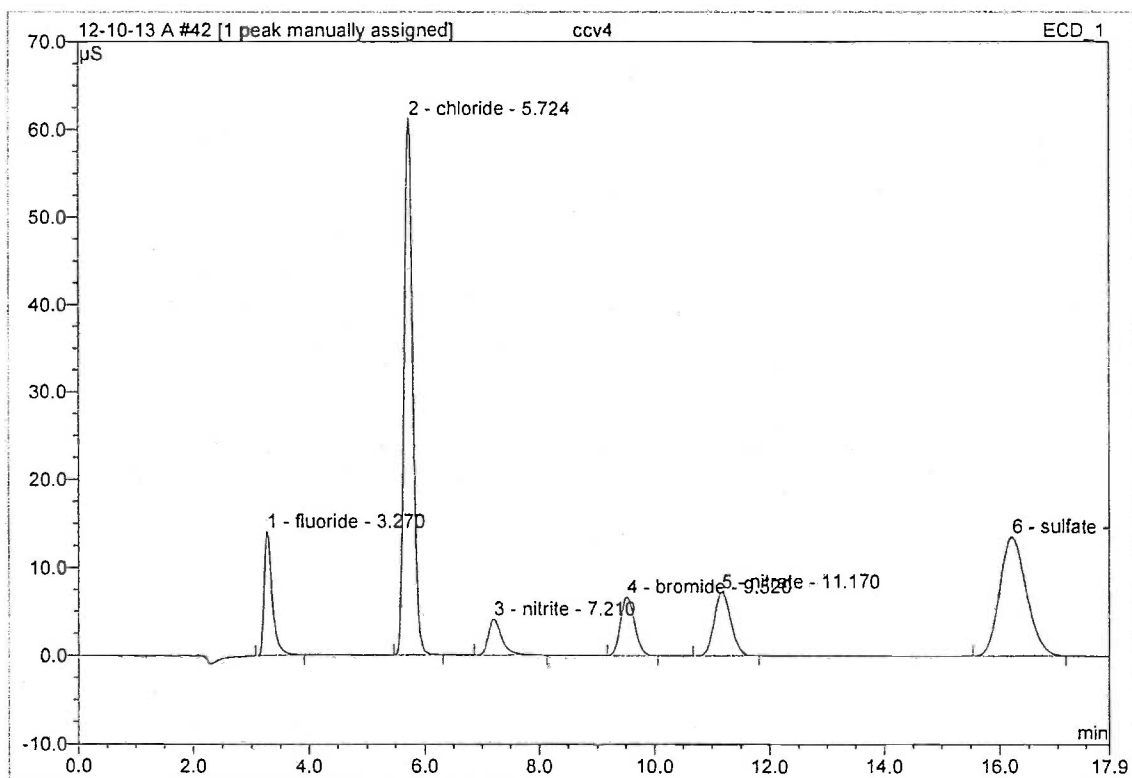
CONFIDENTIAL

LMC-PET-00001367

42 ccv4**f=8 cl=40 no2=10 no3=20 so4=40**

Sample Name: **ccv4**
 Vial Number: **656**
 Sample Type: **unknown**
 Control Program: **anion_program**
 Quantif. Method: **PERCHLORATE METHOD**
 Recording Time: **10/13/2012 19:22**
 Run Time (min): **17.91**

Injection Volume: **20.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **1.0000**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**



No.	Ret.Time min	Peak Name	Height μ S	Area μ S*min	Rel.Area %	Amount ppb	Type
1	3.27	fluoride	14.031	2.296	8.98	7.812	BMB
2	5.72	chloride	61.054	10.644	41.63	39.780	BMB
3	7.21	nitrite	4.080	1.138	4.45	9.834	BMB
4	9.52	bromide	6.637	1.890	7.39	20.319	BMB
5	11.17	nitrate	7.242	2.438	9.54	20.316	BMB
6	16.22	sulfate	13.461	7.162	28.01	38.848	BMB^
Total:			106.505	25.568	100.00	136.909	

Perchlorate/Integration

 Chromeleon (c) Dionex 1996-2001
 Version 6.80 Build 2212

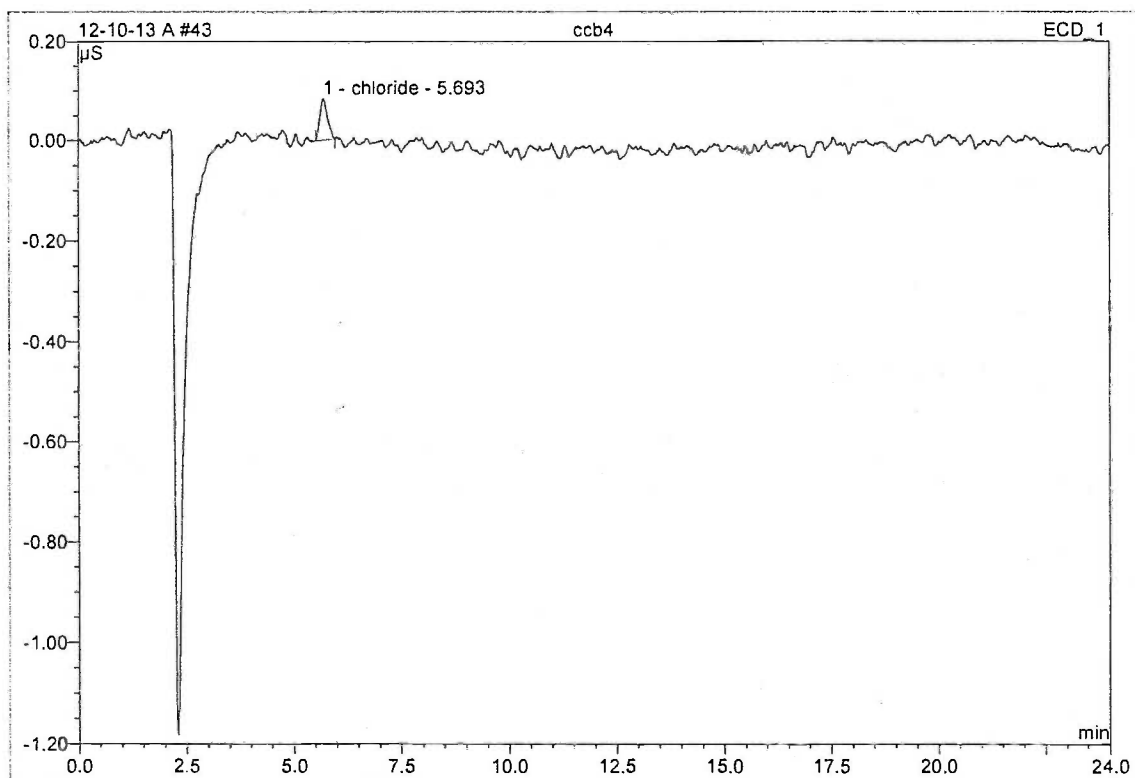
ALAB : 000094

CONFIDENTIAL

LMC-PET-00001368

43 ccb4

Sample Name:	ccb4	Injection Volume:	20.0
Vial Number:	657	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	anion_program	Bandwidth:	n.a.
Quantif. Method:	PERCHLORATE METHOD	Dilution Factor:	1.0000
Recording Time:	10/13/2012 19:42	Sample Weight:	1.0000
Run Time (min):	24.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.69	chloride	0.084	0.017	100.00	0.070	BMB
Total:			0.084	0.017	100.00	0.070	

Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB : 00095

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LMC-PET-00001369

SM4500-HB

pH

ALAB : 00095

CONFIDENTIAL

LMC-PET-00001370

PH

SM 4500-H+B / EPA 150.1

Date	Lab ID #	PH	Temp.	Sigh.	Comments
10/13/2012	B041012 pH 1.68-5	1.61	23.3	De	
	B070612 pH 4-5	4.50	23.2		
	B070612 pH 7-5	7.02	24.0		
	B061412 pH 10-3	10.04	23.5		
	B052212 pH 12.45-3	12.56	22.6		
	DI H ₂ O	6.04	22.2		
	312057/01-2	7.65	22.2		
	02-2	7.69	22.0		
	03-2	7.69	22.0		
	04-2	6.06	22.1		
	312058/01-2	7.16	22.1		
	02-2	6.90	22.2		
	03-2	7.19	22.2		
	04-2	6.02	22.2		
	312060/01-1	6.39	22.2		
	02-1	6.43	22.2		
	Buffer 7.0	7.04	22.4		
	312062/01-1	6.74	22.3		
	02-1	6.33	22.3		
	03-1	6.30	22.2		
	312063/01-1	6.43	22.2		
	312064/01-1	5.96	22.1		
	312065/01-1	6.84	22.1		

112 of 150

ALAB: 00096

PH

SM 4500-H+B / EPA 150.1

Date	Lab ID #	PH	Temp.	Sigh.	Comments
10/13/2012	312066/01-1	6.39	22.0	DL	
	02-1	6.38	22.0		
	Buffer 7.0	7.04	22.2		
✓	312067/01-1	6.49	21.9		
✓	02-1	6.38	22.2		
✓	312068/01-1	6.35	22.2		
✓	02-1	6.54	22.1		
✓	03-1	7.16	22.2		
✓	04-1	2.16	22.2		dup 2.14 T21.8
✓	312081/01-2	6.14	20.2		
✓	02-2	6.70	20.9		
✓	03-3	6.53	22.5		
✓	312088/01-2	6.85	22.8		
	Buffer 7.0	7.04	22.3		
✓	312080/13-5	7.59	22.5		
	14-1	7.62	22.4		
✓	312096-001	7.28	23.1	✓	THE #1 10/12/12
✓	312094-002	7.51	22.9	NI	
	Buffer	7.04	22.4	NI	
✓					

113 of 150

ALAB:00097

SM4500-Si C

ALAB : 00098

CONFIDENTIAL

ALAB : 00098

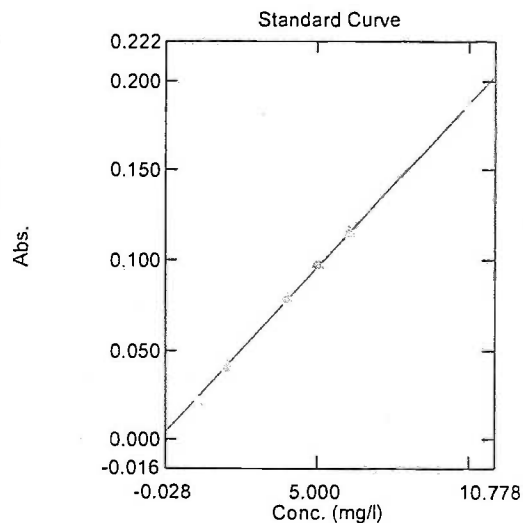
LMC-PET-00001373

312094-002

REACTIVE SILICA

Sample Table

	Sample ID	Type	Ex	Conc	WL410.0	
1	MB	Unknown		-0.199	0.001	
2	ICV	Unknown		2.091	0.043	
3	LCS	Unknown		2.051	0.042	
4	312080 013	Unknown		6.765	0.129	10 MLS
5	080 013MS	Unknown		8.955	0.169	10 MLS
6	080 013MSD	Unknown		8.755	0.165	10 MLS
7	080 014	Unknown		6.252	0.119	10 MLS
8	080 008	Unknown		-0.971	-0.013	NEAT
9	312 002	Unknown		5.520	0.106	10 MLS3
10	311995 010	Unknown		5.913	0.113	10 MLS
11	995 002	Unknown		-0.971	-0.013	NEAT
12	CCV	Unknown		1.858	0.039	
13	CCB	Unknown		-0.465	-0.004	
14						



Wavelengths
Wavelength Name: WL410.0
Wavelength: 410.00 nm

Calibration Curve
Column for Cal. Curve: WL410.0
Cal. Curve Type: Multi Point
Cal. Curve Unit: mg/l
Selected Wavelength: WL410.0
Calibration Equation: $\text{Conc} = K1 * (\text{Abs}) + K0$
Zero Interception: Not Selected

Measurement Parameters(Standard)
Data Acquired by: Instrument
Delay sample read: Disabled

Software Information
Software Name: UVProbe
Version: 2.21
Mode: Normal Mode

Data Information
Filename: C:\Program Files\Shimadzu\UVProbedata
react sio2\sio2 2012\oct 2012
121016SIO2.pho

Title:
Analyst: cmancini
Date/Time: 10/16/2012 12:42:38 PM
Comments:

ALAB : 000000

CONFIDENTIAL

LMC-PET-00001374

Analyst *CM*

Date 10-16-12

Oxalic Acid 0A090412 5102

STD. ID # 550419125102

HCL 1:1 HCL0904/2SiO₂

LCS ID # SLCS 012012 S102

Reducing Reagent none used

Ammonium Molybdate : $\text{AmO}_9\text{O}_{41}\text{Z SiO}_2$

7/12/2011 prep time: 1200

52 of 100

ALAP: 00099 A

EPA 6010B

ICP CAM Metals Only

ALAB : 00100

CONFIDENTIAL

LMC-PET-00001376

Sequence No.: 98
 Sample ID: 312094-002
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 108
 Date Collected: 10/17/2012 4:15:40 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 312094-002

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	69.6	0.0005 mg/L	0.00406	0.0005 mg/L	0.00406	757.19%
Al 308.215	300.9	0.0088 mg/L	0.00988	0.0088 mg/L	0.00988	112.65%
As 188.979	94.3	0.0170 mg/L	0.00366	0.0170 mg/L	0.00366	21.49%
B 249.677	6922.0	0.0783 mg/L	0.00071	0.0783 mg/L	0.00071	0.91%
Ba 233.527	15326.7	0.1488 mg/L	0.00336	0.1488 mg/L	0.00336	2.26%
Be 313.107	-333.4	-0.0002 mg/L	0.00009	-0.0002 mg/L	0.00009	58.20%
Bi 223.061	7.1	0.0033 mg/L	0.00128	0.0033 mg/L	0.00128	38.90%
Bi 190.171	6.6	0.0082 mg/L	0.00311	0.0082 mg/L	0.00311	38.10%
Ca 315.887	200487.5	88.68 mg/L	1.084	88.68 mg/L	1.084	1.22%
Ca 317.933	236920.5	88.23 mg/L	0.078	88.23 mg/L	0.078	0.09%
Cd 214.440	-177.4	-0.0040 mg/L	0.00007	-0.0040 mg/L	0.00007	1.74%
Co 228.616	15.2	0.0006 mg/L	0.00007	0.0006 mg/L	0.00007	11.39%
Cr 267.716	236.6	0.0061 mg/L	0.00021	0.0061 mg/L	0.00021	3.41%
Cu 324.752	342.2	0.0011 mg/L	0.00021	0.0011 mg/L	0.00021	18.17%
Fe 238.204	4223.3	0.1071 mg/L	0.00064	0.1071 mg/L	0.00064	0.60%
Fe 273.955	1789.8	0.1075 mg/L	0.00023	0.1075 mg/L	0.00023	0.21%
K 766.490	13015.0	4.441 mg/L	0.2237	4.441 mg/L	0.2237	5.04%
Mg 279.077	7382.2	30.67 mg/L	0.335	30.67 mg/L	0.335	1.09%
Mn 257.610	6534.1	0.0152 mg/L	0.00059	0.0152 mg/L	0.00059	3.86%
Mo 202.031	60.1	0.0135 mg/L	0.00067	0.0135 mg/L	0.00067	4.96%
Na 589.592	305578.4	46.29 mg/L	0.736	46.29 mg/L	0.736	1.59%
Na 330.237	377.0	48.99 mg/L	1.537	48.99 mg/L	1.537	3.14%
Ni 231.604	-11.1	-0.0006 mg/L	0.00012	-0.0006 mg/L	0.00012	19.87%
Pb 220.353	88.1	0.0045 mg/L	0.00133	0.0045 mg/L	0.00133	29.71%
Sb 206.836	-22.5	-0.0205 mg/L	0.00643	-0.0205 mg/L	0.00643	31.40%
Se 196.026	48.7	0.0062 mg/L	0.01217	0.0062 mg/L	0.01217	195.88%
Sn 189.927	-94.1	-0.0306 mg/L	0.00159	-0.0306 mg/L	0.00159	5.19%
Sr 407.771	247442.5	0.5752 mg/L	0.00932	0.5752 mg/L	0.00932	1.62%
Sr 421.552	139179.2	0.5789 mg/L	0.00932	0.5789 mg/L	0.00932	1.61%
Ti 334.940	2106.9	0.0057 mg/L	0.00025	0.0057 mg/L	0.00025	4.39%
Tl 190.801	-58.9	-0.0107 mg/L	0.00123	-0.0107 mg/L	0.00123	11.59%
V 290.880	457.0	0.0030 mg/L	0.00013	0.0030 mg/L	0.00013	4.44%
W 207.912	12.1	0.0049 mg/L	0.00229	0.0049 mg/L	0.00229	46.60%
Y 371.029	1404.2				92.08	6.56%
Zn 206.200	826.5	0.0562 mg/L	0.00078	0.0562 mg/L	0.00078	1.39%
P 213.617	41.8	0.0307 mg/L	0.00355	0.0307 mg/L	0.00355	11.57%
Si 251.611	475555.7	12.12 mg/L	0.249	12.12 mg/L	0.249	2.06%
Li 670.784	442.5	0.0067 mg/L	0.00226	0.0067 mg/L	0.00226	33.48%
Li 610.362	-1651.5	-0.2392 mg/L	0.06169	-0.2392 mg/L	0.06169	25.79%
S 181.975	9155.2	37.61 mg/L	0.376	37.61 mg/L	0.376	1.00%

ALAB: 00101

Sequence No.: 91
 Sample ID: Method Blank
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 101
 Date Collected: 10/17/2012 3:57:06 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: Method Blank

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Ag 328.068	-91.4	-0.0007 mg/L		0.00025	-0.0007 mg/L		0.00025	35.93%
Al 308.215	-259.6	-0.0076 mg/L		0.00051	-0.0076 mg/L		0.00051	6.68%
As 188.979	-6.1	-0.0011 mg/L		0.00374	-0.0011 mg/L		0.00374	339.83%
B 249.677	-4735.1	-0.0536 mg/L		0.00033	-0.0536 mg/L		0.00033	0.62%
Ba 233.527	-5.5	-0.0001 mg/L		0.00004	-0.0001 mg/L		0.00004	77.64%
Be 313.107	-105.5	0.0000 mg/L		0.00014	0.0000 mg/L		0.00014	298.40%
Bi 223.061	6.2	0.0029 mg/L		0.00422	0.0029 mg/L		0.00422	147.42%
Ca 190.171	0.6	0.0007 mg/L		0.0007	0.0007 mg/L		0.00479	652.33%
Ca 315.887	-19.7	-0.0087 mg/L		0.00186	-0.0087 mg/L		0.00186	21.26%
Ca 317.933	-18.5	-0.0069 mg/L		0.00108	-0.0069 mg/L		0.00108	15.64%
Cd 214.440	-9.4	-0.0002 mg/L		0.00006	-0.0002 mg/L		0.00006	27.83%
Co 228.616	5.4	0.0002 mg/L		0.00022	0.0002 mg/L		0.00022	102.78%
Cr 267.716	2.1	0.0001 mg/L		0.00044	0.0001 mg/L		0.00044	805.03%
Cu 324.752	-250.6	-0.0008 mg/L		0.00027	-0.0008 mg/L		0.00027	31.88%
Fe 238.204	-45.4	-0.0012 mg/L		0.00023	-0.0012 mg/L		0.00023	19.74%
Fe 273.955	65.0	0.0039 mg/L		0.00044	0.0039 mg/L		0.00044	11.22%
K 766.490	349.2	0.1191 mg/L		0.11091	0.1191 mg/L		0.11091	93.09%
Mg 279.077	7.5	0.0311 mg/L		0.02352	0.0311 mg/L		0.02352	75.74%
Mn 257.610	-68.2	-0.0002 mg/L		0.00002	-0.0002 mg/L		0.00002	12.36%
Mo 202.031	-2.2	-0.0005 mg/L		0.00071	-0.0005 mg/L		0.00071	141.62%
Na 589.592	647.1	0.0980 mg/L		0.02944	0.0980 mg/L		0.02944	30.04%
Na 330.237	-7.3	-0.9541 mg/L		1.38971	-0.9541 mg/L		1.38971	145.66%
Ni 231.604	-3.9	-0.0002 mg/L		0.00033	-0.0002 mg/L		0.00033	160.50%
Pb 220.353	8.8	0.0004 mg/L		0.00293	0.0004 mg/L		0.00293	653.81%
Sb 206.836	-13.6	-0.0124 mg/L		0.00265	-0.0124 mg/L		0.00265	21.30%
Se 196.026	-70.9	-0.0091 mg/L		0.01724	-0.0091 mg/L		0.01724	190.52%
Sn 189.927	1.7	0.0006 mg/L		0.00004	0.0006 mg/L		0.00004	7.54%
Sr 407.771	86.3	0.0002 mg/L		0.00007	0.0002 mg/L		0.00007	35.64%
Sr 421.552	3.2	0.0000 mg/L		0.00013	0.0000 mg/L		0.00013	968.31%
Ti 334.940	-98.0	-0.0003 mg/L		0.00014	-0.0003 mg/L		0.00014	53.93%
Tl 190.801	16.3	0.0030 mg/L		0.00069	0.0030 mg/L		0.00069	23.46%
V 290.880	-134.7	-0.0009 mg/L		0.00082	-0.0009 mg/L		0.00082	94.10%
W 207.912	41.4	0.0167 mg/L		0.00223	0.0167 mg/L		0.00223	13.37%
Y 371.029	1583.5						48.25	3.05%
Zn 206.200	2.9	0.0002 mg/L		0.00003	0.0002 mg/L		0.00003	12.96%
P 213.617	14.9	0.0110 mg/L		0.00404	0.0110 mg/L		0.00404	36.83%
Si 251.611	-33.0	-0.0008 mg/L		0.00014	-0.0008 mg/L		0.00014	16.08%
Li 670.784	160.1	0.0024 mg/L		0.00051	0.0024 mg/L		0.00051	20.82%
Li 610.362	96.6	0.0140 mg/L		0.05573	0.0140 mg/L		0.05573	398.49%
S 181.975	2.5	0.0102 mg/L		0.00647	0.0102 mg/L		0.00647	63.56%

ALAB: 00102

Sequence No.: 92
 Sample ID: LCS
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 102
 Date Collected: 10/17/2012 3:59:46 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: LCS

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	132900.3	1.024 mg/L	0.0074	1.024 mg/L	0.0074	0.72%
Al 308.215	71056.6	2.072 mg/L	0.0278	2.072 mg/L	0.0278	1.34%
As 188.979	11726.7	2.118 mg/L	0.0107	2.118 mg/L	0.0107	0.50%
B 249.677	177396.0	2.007 mg/L	0.0165	2.007 mg/L	0.0165	0.82%
Ba 233.527	228124.6	2.215 mg/L	0.0233	2.215 mg/L	0.0233	1.05%
Be 313.107	4835060.2	2.185 mg/L	0.0557	2.185 mg/L	0.0557	2.55%
Bi 223.061	-118.9	-0.0548 mg/L	0.00504	-0.0548 mg/L	0.00504	9.21%
Bi 190.171	4.1	0.0051 mg/L	0.00059	0.0051 mg/L	0.00059	11.66%
Ca 315.887	5033.8	2.227 mg/L	0.0197	2.227 mg/L	0.0197	0.88%
Ca 317.933	5987.3	2.230 mg/L	0.0239	2.230 mg/L	0.0239	1.07%
Cd 214.440	91353.8	2.061 mg/L	0.0184	2.061 mg/L	0.0184	0.89%
Co 228.616	54666.3	2.141 mg/L	0.0072	2.141 mg/L	0.0072	0.34%
Cr 267.716	84369.0	2.186 mg/L	0.0137	2.186 mg/L	0.0137	0.63%
Cu 324.752	650941.7	2.185 mg/L	0.0535	2.185 mg/L	0.0535	2.45%
Fe 238.204	86269.7	2.189 mg/L	0.0233	2.189 mg/L	0.0233	1.06%
Fe 273.955	35870.3	2.154 mg/L	0.0038	2.154 mg/L	0.0038	0.18%
K 766.490	60898.8	20.78 mg/L	0.743	20.78 mg/L	0.743	3.57%
Mg 279.077	553.5	2.300 mg/L	0.0208	2.300 mg/L	0.0208	0.90%
Mn 257.610	969310.0	2.256 mg/L	0.0664	2.256 mg/L	0.0664	2.94%
Mo 202.031	8712.5	1.953 mg/L	0.0213	1.953 mg/L	0.0213	1.09%
Na 589.592	14961.6	2.266 mg/L	0.0692	2.266 mg/L	0.0692	3.05%
Na 330.237	-29.9	-3.890 mg/L	0.2234	-3.890 mg/L	0.2234	5.74%
Ni 231.604	40486.3	2.160 mg/L	0.0176	2.160 mg/L	0.0176	0.81%
Pb 220.353	41797.7	2.126 mg/L	0.0327	2.126 mg/L	0.0327	1.54%
Sb 206.836	2235.8	2.036 mg/L	0.0122	2.036 mg/L	0.0122	0.60%
Se 196.026	15683.0	2.002 mg/L	0.0142	2.002 mg/L	0.0142	0.71%
Sn 189.927	-24.2	-0.0079 mg/L	0.00182	-0.0079 mg/L	0.00182	23.17%
Sr 407.771	859357.0	1.998 mg/L	0.2072	1.998 mg/L	0.2072	10.37%
Sr 421.552	485149.1	2.018 mg/L	0.2092	2.018 mg/L	0.2092	10.36%
Ti 334.940	847895.0	2.303 mg/L	0.0541	2.303 mg/L	0.0541	2.35%
Tl 190.801	11970.5	2.165 mg/L	0.0061	2.165 mg/L	0.0061	0.28%
V 290.880	348675.2	2.257 mg/L	0.0511	2.257 mg/L	0.0511	2.26%
W 207.912	43.5	0.0176 mg/L	0.00053	0.0176 mg/L	0.00053	3.00%
Y 371.029	1411.9				76.29	5.40%
Zn 206.200	31409.4	2.134 mg/L	0.0287	2.134 mg/L	0.0287	1.35%
P 213.617	-3766.4	-2.771 mg/L	0.0730	-2.771 mg/L	0.0730	2.63%
Si 251.611	81639.4	2.081 mg/L	0.0240	2.081 mg/L	0.0240	1.15%
Li 670.784	143847.4	2.193 mg/L	0.0910	2.193 mg/L	0.0910	4.15%
Li 610.362	15436.8	2.235 mg/L	0.0927	2.235 mg/L	0.0927	4.15%
S 181.975	17.6	0.0723 mg/L	0.01359	0.0723 mg/L	0.01359	18.79%

ALAB: 00103

Sequence No.: 94
 Sample ID: MS
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 104
 Date Collected: 10/17/2012 4:05:04 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: MS

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	71011.7	0.5469 mg/L	0.02065	0.5469 mg/L	0.02065	3.78%
Al 308.215	39618.8	1.155 mg/L	0.0610	1.155 mg/L	0.0610	5.28%
As 188.979	5952.0	1.075 mg/L	0.0223	1.075 mg/L	0.0223	2.07%
B 249.677	122594.5	1.387 mg/L	0.0653	1.387 mg/L	0.0653	4.71%
Ba 233.527	135010.1	1.311 mg/L	0.0564	1.311 mg/L	0.0564	4.30%
Be 313.107	2330709.5	1.053 mg/L	0.0289	1.053 mg/L	0.0289	2.74%
Bi 223.061	-38.0	-0.0175 mg/L	0.00354	-0.0175 mg/L	0.00354	20.24%
Bi 190.171	13.2	0.0163 mg/L	0.00114	0.0163 mg/L	0.00114	6.95%
Ca 315.887	285881.8	126.5 mg/L	0.07	126.5 mg/L	0.07	0.05%
Ca 317.933	341042.3	127.0 mg/L	0.49	127.0 mg/L	0.49	0.39%
Cd 214.440	45905.7	1.036 mg/L	0.0364	1.036 mg/L	0.0364	3.51%
Co 228.616	25881.7	1.014 mg/L	0.0376	1.014 mg/L	0.0376	3.71%
Cr 267.716	44163.4	1.144 mg/L	0.0397	1.144 mg/L	0.0397	3.47%
Cu 324.752	311942.9	1.047 mg/L	0.0380	1.047 mg/L	0.0380	3.63%
Fe 238.204	49711.2	1.261 mg/L	0.0516	1.261 mg/L	0.0516	4.09%
Fe 273.955	20560.9	1.235 mg/L	0.0605	1.235 mg/L	0.0605	4.90%
Fe 766.490	49283.5	16.82 mg/L	0.111	16.82 mg/L	0.111	0.66%
G 279.077	8966.8	37.25 mg/L	0.184	37.25 mg/L	0.184	0.49%
H 257.610	448215.8	1.043 mg/L	0.0236	1.043 mg/L	0.0236	2.27%
Mo 202.031	4336.8	0.9723 mg/L	0.00507	0.9723 mg/L	0.00507	0.52%
Na 589.592	285717.2	43.28 mg/L	0.358	43.28 mg/L	0.358	0.83%
Na 330.237	318.7	41.42 mg/L	0.562	41.42 mg/L	0.562	1.36%
Ni 231.604	19364.7	1.033 mg/L	0.0366	1.033 mg/L	0.0366	3.55%
P 220.353	19320.0	0.9826 mg/L	0.00626	0.9826 mg/L	0.00626	0.64%
P 206.836	1076.3	0.9799 mg/L	0.01175	0.9799 mg/L	0.01175	1.20%
P 196.026	7668.4	0.9789 mg/L	0.00782	0.9789 mg/L	0.00782	0.80%
P 189.927	-51.7	-0.0168 mg/L	0.00319	-0.0168 mg/L	0.00319	19.01%
P 407.771	839275.4	1.951 mg/L	0.0382	1.951 mg/L	0.0382	1.96%
P 421.552	473196.2	1.968 mg/L	0.0347	1.968 mg/L	0.0347	1.76%
P 334.940	403804.3	1.097 mg/L	0.0372	1.097 mg/L	0.0372	3.39%
P 190.801	5484.4	0.9919 mg/L	0.00168	0.9919 mg/L	0.00168	0.17%
P 290.880	170121.2	1.101 mg/L	0.0441	1.101 mg/L	0.0441	4.01%
P 207.912	29.4	0.0119 mg/L	0.00062	0.0119 mg/L	0.00062	5.20%
P 371.029	1543.0					
P 206.200	18439.3	1.253 mg/L	0.0481	1.253 mg/L	0.0481	9.04%
P 13.617	-1658.2	-1.220 mg/L	0.0048	-1.220 mg/L	0.0048	3.84%
P 251.611	541051.4	13.79 mg/L	0.196	13.79 mg/L	0.196	0.40%
P 670.784	71183.6	1.085 mg/L	0.0228	1.085 mg/L	0.0228	1.42%
P 610.362	5835.9	0.8451 mg/L	0.04375	0.8451 mg/L	0.04375	2.10%
P 81.975	9002.1	36.98 mg/L	0.117	36.98 mg/L	0.117	5.18%
						0.32%

ALAB: 00104

Associated Labs QCBatch BenchSheet

QCBatchID: QC1130599

Created Date: 10/17/2012 14:22

Created By: Nina

Matrix: Water

Instrument: AALCP (group)
PrepMethod: Solu A
PrepDate:
PrepBy:

Test: 200.7 Alab
Method: EPA 200.7
AnalysisDate: 10/17/2012 00:00
Analyst:

#	eq	Sample ID	QC	Customer	Sample ID	QC Source	Sur. Added	Spk. Added	Init. Wt/Vol	Final Vol.	Extraction Date	Time	Comments
		Method Blank	1						25ml	25ml			10/16/12-12 hr-3:50 PM
		LCS	1										
#1		311995-010		B1CW17			22	clear					
		MS	1		311995-010								
#1		312080-008		Equipment Blank									
#3		312080-013		B-1-CW12									
#2		312080-014		B-1-CW12 Duplicate									
#4		312094-002		B-1-CW20									

311995-002

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InitialCalbSTD: Ca(210081119)_Sep2015, Mg(b8095018-1A)Sep20
 CalibCheckSTD: Sn(1115117)_Jan2013, W(1103408)_Jan2013
 InternalSTD: K(210125007)-Dec2015, Na(211025031)_Feb2016
 SurrogateSTD: Bi(1101109)_Jan2013, Si(1102515)_Jan2013
 LCSSTD: QC21(1201016)-Feb.2013, QC7(1204808)Feb.201 0.5ml of QC7,2/
 MSSTD: 50PPM(6-15-12) 0.5ml of 50ppm

Solvent Manufacturer and Lot: HCL #4411060
 Sand Manufacturer and Lot: H2O3 #112040
 Na2SO4 Manufacturer and Lot:
 Surrogate Lot:
 Spike Lot:
 Prep By Signature:

Sequence No.: 68
 Sample ID: 312094-003
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 86
 Date Collected: 10/17/2012 2:51:01 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 312094-003

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	46.0	0.0004	mg/L	0.00001	0.0004	mg/L	0.00001	3.11%
Al 308.215	407.2	0.0119	mg/L	0.00468	0.0119	mg/L	0.00468	39.42%
As 188.979	106.2	0.0192	mg/L	0.00114	0.0192	mg/L	0.00114	5.95%
B 249.677	22919.2	0.2593	mg/L	0.00094	0.2593	mg/L	0.00094	0.36%
Ba 233.527	16724.4	0.1624	mg/L	0.00135	0.1624	mg/L	0.00135	0.83%
Be 313.107	-492.3	-0.0002	mg/L	0.00010	-0.0002	mg/L	0.00010	46.07%
Bi 223.061	24.1	0.0111	mg/L	0.00005	0.0111	mg/L	0.00005	0.45%
Bi 190.171	14.6	0.0180	mg/L	0.00577	0.0180	mg/L	0.00577	31.99%
Ca 315.887	305307.4	150.6	mg/L	11.55	150.6	mg/L	11.55	7.67%
Ca 317.933	361385.3	150.8	mg/L	11.76	150.8	mg/L	11.76	7.80%
Cd 214.440	-175.5	-0.0040	mg/L	0.00004	-0.0040	mg/L	0.00004	1.03%
Co 228.616	14.6	0.0006	mg/L	0.00002	0.0006	mg/L	0.00002	3.53%
Cr 267.716	141.2	0.0037	mg/L	0.00004	0.0037	mg/L	0.00004	1.14%
Cu 324.752	667.0	0.0022	mg/L	0.00005	0.0022	mg/L	0.00005	2.09%
Fe 238.204	641.4	0.0163	mg/L	0.00036	0.0163	mg/L	0.00036	2.22%
Fe 273.955	279.1	0.0168	mg/L	0.00051	0.0168	mg/L	0.00051	3.02%
K 766.490	18038.9	6.830	mg/L	0.5191	6.830	mg/L	0.5191	7.60%
Mg 279.077	7706.2	34.44	mg/L	0.384	34.44	mg/L	0.384	1.12%
Mn 257.610	832.2	0.0019	mg/L	0.00003	0.0019	mg/L	0.00003	1.38%
Mo 202.031	36.8	0.0082	mg/L	0.00025	0.0082	mg/L	0.00025	3.02%
Na 589.592	251379.1	42.32	mg/L	3.310	42.32	mg/L	3.310	7.82%
Na 330.237	304.8	42.15	mg/L	0.075	42.15	mg/L	0.075	0.18%
Ni 231.604	13.0	0.0007	mg/L	0.00035	0.0007	mg/L	0.00035	50.10%
Pb 220.353	96.2	0.0049	mg/L	0.00116	0.0049	mg/L	0.00116	23.72%
Sb 206.836	-22.9	-0.0209	mg/L	0.00589	-0.0209	mg/L	0.00589	28.25%
Se 196.026	-24.5	-0.0031	mg/L	0.00952	-0.0031	mg/L	0.00952	305.03%
Sn 189.927	-99.0	-0.0322	mg/L	0.00037	-0.0322	mg/L	0.00037	1.16%
Sr 407.771	465892.7	1.083	mg/L	0.0882	1.083	mg/L	0.0882	8.14%
Sr 421.552	264025.8	1.098	mg/L	0.0847	1.098	mg/L	0.0847	7.72%
Ti 334.940	1956.3	0.0053	mg/L	0.00014	0.0053	mg/L	0.00014	2.55%
Tl 190.801	-88.4	-0.0160	mg/L	0.00383	-0.0160	mg/L	0.00383	23.95%
V 290.880	-13.7	-0.0001	mg/L	0.00029	-0.0001	mg/L	0.00029	328.20%
W 207.912	20.7	0.0084	mg/L	0.00128	0.0084	mg/L	0.00128	15.27%
Y 371.029	1419.6						13.60	0.96%
Zn 206.200	7154.1	0.4861	mg/L	0.00487	0.4861	mg/L	0.00487	1.00%
P 213.617	34.3	0.0252	mg/L	0.00958	0.0252	mg/L	0.00958	38.04%
Si 251.611	496350.3	12.65	mg/L	0.115	12.65	mg/L	0.115	0.91%
Li 670.784	338.7	0.0052	mg/L	0.00686	0.0052	mg/L	0.00686	132.92%
Li 610.362	-2587.4	-0.3747	mg/L	0.00405	-0.3747	mg/L	0.00405	1.08%
S 181.975	5286.6	21.72	mg/L	0.398	21.72	mg/L	0.398	1.83%

ALAB: 00106

Sequence No.: 69
 Sample ID: 312094-004
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 87
 Date Collected: 10/17/2012 2:53:37 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 312094-004

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-12.0	-0.0001	mg/L	0.00031	-0.0001	mg/L	0.00031	334.48%
Al 308.215	218.3	0.0064	mg/L	0.00488	0.0064	mg/L	0.00488	76.62%
As 188.979	78.1	0.0141	mg/L	0.00509	0.0141	mg/L	0.00509	36.04%
B 249.677	12254.9	0.1386	mg/L	0.00176	0.1386	mg/L	0.00176	1.27%
Ba 233.527	12195.7	0.1184	mg/L	0.00116	0.1184	mg/L	0.00116	0.98%
Be 313.107	-90.1	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	54.37%
Bi 223.061	19.1	0.0088	mg/L	0.00154	0.0088	mg/L	0.00154	17.50%
Bi 190.171	17.0	0.0210	mg/L	0.00293	0.0210	mg/L	0.00293	13.94%
Ca 315.887	201816.2	99.58	mg/L	2.791	99.58	mg/L	2.791	2.80%
Ca 317.933	240109.2	100.2	mg/L	2.62	100.2	mg/L	2.62	2.62%
Cd 214.440	-181.6	-0.0041	mg/L	0.00011	-0.0041	mg/L	0.00011	2.71%
Co 228.616	23.7	0.0009	mg/L	0.00041	0.0009	mg/L	0.00041	43.76%
Cr 267.716	78.3	0.0020	mg/L	0.00006	0.0020	mg/L	0.00006	2.78%
Cu 324.752	200.8	0.0007	mg/L	0.00003	0.0007	mg/L	0.00003	4.09%
Fe 238.204	2964.4	0.0752	mg/L	0.00095	0.0752	mg/L	0.00095	1.27%
Fe 273.955	1251.5	0.0752	mg/L	0.00146	0.0752	mg/L	0.00146	1.95%
K 766.490	15879.0	6.012	mg/L	0.1765	6.012	mg/L	0.1765	2.94%
Mg 279.077	5507.0	24.61	mg/L	0.177	24.61	mg/L	0.177	0.72%
Mn 257.610	3619.3	0.0084	mg/L	0.00008	0.0084	mg/L	0.00008	0.89%
Mo 202.031	32.4	0.0073	mg/L	0.00135	0.0073	mg/L	0.00135	18.59%
Na 589.592	226987.8	38.21	mg/L	0.835	38.21	mg/L	0.835	2.19%
Na 330.237	256.8	35.51	mg/L	0.630	35.51	mg/L	0.630	1.77%
Ni 231.604	-3.4	-0.0002	mg/L	0.00027	-0.0002	mg/L	0.00027	145.15%
Pb 220.353	71.5	0.0036	mg/L	0.00228	0.0036	mg/L	0.00228	62.81%
Sb 206.836	-16.6	-0.0151	mg/L	0.00004	-0.0151	mg/L	0.00004	0.26%
Se 196.026	-88.0	-0.0112	mg/L	0.01439	-0.0112	mg/L	0.01439	128.05%
Sn 189.927	-96.1	-0.0312	mg/L	0.00085	-0.0312	mg/L	0.00085	2.73%
Sr 407.771	304535.9	0.7080	mg/L	0.01206	0.7080	mg/L	0.01206	1.70%
Sr 421.552	171184.3	0.7120	mg/L	0.01683	0.7120	mg/L	0.01683	2.36%
Ti 334.940	1857.2	0.0050	mg/L	0.00071	0.0050	mg/L	0.00071	14.06%
Tl 190.801	-73.0	-0.0132	mg/L	0.00597	-0.0132	mg/L	0.00597	45.17%
V 290.880	324.8	0.0021	mg/L	0.00090	0.0021	mg/L	0.00090	42.99%
W 207.912	16.7	0.0068	mg/L	0.00124	0.0068	mg/L	0.00124	18.34%
Y 371.029	1596.3						145.90	9.14%
Zn 206.200	3419.5	0.2323	mg/L	0.00313	0.2323	mg/L	0.00313	1.35%
P 213.617	40.7	0.0299	mg/L	0.00900	0.0299	mg/L	0.00900	30.08%
Si 251.611	542079.4	13.82	mg/L	0.027	13.82	mg/L	0.027	0.19%
Li 670.784	448.3	0.0068	mg/L	0.00353	0.0068	mg/L	0.00353	51.67%
Li 610.362	-1350.6	-0.1956	mg/L	0.02223	-0.1956	mg/L	0.02223	11.37%
S 181.975	5294.1	21.75	mg/L	0.340	21.75	mg/L	0.340	1.56%

ALAB: 00107

Sequence No.: 70
 Sample ID: 312094-005
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 88
 Date Collected: 10/17/2012 2:56:13 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 312094-005

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Ag 328.068	50.2	0.0004 mg/L		0.00046	0.0004 mg/L	0.00046	118.24%
Al 308.215	585.3	0.0171 mg/L		0.00340	0.0171 mg/L	0.00340	19.93%
As 188.979	74.8	0.0135 mg/L		0.00197	0.0135 mg/L	0.00197	14.60%
B 249.677	10638.2	0.1203 mg/L		0.00110	0.1203 mg/L	0.00110	0.91%
Ba 233.527	14526.6	0.1410 mg/L		0.00175	0.1410 mg/L	0.00175	1.24%
Be 313.107	-439.2	-0.0002 mg/L		0.00000	-0.0002 mg/L	0.00000	0.04%
Bi 223.061	11.2	0.0052 mg/L		0.00691	0.0052 mg/L	0.00691	133.96%
Bi 190.171	13.5	0.0167 mg/L		0.00937	0.0167 mg/L	0.00937	56.16%
Ca 315.887	234184.3	115.5 mg/L		0.98	115.5 mg/L	0.98	0.85%
Ca 317.933	276960.7	115.6 mg/L		0.36	115.6 mg/L	0.36	0.31%
Cd 214.440	-192.0	-0.0043 mg/L		0.00006	-0.0043 mg/L	0.00006	1.45%
Co 228.616	9.8	0.0004 mg/L		0.00044	0.0004 mg/L	0.00044	113.78%
Cr 267.716	195.1	0.0051 mg/L		0.00003	0.0051 mg/L	0.00003	0.58%
Cu 324.752	260.5	0.0009 mg/L		0.00099	0.0009 mg/L	0.00099	112.96%
Fe 238.204	354.5	0.0090 mg/L		0.00028	0.0090 mg/L	0.00028	3.13%
Fe 273.955	163.7	0.0098 mg/L		0.00050	0.0098 mg/L	0.00050	5.07%
K 766.490	15809.7	5.986 mg/L		0.0196	5.986 mg/L	0.0196	0.33%
Mg 279.077	7493.7	33.49 mg/L		0.254	33.49 mg/L	0.254	0.76%
Mn 257.610	237.6	0.0006 mg/L		0.00001	0.0006 mg/L	0.00001	1.70%
Mo 202.031	33.2	0.0074 mg/L		0.00036	0.0074 mg/L	0.00036	4.84%
Na 589.592	245291.9	41.29 mg/L		0.263	41.29 mg/L	0.263	0.64%
Na 330.237	317.9	43.95 mg/L		0.230	43.95 mg/L	0.230	0.52%
Ni 231.604	12.0	0.0006 mg/L		0.00050	0.0006 mg/L	0.00050	78.49%
Pb 220.353	60.8	0.0031 mg/L		0.00092	0.0031 mg/L	0.00092	29.69%
Sb 206.836	-16.1	-0.0146 mg/L		0.00631	-0.0146 mg/L	0.00631	43.14%
Se 196.026	9.8	0.0013 mg/L		0.00011	0.0013 mg/L	0.00011	8.45%
Sn 189.927	-96.2	-0.0313 mg/L		0.00262	-0.0313 mg/L	0.00262	8.39%
Sr 407.771	339820.8	0.7900 mg/L		0.00076	0.7900 mg/L	0.00076	0.10%
Sr 421.552	191863.7	0.7981 mg/L		0.00086	0.7981 mg/L	0.00086	0.11%
Ti 334.940	2158.3	0.0059 mg/L		0.00036	0.0059 mg/L	0.00036	6.19%
Tl 190.801	-81.0	-0.0147 mg/L		0.00048	-0.0147 mg/L	0.00048	3.30%
V 290.880	94.3	0.0006 mg/L		0.00259	0.0006 mg/L	0.00259	425.82%
W 207.912	12.1	0.0049 mg/L		0.00131	0.0049 mg/L	0.00131	26.72%
Y 371.029	1454.1					129.35	8.90%
Zn 206.200	1928.7	0.1310 mg/L		0.00091	0.1310 mg/L	0.00091	0.69%
P 213.617	37.8	0.0278 mg/L		0.00523	0.0278 mg/L	0.00523	18.80%
Si 251.611	538992.0	13.74 mg/L		0.045	13.74 mg/L	0.045	0.32%
Li 670.784	327.2	0.0050 mg/L		0.00026	0.0050 mg/L	0.00026	5.15%
Li 610.362	-2417.4	-0.3501 mg/L		0.08192	-0.3501 mg/L	0.08192	23.40%
S 181.975	5919.4	24.32 mg/L		0.105	24.32 mg/L	0.105	0.43%

ALAB: 00108

Sequence No.: 71
 Sample ID: 312094-006
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 89
 Date Collected: 10/17/2012 2:58:49 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 312094-006

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	53.5	0.0004	mg/L	0.00036	0.0004	mg/L	0.00036 87.18%
Al 308.215	191.3	0.0056	mg/L	0.00299	0.0056	mg/L	0.00299 53.50%
As 188.979	125.8	0.0227	mg/L	0.00372	0.0227	mg/L	0.00372 16.37%
B 249.677	13282.1	0.1502	mg/L	0.00016	0.1502	mg/L	0.00016 0.11%
Ba 233.527	12397.8	0.1204	mg/L	0.00004	0.1204	mg/L	0.00004 0.03%
Be 313.107	105.4	0.0000	mg/L	0.00016	0.0000	mg/L	0.00016 343.95%
Bi 223.061	9.9	0.0046	mg/L	0.00564	0.0046	mg/L	0.00564 123.58%
Bi 190.171	17.7	0.0219	mg/L	0.00221	0.0219	mg/L	0.00221 10.11%
Ca 315.887	195819.1	96.62	mg/L	1.488	96.62	mg/L	1.488 1.54%
Ca 317.933	231442.6	96.60	mg/L	1.798	96.60	mg/L	1.798 1.86%
Cd 214.440	-193.8	-0.0044	mg/L	0.00000	-0.0044	mg/L	0.00000 0.01%
Co 228.616	22.7	0.0009	mg/L	0.00029	0.0009	mg/L	0.00029 32.18%
Cr 267.716	77.9	0.0020	mg/L	0.00010	0.0020	mg/L	0.00010 4.82%
Cu 324.752	333.8	0.0011	mg/L	0.00012	0.0011	mg/L	0.00012 10.61%
Fe 238.204	2534.2	0.0643	mg/L	0.00003	0.0643	mg/L	0.00003 0.05%
Fe 273.955	1059.0	0.0636	mg/L	0.00004	0.0636	mg/L	0.00004 0.07%
K 766.490	15692.7	5.941	mg/L	0.3734	5.941	mg/L	0.3734 6.29%
Mg 279.077	5830.8	26.06	mg/L	0.054	26.06	mg/L	0.054 0.21%
Mn 257.610	2374.2	0.0055	mg/L	0.00002	0.0055	mg/L	0.00002 0.29%
Mo 202.031	28.3	0.0063	mg/L	0.00038	0.0063	mg/L	0.00038 6.04%
Na 589.592	221639.3	37.31	mg/L	0.234	37.31	mg/L	0.234 0.63%
Na 330.237	276.9	38.30	mg/L	0.586	38.30	mg/L	0.586 1.53%
Ni 231.604	317.2	0.0169	mg/L	0.00038	0.0169	mg/L	0.00038 2.27%
Pb 220.353	103.8	0.0053	mg/L	0.00164	0.0053	mg/L	0.00164 31.03%
Sb 206.836	-16.1	-0.0147	mg/L	0.00174	-0.0147	mg/L	0.00174 11.86%
Se 196.026	9.2	0.0012	mg/L	0.00087	0.0012	mg/L	0.00087 73.59%
Sn 189.927	-96.0	-0.0312	mg/L	0.00154	-0.0312	mg/L	0.00154 4.94%
Sr 407.771	303687.8	0.7060	mg/L	0.00127	0.7060	mg/L	0.00127 0.18%
Sr 421.552	170544.2	0.7094	mg/L	0.00590	0.7094	mg/L	0.00590 0.83%
Ti 334.940	1753.7	0.0048	mg/L	0.00028	0.0048	mg/L	0.00028 5.91%
Tl 190.801	-52.7	-0.0095	mg/L	0.00078	-0.0095	mg/L	0.00078 8.16%
V 290.880	76.3	0.0005	mg/L	0.00208	0.0005	mg/L	0.00208 425.69%
W 207.912	21.4	0.0086	mg/L	0.00252	0.0086	mg/L	0.00252 29.16%
Y 371.029	1253.9						248.52 19.82%
Zn 206.200	4718.5	0.3206	mg/L	0.00056	0.3206	mg/L	0.00056 0.17%
P 213.617	35.0	0.0258	mg/L	0.00035	0.0258	mg/L	0.00035 1.34%
Si 251.611	535823.1	13.66	mg/L	0.053	13.66	mg/L	0.053 0.39%
Li 670.784	-378.9	-0.0058	mg/L	0.00912	-0.0058	mg/L	0.00912 157.88%
Li 610.362	-1067.5	-0.1546	mg/L	0.16603	-0.1546	mg/L	0.16603 107.40%
S 181.975	5522.6	22.69	mg/L	0.110	22.69	mg/L	0.110 0.49%

ALAB: 00109

Sequence No.: 72
 Sample ID: 312094-007
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 90
 Date Collected: 10/17/2012 3:01:25 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 312094-007

Analyte	Mean Corrected Intensity	Conc. Units	Calib Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-62.1	-0.0005 mg/L	0.00005	-0.0005 mg/L	0.00005	10.81%
Al 308.215	104.6	0.0030 mg/L	0.00349	0.0030 mg/L	0.00349	114.38%
As 188.979	81.9	0.0148 mg/L	0.00253	0.0148 mg/L	0.00253	17.11%
B 249.677	9025.5	0.1021 mg/L	0.00162	0.1021 mg/L	0.00162	1.58%
Ba 233.527	20989.0	0.2038 mg/L	0.00436	0.2038 mg/L	0.00436	2.14%
Be 313.107	-669.4	-0.0003 mg/L	0.00012	-0.0003 mg/L	0.00012	39.89%
Bi 223.061	35.6	0.0164 mg/L	0.00073	0.0164 mg/L	0.00073	4.47%
Bi 190.171	20.3	0.0250 mg/L	0.00313	0.0250 mg/L	0.00313	12.51%
Ca 315.887	417642.0	206.1 mg/L	1.69	206.1 mg/L	1.69	0.82%
Ca 317.933	496068.2	207.0 mg/L	2.02	207.0 mg/L	2.02	0.98%
Cd 214.440	-193.3	-0.0044 mg/L	0.00005	-0.0044 mg/L	0.00005	1.16%
Co 228.616	32.9	0.0013 mg/L	0.00001	0.0013 mg/L	0.00001	0.91%
Cr 267.716	249.4	0.0065 mg/L	0.00010	0.0065 mg/L	0.00010	1.62%
Cu 324.752	563.3	0.0019 mg/L	0.00129	0.0019 mg/L	0.00129	68.12%
Fe 238.204	1981.4	0.0503 mg/L	0.00033	0.0503 mg/L	0.00033	0.65%
Fe 273.955	801.6	0.0481 mg/L	0.00023	0.0481 mg/L	0.00023	0.48%
K 766.490	20390.7	7.720 mg/L	0.2315	7.720 mg/L	0.2315	3.00%
Mg 279.077	12690.2	56.71 mg/L	0.249	56.71 mg/L	0.249	0.44%
Mn 257.610	3984.7	0.0093 mg/L	0.00001	0.0093 mg/L	0.00001	0.08%
Mo 202.031	43.5	0.0098 mg/L	0.00011	0.0098 mg/L	0.00011	1.11%
Na 589.592	274939.3	46.28 mg/L	0.503	46.28 mg/L	0.503	1.09%
Na 330.237	345.5	47.77 mg/L	0.115	47.77 mg/L	0.115	0.24%
Ni 231.604	3687.1	0.1967 mg/L	0.00085	0.1967 mg/L	0.00085	0.43%
Pb 220.353	60.5	0.0031 mg/L	0.00100	0.0031 mg/L	0.00100	32.33%
Sb 206.836	-29.3	-0.0267 mg/L	0.00204	-0.0267 mg/L	0.00204	7.62%
Se 196.026	-45.7	-0.0058 mg/L	0.02555	-0.0058 mg/L	0.02555	437.72%
Sn 189.927	-120.7	-0.0392 mg/L	0.00190	-0.0392 mg/L	0.00190	4.84%
Sr 407.771	611801.6	1.422 mg/L	0.0147	1.422 mg/L	0.0147	1.03%
Sr 421.552	342645.6	1.425 mg/L	0.0084	1.425 mg/L	0.0084	0.59%
Ti 334.940	2455.1	0.0067 mg/L	0.00045	0.0067 mg/L	0.00045	6.81%
Tl 190.801	-88.7	-0.0160 mg/L	0.00517	-0.0160 mg/L	0.00517	32.23%
V 290.880	-201.5	-0.0013 mg/L	0.00171	-0.0013 mg/L	0.00171	130.92%
W 207.912	13.7	0.0056 mg/L	0.00043	0.0056 mg/L	0.00043	7.76%
Y 371.029	1648.4				293.97	17.83%
Zn 206.200	2771.8	0.1883 mg/L	0.00110	0.1883 mg/L	0.00110	0.58%
P 213.617	30.1	0.0221 mg/L	0.00630	0.0221 mg/L	0.00630	28.51%
Si 251.611	506738.2	12.92 mg/L	0.396	12.92 mg/L	0.396	3.06%
Li 670.784	197.1	0.0030 mg/L	0.00256	0.0030 mg/L	0.00256	85.14%
Li 610.362	-2356.6	-0.3413 mg/L	0.09144	-0.3413 mg/L	0.09144	26.79%
S 181.975	14381.2	59.08 mg/L	0.340	59.08 mg/L	0.340	0.58%

ALAB: 00110

User canceled analysis.

ALAB:00111

CONFIDENTIAL

LMC-PET-00001387

Associated Labs QCBatch BenchSheet

QCBatchID: QC1130591

Created Date: 10/17/2012 11:27
Created By: metha
Matrix: Water

Instrument: AAICP (group)
Prep Method: EPA 3010A/Filtered
Prep Date:
Prep By: metha

Test: 6010 Alab
Method: EPA 6010B
Analysis Date: 10/17/2012 00:00
Analysis:
Analyst:
Comments:
Date: 10/16/12 - 12:00 PM - 3:30 PM

Seq #	Sample ID	QC #	Customer Sample ID	QC Source	Surf. Added	Spk. Added	Int. Wt/Vol	Final Vol.	Extraction Date	Time	Comments
0	Method Blank	1									
1	LCS	1									
2	311877-003		3850N								
3	MS	1									
4	MSD	1									
5	312080-003		MMW-1								
6	312080-004		MMW-2								
7	312080-005		C-1-CW03								
8	312080-006		C-1-CW02								
9	312080-008		Equipment Blank								
10	312080-009		B-5-CW03								
11	312080-010		B5-CW03 Duplicate								
12	312080-013		B-1-CW12								
13	312080-015		MMW-3								
14	312094-003		C-1-CW06								
15	312094-004		B-5-CW02								
16	312094-005		M-W-6								
17	312094-006		C-1-CW08								
18	312094-007		3871G								

Initial Calib STD: Ca(210081119)_Sep2015, Mg(b8095018-1A)Sep20
Calib Check STD: Sn(11151117)_Jan2013, W(1103408)_Jan2013
Internal STD: K(210125007)-Dec2015, Na(21025031)_Feb2016
Surrogate STD: Bi(1101109)_Jan2013, Sr(1102515)_Jan2013
LCS STD: QC21(1201016)-Feb.2013, QC7(1204808)Feb.201
MSS STD: 50PPM(6-15-12) 0.5 and 0.50 ppm

Solvent Manufacturer and Lot:
Sand Manufacturer and Lot:
Na2SO4 Manufacturer and Lot:
Surrogate Lot:
Spike Lot:
Prep By Signature:
HCL # 911060
H2O3 # 111240

Sequence No.: 51

Sample ID: Method Blank

Analyst: nina

Initial Sample Wt:

Dilution:

Autosampler Location: 72

Date Collected: 10/17/2012 1:34:52 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: Method Blank

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	20.7	0.0002	mg/L	0.00067	0.0002	mg/L	0.00067	419.55%
Al 308.215	-83.4	-0.0024	mg/L	0.00090	-0.0024	mg/L	0.00090	37.07%
As 188.979	-0.7	-0.0001	mg/L	0.00259	-0.0001	mg/L	0.00259	>999.9%
B 249.677	-4150.1	-0.0469	mg/L	0.00026	-0.0469	mg/L	0.00026	0.55%
Ba 233.527	20.2	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	13.41%
Be 313.107	117.0	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	32.60%
Bi 223.061	11.0	0.0051	mg/L	0.01145	0.0051	mg/L	0.01145	226.35%
Bi 190.171	-0.5	-0.0006	mg/L	0.00548	-0.0006	mg/L	0.00548	913.29%
Ca 315.887	-7.7	-0.0038	mg/L	0.00151	-0.0038	mg/L	0.00151	39.65%
Ca 317.933	-10.8	-0.0045	mg/L	0.00042	-0.0045	mg/L	0.00042	9.36%
Cd 214.440	0.7	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	80.51%
Co 228.616	5.5	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	1.72%
Cr 267.716	11.2	0.0003	mg/L	0.00013	0.0003	mg/L	0.00013	45.96%
Cu 324.752	-81.7	-0.0003	mg/L	0.00012	-0.0003	mg/L	0.00012	44.98%
Fe 238.204	-41.4	-0.0010	mg/L	0.00003	-0.0010	mg/L	0.00003	3.14%
Fe 273.955	48.3	0.0029	mg/L	0.00005	0.0029	mg/L	0.00005	1.65%
K 766.490	107.8	0.0408	mg/L	0.32433	0.0408	mg/L	0.32433	794.64%
Mg 279.077	7.8	0.0347	mg/L	0.01028	0.0347	mg/L	0.01028	29.64%
Mn 257.610	-13.9	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	5.68%
Mo 202.031	-3.8	-0.0009	mg/L	0.00083	-0.0009	mg/L	0.00083	96.40%
Na 589.592	407.3	0.0686	mg/L	0.01605	0.0686	mg/L	0.01605	23.41%
Na 330.237	-2.8	-0.3859	mg/L	0.02518	-0.3859	mg/L	0.02518	6.53%
Ni 231.604	3.1	0.0002	mg/L	0.00014	0.0002	mg/L	0.00014	85.69%
Pb 220.353	37.8	0.0019	mg/L	0.00181	0.0019	mg/L	0.00181	93.91%
Sb 206.836	-10.1	-0.0092	mg/L	0.00414	-0.0092	mg/L	0.00414	44.99%
Se 196.026	-67.0	-0.0086	mg/L	0.00110	-0.0086	mg/L	0.00110	12.91%
Sn 189.927	1.2	0.0004	mg/L	0.00043	0.0004	mg/L	0.00043	113.76%
Sr 407.771	133.9	0.0003	mg/L	0.00000	0.0003	mg/L	0.00000	0.66%
Sr 421.552	32.1	0.0001	mg/L	0.00032	0.0001	mg/L	0.00032	240.10%
Ti 334.940	-161.0	-0.0004	mg/L	0.00010	-0.0004	mg/L	0.00010	22.24%
Tl 190.801	-6.1	-0.0011	mg/L	0.00285	-0.0011	mg/L	0.00285	260.19%
V 290.880	81.2	0.0005	mg/L	0.00052	0.0005	mg/L	0.00052	98.83%
W 207.912	-1.5	-0.0006	mg/L	0.00109	-0.0006	mg/L	0.00109	175.93%
Y 371.029	1608.3						36.86	2.29%
Zn 206.200	0.8	0.0001	mg/L	0.00017	0.0001	mg/L	0.00017	327.37%
P 213.617	13.9	0.0102	mg/L	0.00049	0.0102	mg/L	0.00049	4.78%
Si 251.611	-58.1	-0.0015	mg/L	0.00007	-0.0015	mg/L	0.00007	4.93%
Li 670.784	170.7	0.0026	mg/L	0.00155	0.0026	mg/L	0.00155	59.40%
Li 610.362	0.9	0.0001	mg/L	0.03380	0.0001	mg/L	0.03380	>999.9%
S 181.975	4.5	0.0185	mg/L	0.00231	0.0185	mg/L	0.00231	12.46%

ALAB: 00113

Sequence No.: 52

Sample ID: LCS

Analyst: nina

Initial Sample Wt:

Dilution:

Autosampler Location: 73

Date Collected: 10/17/2012 1:37:29 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: LCS

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	136657.9	1.052 mg/L	0.0286	1.052 mg/L	0.0286	2.71%
Al 308.215	74111.5	2.161 mg/L	0.0091	2.161 mg/L	0.0091	0.42%
As 188.979	11775.2	2.127 mg/L	0.0017	2.127 mg/L	0.0017	0.08%
B 249.677	184400.1	2.086 mg/L	0.0333	2.086 mg/L	0.0333	1.60%
Ba 233.527	234461.0	2.276 mg/L	0.0759	2.276 mg/L	0.0759	3.33%
Be 313.107	4964591.1	2.243 mg/L	0.0376	2.243 mg/L	0.0376	1.68%
Bi 223.061	-117.4	-0.0541 mg/L	0.00354	-0.0541 mg/L	0.00354	6.55%
Bi 190.171	7.2	0.0089 mg/L	0.00027	0.0089 mg/L	0.00027	3.00%
Ca 315.887	5105.8	2.519 mg/L	0.0208	2.519 mg/L	0.0208	0.82%
Ca 317.933	6008.9	2.508 mg/L	0.0292	2.508 mg/L	0.0292	1.17%
Cd 214.440	92907.8	2.096 mg/L	0.0455	2.096 mg/L	0.0455	2.17%
Co 228.616	55518.6	2.174 mg/L	0.0393	2.174 mg/L	0.0393	1.81%
Cr 267.716	86487.3	2.240 mg/L	0.0371	2.240 mg/L	0.0371	1.66%
Cu 324.752	642327.8	2.156 mg/L	0.0723	2.156 mg/L	0.0723	3.35%
Fe 238.204	88737.2	2.251 mg/L	0.0434	2.251 mg/L	0.0434	1.93%
Fe 273.955	36520.3	2.193 mg/L	0.0427	2.193 mg/L	0.0427	1.95%
K 766.490	58499.4	22.15 mg/L	0.092	22.15 mg/L	0.092	0.41%
Mg 279.077	550.0	2.458 mg/L	0.0523	2.458 mg/L	0.0523	2.13%
Mn 257.610	949789.9	2.211 mg/L	0.0653	2.211 mg/L	0.0653	2.96%
Mo 202.031	9028.3	2.024 mg/L	0.0223	2.024 mg/L	0.0223	1.10%
Na 589.592	14545.9	2.449 mg/L	0.0059	2.449 mg/L	0.0059	0.24%
Na 330.237	-38.7	-5.357 mg/L	0.5359	-5.357 mg/L	0.5359	10.00%
Ni 231.604	41329.2	2.205 mg/L	0.0363	2.205 mg/L	0.0363	1.65%
Pb 220.353	42491.3	2.161 mg/L	0.0307	2.161 mg/L	0.0307	1.42%
Sb 206.836	2247.7	2.046 mg/L	0.0140	2.046 mg/L	0.0140	0.68%
Se 196.026	15824.1	2.020 mg/L	0.0159	2.020 mg/L	0.0159	0.79%
Sn 189.927	-13.5	-0.0044 mg/L	0.00020	-0.0044 mg/L	0.00020	4.63%
Sr 407.771	854610.7	1.987 mg/L	0.0450	1.987 mg/L	0.0450	2.26%
Sr 421.552	482047.2	2.005 mg/L	0.0495	2.005 mg/L	0.0495	2.47%
Ti 334.940	828825.2	2.252 mg/L	0.0695	2.252 mg/L	0.0695	3.09%
Tl 190.801	12138.2	2.195 mg/L	0.0036	2.195 mg/L	0.0036	0.17%
V 290.880	338837.9	2.193 mg/L	0.0703	2.193 mg/L	0.0703	3.21%
W 207.912	39.7	0.0160 mg/L	0.00004	0.0160 mg/L	0.00004	0.28%
Y 371.029	1454.7				138.18	9.50%
Zn 206.200	32045.3	2.177 mg/L	0.0408	2.177 mg/L	0.0408	1.88%
P 213.617	-3971.1	-2.921 mg/L	0.0829	-2.921 mg/L	0.0829	2.84%
Si 251.611	84171.9	2.146 mg/L	0.0213	2.146 mg/L	0.0213	0.99%
Li 670.784	138749.7	2.115 mg/L	0.0210	2.115 mg/L	0.0210	0.99%
Li 610.362	14273.9	2.067 mg/L	0.1040	2.067 mg/L	0.1040	5.03%
S 181.975	17.5	0.0720 mg/L	0.02574	0.0720 mg/L	0.02574	35.76%

ALAB: 00114

Sequence No.: 53
 Sample ID: 311877-003
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 74
 Date Collected: 10/17/2012 1:40:09 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 311877-003

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	29.9	0.0002 mg/L	0.00058	0.0002 mg/L	0.00058	250.63%
Al 308.215	1500.1	0.0437 mg/L	0.01032	0.0437 mg/L	0.01032	23.60%
As 188.979	94.0	0.0170 mg/L	0.00199	0.0170 mg/L	0.00199	11.74%
B 249.677	20800.7	0.2353 mg/L	0.02018	0.2353 mg/L	0.02018	8.58%
Ba 233.527	11861.7	0.1152 mg/L	0.00181	0.1152 mg/L	0.00181	1.57%
Be 313.107	2280.7	0.0010 mg/L	0.00014	0.0010 mg/L	0.00014	13.70%
Bi 223.061	20.4	0.0094 mg/L	0.00461	0.0094 mg/L	0.00461	49.00%
Bi 190.171	16.8	0.0208 mg/L	0.00480	0.0208 mg/L	0.00480	23.10%
Ca 315.887	253450.6	125.1 mg/L	3.28	125.1 mg/L	3.28	2.62%
Ca 317.933	299459.6	125.0 mg/L	2.91	125.0 mg/L	2.91	2.33%
Cd 214.440	-129.3	-0.0029 mg/L	0.00006	-0.0029 mg/L	0.00006	2.02%
Co 228.616	40.6	0.0016 mg/L	0.00004	0.0016 mg/L	0.00004	2.50%
Cr 267.716	571.4	0.0148 mg/L	0.00022	0.0148 mg/L	0.00022	1.50%
Cu 324.752	713.8	0.0024 mg/L	0.00125	0.0024 mg/L	0.00125	52.23%
Fe 238.204	447.1	0.0113 mg/L	0.00073	0.0113 mg/L	0.00073	6.46%
Fe 273.955	201.3	0.0121 mg/L	0.00062	0.0121 mg/L	0.00062	5.10%
K 766.490	16854.5	6.381 mg/L	0.0596	6.381 mg/L	0.0596	0.93%
Mg 279.077	6662.8	29.77 mg/L	0.014	29.77 mg/L	0.014	0.05%
Mn 257.610	1018.6	0.0024 mg/L	0.00014	0.0024 mg/L	0.00014	5.95%
Mo 202.031	41.9	0.0094 mg/L	0.00078	0.0094 mg/L	0.00078	8.32%
Na 589.592	236544.3	39.82 mg/L	1.234	39.82 mg/L	1.234	3.10%
Na 330.237	274.9	38.02 mg/L	0.351	38.02 mg/L	0.351	0.92%
Ni 231.604	17.5	0.0009 mg/L	0.00027	0.0009 mg/L	0.00027	28.44%
Pb 220.353	149.2	0.0076 mg/L	0.00009	0.0076 mg/L	0.00009	1.16%
Sb 206.836	5.0	0.0046 mg/L	0.01372	0.0046 mg/L	0.01372	299.16%
Se 196.026	-61.3	-0.0078 mg/L	0.00845	-0.0078 mg/L	0.00845	107.91%
Sn 189.927	-99.3	-0.0323 mg/L	0.00215	-0.0323 mg/L	0.00215	6.66%
Sr 407.771	380568.0	0.8847 mg/L	0.02294	0.8847 mg/L	0.02294	2.59%
Sr 421.552	215398.9	0.8959 mg/L	0.02959	0.8959 mg/L	0.02959	3.30%
Ti 334.940	2745.4	0.0075 mg/L	0.00048	0.0075 mg/L	0.00048	6.47%
Tl 190.801	-54.1	-0.0098 mg/L	0.00068	-0.0098 mg/L	0.00068	6.93%
V 290.880	316.0	0.0020 mg/L	0.00071	0.0020 mg/L	0.00071	34.71%
W 207.912	14.9	0.0060 mg/L	0.00007	0.0060 mg/L	0.00007	1.16%
Y 371.029	1364.4				210.62	15.44%
Zn 206.200	3838.3	0.2608 mg/L	0.00463	0.2608 mg/L	0.00463	1.78%
P 213.617	42.5	0.0313 mg/L	0.00073	0.0313 mg/L	0.00073	2.33%
Si 251.611	531535.6	13.55 mg/L	0.723	13.55 mg/L	0.723	5.33%
Li 670.784	907.6	0.0138 mg/L	0.00641	0.0138 mg/L	0.00641	46.33%
Li 610.362	-1943.4	-0.2814 mg/L	0.07285	-0.2814 mg/L	0.07285	25.89%
S 181.975	7813.0	32.10 mg/L	0.679	32.10 mg/L	0.679	2.11%

ALAB: 00115

Sequence No.: 54

Sample ID: MS

Analyst: nina

Initial Sample Wt:

Dilution:

Autosampler Location: 75

Date Collected: 10/17/2012 1:42:44 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: MS

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	69710.8	0.5369 mg/L	0.01365	0.5369 mg/L	0.01365	2.54%
Al 308.215	36422.8	1.062 mg/L	0.0109	1.062 mg/L	0.0109	1.03%
As 188.979	5875.4	1.061 mg/L	0.0099	1.061 mg/L	0.0099	0.93%
B 249.677	117145.7	1.325 mg/L	0.0319	1.325 mg/L	0.0319	2.40%
Ba 233.527	124949.3	1.213 mg/L	0.0314	1.213 mg/L	0.0314	2.59%
Be 313.107	2254989.2	1.019 mg/L	0.0731	1.019 mg/L	0.0731	7.18%
Bi 223.061	-49.3	-0.0227 mg/L	0.00370	-0.0227 mg/L	0.00370	16.31%
Bi 190.171	13.9	0.0171 mg/L	0.00650	0.0171 mg/L	0.00650	38.00%
Ca 315.887	252236.4	124.5 mg/L	1.84	124.5 mg/L	1.84	1.48%
Ca 317.933	298068.5	124.4 mg/L	2.25	124.4 mg/L	2.25	1.81%
Cd 214.440	44541.2	1.005 mg/L	0.0373	1.005 mg/L	0.0373	3.71%
Co 228.616	25283.7	0.9902 mg/L	0.02320	0.9902 mg/L	0.02320	2.34%
Cr 267.716	42110.5	1.091 mg/L	0.0199	1.091 mg/L	0.0199	1.82%
Cu 324.752	307321.7	1.032 mg/L	0.0173	1.032 mg/L	0.0173	1.68%
Fe 238.204	43033.4	1.092 mg/L	0.0346	1.092 mg/L	0.0346	3.17%
Fe 273.955	17511.6	1.052 mg/L	0.0196	1.052 mg/L	0.0196	1.87%
K 766.490	48142.2	18.23 mg/L	0.129	18.23 mg/L	0.129	0.71%
Mg 279.077	6740.0	30.12 mg/L	0.259	30.12 mg/L	0.259	0.86%
Mn 257.610	430811.5	1.003 mg/L	0.0778	1.003 mg/L	0.0778	7.76%
Mo 202.031	4261.6	0.9555 mg/L	0.00258	0.9555 mg/L	0.00258	0.27%
Na 589.592	238134.4	40.09 mg/L	0.420	40.09 mg/L	0.420	1.05%
Na 330.237	240.6	33.27 mg/L	1.480	33.27 mg/L	1.480	4.45%
Ni 231.604	19829.3	1.058 mg/L	0.0371	1.058 mg/L	0.0371	3.51%
Pb 220.353	19138.5	0.9734 mg/L	0.00133	0.9734 mg/L	0.00133	0.14%
Sb 206.836	1084.0	0.9869 mg/L	0.00373	0.9869 mg/L	0.00373	0.38%
Se 196.026	7757.2	0.9902 mg/L	0.02021	0.9902 mg/L	0.02021	2.04%
Sn 189.927	-114.1	-0.0371 mg/L	0.00032	-0.0371 mg/L	0.00032	0.85%
Sr 407.771	804532.9	1.870 mg/L	0.0266	1.870 mg/L	0.0266	1.42%
Sr 421.552	454303.3	1.890 mg/L	0.0252	1.890 mg/L	0.0252	1.33%
Ti 334.940	385436.9	1.047 mg/L	0.0748	1.047 mg/L	0.0748	7.15%
Tl 190.801	5481.8	0.9914 mg/L	0.00199	0.9914 mg/L	0.00199	0.20%
V 290.880	164657.8	1.066 mg/L	0.0277	1.066 mg/L	0.0277	2.60%
W 207.912	32.2	0.0130 mg/L	0.00024	0.0130 mg/L	0.00024	1.83%
Y 371.029	1333.5				8.37	0.63%
Zn 206.200	19588.5	1.331 mg/L	0.0461	1.331 mg/L	0.0461	3.47%
P 213.617	-1691.4	-1.244 mg/L	0.0040	-1.244 mg/L	0.0040	0.32%
Si 251.611	523833.7	13.35 mg/L	0.992	13.35 mg/L	0.992	7.43%
Li 670.784	71045.7	1.083 mg/L	0.0034	1.083 mg/L	0.0034	0.31%
Li 610.362	5778.3	0.8368 mg/L	0.10839	0.8368 mg/L	0.10839	12.95%
S 181.975	7619.1	31.30 mg/L	0.022	31.30 mg/L	0.022	0.07%

ALAB: 00116

Sequence No.: 55

Sample ID: MSD

Analyst: nina

Initial Sample Wt:

Dilution:

Autosampler Location: 76

Date Collected: 10/17/2012 1:45:21 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: MSD

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	65980.9	0.5082 mg/L	0.00969	0.5082 mg/L	0.00969	1.91%
Al 308.215	34041.2	0.9927 mg/L	0.01489	0.9927 mg/L	0.01489	1.50%
As 188.979	5830.7	1.053 mg/L	0.0027	1.053 mg/L	0.0027	0.26%
B 249.677	110566.1	1.251 mg/L	0.0337	1.251 mg/L	0.0337	2.70%
Ba 233.527	119817.3	1.163 mg/L	0.0189	1.163 mg/L	0.0189	1.63%
Be 313.107	2271328.5	1.026 mg/L	0.0609	1.026 mg/L	0.0609	5.93%
Bi 224.461	-35.2	-0.0162 mg/L	0.00309	-0.0162 mg/L	0.00309	19.06%
Bi 190.171	22.2	0.0274 mg/L	0.00708	0.0274 mg/L	0.00708	25.84%
Ca 315.887	244397.0	120.6 mg/L	10.75	120.6 mg/L	10.75	8.92%
Ca 317.933	287232.3	119.9 mg/L	11.12	119.9 mg/L	11.12	9.28%
Cd 214.440	42605.7	0.9612 mg/L	0.00840	0.9612 mg/L	0.00840	0.87%
Co 228.616	24298.6	0.9517 mg/L	0.02267	0.9517 mg/L	0.02267	2.38%
Cr 267.716	40685.2	1.054 mg/L	0.0213	1.054 mg/L	0.0213	2.02%
Cu 324.752	287274.6	0.9644 mg/L	0.02137	0.9644 mg/L	0.02137	2.22%
Fe 238.204	41234.9	1.046 mg/L	0.0183	1.046 mg/L	0.0183	1.75%
Fe 273.955	16814.8	1.010 mg/L	0.0147	1.010 mg/L	0.0147	1.46%
K 766.490	46207.3	17.49 mg/L	1.520	17.49 mg/L	1.520	8.69%
Mg 279.077	6845.2	30.59 mg/L	0.479	30.59 mg/L	0.479	1.57%
Mn 257.610	434896.0	1.012 mg/L	0.0451	1.012 mg/L	0.0451	4.46%
Mo 202.031	4217.9	0.9457 mg/L	0.00718	0.9457 mg/L	0.00718	0.76%
Na 589.592	231924.1	39.04 mg/L	3.314	39.04 mg/L	3.314	8.49%
Na 330.237	258.8	35.79 mg/L	0.137	35.79 mg/L	0.137	0.38%
Ni 231.604	18805.4	1.003 mg/L	0.0105	1.003 mg/L	0.0105	1.05%
Pb 220.353	18871.1	0.9598 mg/L	0.00013	0.9598 mg/L	0.00013	0.01%
Sb 206.836	1056.9	0.9622 mg/L	0.00141	0.9622 mg/L	0.00141	0.15%
Se 196.026	7917.3	1.011 mg/L	0.0122	1.011 mg/L	0.0122	1.21%
Sn 189.927	-112.2	-0.0365 mg/L	0.00046	-0.0365 mg/L	0.00046	1.26%
Sr 407.771	781341.8	1.816 mg/L	0.1515	1.816 mg/L	0.1515	8.34%
Sr 421.552	439363.5	1.828 mg/L	0.1506	1.828 mg/L	0.1506	8.24%
Ti 334.940	386601.5	1.050 mg/L	0.0560	1.050 mg/L	0.0560	5.33%
Tl 190.801	5399.4	0.9765 mg/L	0.00420	0.9765 mg/L	0.00420	0.43%
V 290.880	156618.3	1.014 mg/L	0.0157	1.014 mg/L	0.0157	1.55%
W 207.912	38.4	0.0155 mg/L	0.00061	0.0155 mg/L	0.00061	3.91%
Y 371.029	1739.9				83.94	4.82%
Zn 206.200	18425.7	1.252 mg/L	0.0292	1.252 mg/L	0.0292	2.33%
P 213.617	-1696.2	-1.248 mg/L	0.0255	-1.248 mg/L	0.0255	2.04%
Si 251.611	530122.6	13.51 mg/L	0.701	13.51 mg/L	0.701	5.18%
Li 670.784	69149.7	1.054 mg/L	0.0618	1.054 mg/L	0.0618	5.86%
Li 610.362	5967.8	0.8642 mg/L	0.16578	0.8642 mg/L	0.16578	19.18%
S 181.975	7586.9	31.17 mg/L	0.183	31.17 mg/L	0.183	0.59%

ALAB: 00117

Sample Information Detail Report
Document Name: 10-17-12a

File Description
Default Sample Information File

Parameters Common to All Samples

Batch ID	10-17-12
Analyst Name	nina
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Initial Sample Wt.
1	11	CCV10ppm- Sn(3-22-1	
2	12	ICSA(3-22-12)	
3	13	ICSAB(3-22-12)	
4	14	50ppm(6-15-12)	
5	1	BLK	
6	1	BLK	
7	1	BLK	
8	1	BLK	
9	1	BLK	
10	1	BLK	
11	21	0.005ppm Ag(daily)	
12	22	0.005ppm CAM(daily)	
13	23	0.010ppm CAM(daily)	
14	24	0.020ppm CAM(daily)	
15	25	0.050ppm CAM(daily)	
16	26	0.5 ppm CAM(daily)	
17	1	CCB(daily)	
18	38	Method Blank	
19	39	LCS	
20	40	311995-007	
21	41	MS	
22	42	MSD	
23	43	311995-002	
24	44	311995-009	
25	45	311995-010	
26	46	311995-011	
27	47	312159-003	
28	48	312159-004	
29	49	312159-005	
30	50	312159-006	
31	72	Method Blank	
32	73	LCS	
33	74	311877-003	
34	75	MS	
35	76	MSD	
36	77	312080-003	
37	78	312080-004	
38	79	312080-005	
39	80	312080-006	
40	81	312080-008	
41	82	312080-009	
42	83	312080-010	
43	84	312080-013	
44	85	312080-015	
45	86	312094-003	
46	87	312094-004	
47	88	312094-005	
48	89	312094-006	
49	90	312094-007	
50	91	Method Blank	
51	92	LCS	
52	93	312205-002	
53	94	MS	
54	95	MSD	
55	96	312205-004	
56	97	312205-005	
57	98	312205-006	
58	99	312205-007	
59	100	311995-002	

10/17/2012 2:27:29 PM

ALAB : 00118

Sample Information Detail Report
Document Name: 10-17-12a

63	104	MS
64	105	312080-008
65	106	312080-013
66	107	312080-014
67	108	312094-002

Sample No	Sample Prep. Vol.	Aliquot Volume	Diluted To Vol.
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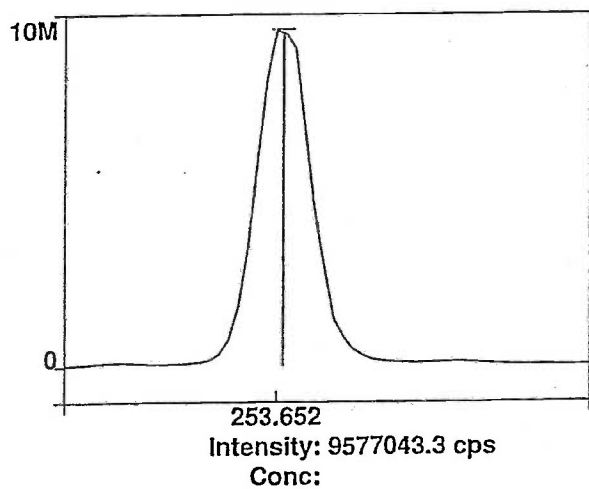
Sample Information Detail Report
Document Name: 10-17-12a

Sample No	Sample Units *	Test	QC Batch
1	mg/L		
2	mg/L		
3	mg/L		
4	mg/L		
5	mg/L		
6	mg/L		
7	mg/L		
8	mg/L		
9	mg/L		
10	mg/L		
11	mg/L		
12	mg/L		
13	mg/L		
14	mg/L		
15	mg/L		
16	mg/L		
17	mg/L		
18	mg/L	6010 Dissolved Meta	QC1130580
19	mg/L	6010 Dissolved Meta	QC1130580
20	mg/L	6010 Dissolved Meta	
21	mg/L	6010 Dissolved Meta	QC1130580
22	mg/L	6010 Dissolved Meta	QC1130580
23	mg/L	6010 Dissolved Meta	
24	mg/L	6010 Dissolved Meta	
25	mg/L	6010 Dissolved Meta	
26	mg/L	6010 Dissolved Meta	
27	mg/L	6010 Dissolved Meta	
28	mg/L	6010 Dissolved Meta	
29	mg/L	6010 Dissolved Meta	
30	mg/L	6010 Dissolved Meta	
31	mg/L	6010 Alab	QC1130591
32	mg/L	6010 Alab	QC1130591
33	mg/L	6010 Alab	
34	mg/L	6010 Alab	QC1130591
35	mg/L	6010 Alab	QC1130591
36	mg/L	6010 Dissolved Meta	
37	mg/L	6010 Dissolved Meta	
38	mg/L	6010 Dissolved Meta	
39	mg/L	6010 Dissolved Meta	
40	mg/L	6010 Dissolved Meta	
41	mg/L	6010 Dissolved Meta	
42	mg/L	6010 Dissolved Meta	
43	mg/L	6010 Dissolved Meta	
44	mg/L	6010 Dissolved Meta	
45	mg/L	6010 Dissolved Meta	
46	mg/L	6010 Dissolved Meta	
47	mg/L	6010 Dissolved Meta	
48	mg/L	6010 Dissolved Meta	
49	mg/L	6010 Dissolved Meta	
50	mg/L	6010 Dissolved Meta	QC1130594
51	mg/L	6010 Dissolved Meta	QC1130594
52	mg/L	6010 Dissolved Meta	
53	mg/L	6010 Dissolved Meta	QC1130594
54	mg/L	6010 Dissolved Meta	QC1130594
55	mg/L	6010 Dissolved Meta	
56	mg/L	6010 Dissolved Meta	
57	mg/L	6010 Dissolved Meta	
58	mg/L	6010 Dissolved Meta	
59	mg/L	6010 Alab	
60	mg/L	200.7 Alab	QC1130599
61	mg/L	200.7 Alab	QC1130599
62	mg/L	200.7 Alab	
63	mg/L	200.7 Alab	QC1130599
64	mg/L	200.7 Alab	
65	mg/L	200.7 Alab	
66	mg/L	200.7 Alab	
67	mg/L	200.7 Alab	

Method: Hg_ReAlign
Result:

Hg 253.652

Rep: 1



ALAB: 00121

10/17/2012 8:15:51 AM Hg ReAlign... Actual peak offset (nm): -0.006
Drift (nm): 0.000 Slit adjustment: 0

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	160.3
-1.6	15.0	149.1
-1.2	15.0	209.8
-0.8	15.0	97.1
-0.4	15.0	618921.6
0.0	15.0	901747.1
0.4	15.0	938700.4
0.8	15.0	873229.8
1.2	15.0	744922.2
1.6	15.0	594167.7
2.0	15.0	475173.3
0.4	10.0	4604.5
0.4	10.5	28601.6
0.4	11.0	61638.0
0.4	11.5	106566.7
0.4	12.0	173426.4
0.4	12.5	364407.1
0.4	13.0	474763.4
0.4	13.5	636718.1
0.4	14.0	773993.2
0.4	14.5	992801.2
0.4	15.0	993083.5
0.4	15.5	942589.0
0.4	16.0	849535.1
0.4	16.5	575639.6
0.4	17.0	423265.7
0.4	17.5	304642.7
0.4	18.0	209120.3
0.4	18.5	139639.3
0.4	19.0	56728.2
0.4	19.5	33164.0
0.4	20.0	16327.3
-0.4	15.0	992100.1
0.0	15.0	1019719.7
0.4	15.0	1004944.1
0.8	15.0	900803.1
1.2	15.0	777884.4
0.0	13.0	505808.6
0.0	13.5	630851.1
0.0	14.0	789997.9
0.0	14.5	1028928.4
0.0	15.0	1019252.9
0.0	15.5	1012406.6
0.0	16.0	870832.3
0.0	16.5	580504.7
0.0	17.0	431567.2

10/17/2012 8:18:25 AM aligned for analyte Mn 257.610

viewing position set to 0.0 mm having Peak intensity 1028928.4 for Axial viewing
viewing position set to 14.5 mm having Peak intensity 1028928.4 for Axial viewing

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	358623.6
-1.6	15.0	514834.7
-1.2	15.0	671904.8
-0.8	15.0	839485.3
-0.4	15.0	976671.3
0.0	15.0	1007761.0
0.4	15.0	990446.0
0.8	15.0	883608.2
1.2	15.0	757614.2
1.6	15.0	632761.0
2.0	15.0	472101.9
0.0	10.0	2374.9
0.0	10.5	9933.7
0.0	11.0	27997.3
0.0	11.5	50741.0

ALAB: 00122

0.0	13.5	485282.2
0.0	14.0	625537.9
0.0	14.5	930046.1
0.0	15.0	1004271.8
0.0	15.5	1031028.2
0.0	16.0	968308.9
0.0	16.5	720124.0
0.0	17.0	574059.1
0.0	17.5	428336.3
0.0	18.0	312674.3
0.0	18.5	209004.3
0.0	19.0	93697.1
0.0	19.5	58780.4
0.0	20.0	34964.0
-0.8	15.5	865725.7
-0.4	15.5	984043.9
0.0	15.5	1023644.5
0.4	15.5	997313.5
0.8	15.5	908512.8
0.0	13.5	499694.2
0.0	14.0	626409.7
0.0	14.5	936608.5
0.0	15.0	1030748.6
0.0	15.5	1051600.6
0.0	16.0	995810.9
0.0	16.5	729034.5
0.0	17.0	582674.2
0.0	17.5	423274.1

10/17/2012 8:20:19 AM aligned for analyte Mn 257.610

(viewing position set to 0.0 mm having Peak intensity 1051600.6 for Axial viewing
/ viewing position set to 15.5 mm having Peak intensity 1051600.6 for Axial viewing

align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	368802.2
-1.6	15.0	535573.2
-1.2	15.0	685042.5
-0.8	15.0	855615.5
-0.4	15.0	1005174.4
0.0	15.0	1049877.5
0.4	15.0	990614.3
0.8	15.0	911173.8
1.2	15.0	786076.8
1.6	15.0	627470.5
2.0	15.0	478863.8
0.0	10.0	4537.2
0.0	10.5	28733.6
0.0	11.0	61585.4
0.0	11.5	108605.8
0.0	12.0	170531.1
0.0	12.5	361889.6
0.0	13.0	493176.5
0.0	13.5	636984.8
0.0	14.0	799097.6
0.0	14.5	1023369.4
0.0	15.0	1056977.8
0.0	15.5	973559.3
0.0	16.0	869238.6
0.0	16.5	574307.1
0.0	17.0	434194.0
0.0	17.5	309803.2
0.0	18.0	217458.8
0.0	18.5	146652.2
0.0	19.0	58908.1
0.0	19.5	35375.4
0.0	20.0	17445.5
-0.8	15.0	856368.5
-0.4	15.0	1001864.2
0.0	15.0	1039405.9
0.4	15.0	1019266.0
0.8	15.0	909367.1
0.0	13.0	509236.6
0.0	13.5	642453.9
0.0	14.0	812658.1

ALAB: 00123

0.0	16.0	855235.5
0.0	16.5	565411.3
0.0	17.0	429223.9

10/17/2012 8:22:16 AM aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 1027925.0 for Axial viewing
Y viewing position set to 15.0 mm having Peak intensity 1027925.0 for Axial viewing

Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	25.2
-6.5	15.0	27.7
-6.0	15.0	20.8
-5.5	15.0	21.0
-5.0	15.0	25.4
-4.5	15.0	32.4
-4.0	15.0	35.1
-3.5	15.0	41.6
-3.0	15.0	56.5
-2.5	15.0	125.0
-2.0	15.0	233.5
-1.5	15.0	292.1
-1.0	15.0	474.7
-0.5	15.0	591.5
0.0	15.0	729.5
0.5	15.0	647.2
1.0	15.0	487.5

Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	748.8
-6.5	15.0	813.0
-6.0	15.0	893.0
-5.5	15.0	1023.4
-5.0	15.0	1302.8
-4.5	15.0	1794.9
-4.0	15.0	2480.6
-3.5	15.0	3563.6
-3.0	15.0	4443.8
-2.5	15.0	6702.5
-2.0	15.0	11723.3
-1.5	15.0	22710.5
-1.0	15.0	37396.1
-0.5	15.0	54710.6
0.0	15.0	60671.3
0.5	15.0	51962.3
1.0	15.0	34359.0
1.5	15.0	21189.7
2.0	15.0	11591.1
2.5	15.0	8657.8
3.0	15.0	7853.1
3.5	15.0	5742.0
4.0	15.0	3663.7
4.5	15.0	2127.6
5.0	15.0	1222.0
5.5	15.0	813.1
6.0	15.0	745.4
6.5	15.0	822.3
7.0	15.0	849.2

10/17/2012 8:30:28 AM aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 60671.3 for Radial viewing

ALAB: 00124

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analysis Begun

Start Time: 10/17/2012 8:54:09 AM Plasma On Time: 10/17/2012 7:49:05 AM
 Logged In Analyst: kedy Technique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sid
 Batch ID: 10-17-12
 Results Data Set: 10-17-12
 Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 1 Autosampler Location: 1
 Sample ID: Calib Blank 1 Date Collected: 10/17/2012 8:54:09 AM
 Analyst: Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

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Clean Data: Calib Blank 1

	Mean Corrected			Calib
analyte	Intensity	Std.Dev.	RSD	Conc. Units
g 328.068	614.6	43.21	7.03%	[0.00] mg/L
l 308.215	3016.3	79.38	2.63%	[0.00] mg/L
s 188.979	23.9	17.43	73.07%	[0.00] mg/L
249.677	167.9	15.16	9.03%	[0.00] mg/L
a 233.527	-72.0	3.97	5.51%	[0.00] mg/L
e 313.107	-3501.9	120.01	3.43%	[0.00] mg/L
i 223.061	-44.0	6.08	13.82%	[0.00] mg/L
i 190.171	10.2	2.17	21.36%	[0.00] mg/L
a 315.887	38.4	2.27	5.92%	[0.00] mg/L
a 317.933	140.6	3.85	2.74%	[0.00] mg/L
d 214.440	20.8	0.96	4.64%	[0.00] mg/L
o 228.616	-35.9	3.30	9.19%	[0.00] mg/L
r 267.716	-65.7	5.79	8.81%	[0.00] mg/L
u 324.752	2240.7	82.03	3.66%	[0.00] mg/L
e 238.204	106.6	1.38	1.30%	[0.00] mg/L
e 273.955	-368.5	1.73	0.47%	[0.00] mg/L
766.490	-473.5	80.16	16.93%	[0.00] mg/L
g 279.077	-37.3	0.34	0.92%	[0.00] mg/L
n 257.610	312.0	2.98	0.95%	[0.00] mg/L
o 202.031	-3.0	0.64	20.93%	[0.00] mg/L
a 589.592	706.2	136.06	19.27%	[0.00] mg/L
a 330.237	29.0	9.82	33.87%	[0.00] mg/L
i 231.604	-9.4	9.35	99.39%	[0.00] mg/L
b 220.353	-85.3	7.32	8.58%	[0.00] mg/L
b 206.836	-12.8	5.57	43.67%	[0.00] mg/L
e 196.026	19.2	92.48	482.76%	[0.00] mg/L
n 189.927	-10.7	5.91	55.17%	[0.00] mg/L
r 407.771	59.9	1.28	2.14%	[0.00] mg/L
r 421.552	149.4	68.91	46.13%	[0.00] mg/L
i 334.940	-1227.7	276.62	22.53%	[0.00] mg/L
l 190.801	21.7	21.80	100.27%	[0.00] mg/L
290.880	3597.4	48.58	1.35%	[0.00] mg/L
207.912	19.0	0.40	2.11%	[0.00] mg/L
n 206.200	3.6	2.23	62.33%	[0.00] mg/L
213.617	-4.4	5.82	132.85%	[0.00] mg/L
i 251.611	476.6	101.18	21.23%	[0.00] mg/L
i 670.784	342.7	226.12	65.98%	[0.00] mg/L
i 610.362	-3034.9	306.71	10.11%	[0.00] mg/L
181.975	6.7	0.44	6.53%	[0.00] mg/L

ALAB: 00125

Sequence No.: 2
Sample ID: ICP STD1-0.05PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 10/17/2012 8:56:46 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD1-0.05PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
Al 308.215	1277.2	290.87	22.77%	[0.05]	mg/L
As 188.979	298.9	5.88	1.97%	[0.05]	mg/L
B 249.677	4524.8	11.31	0.25%	[0.05]	mg/L
Ca 233.527	5800.4	200.91	3.46%	[0.05]	mg/L
Fe 313.107	113036.3	4185.41	3.70%	[0.05]	mg/L
Li 214.440	2411.9	10.23	0.42%	[0.05]	mg/L
Mo 228.616	1403.0	3.23	0.23%	[0.05]	mg/L
Nr 267.716	2057.9	4.14	0.20%	[0.05]	mg/L
Nu 324.752	16152.7	816.33	5.05%	[0.05]	mg/L
P 238.204	2155.5	16.35	0.76%	[0.05]	mg/L
P 273.955	935.5	11.03	1.18%	[0.05]	mg/L
Pb 257.610	25431.5	796.36	3.13%	[0.05]	mg/L
Pb 202.031	230.7	4.00	1.73%	[0.05]	mg/L
Pb 231.604	1007.4	0.10	0.01%	[0.05]	mg/L
Pb 220.353	1070.7	15.22	1.42%	[0.05]	mg/L
Pb 206.836	64.2	4.79	7.46%	[0.05]	mg/L
Pb 196.026	358.4	13.01	3.63%	[0.05]	mg/L
Pb 334.940	19946.1	880.41	4.41%	[0.05]	mg/L
Pb 190.801	284.4	18.40	6.47%	[0.05]	mg/L
Pb 290.880	8266.1	416.88	5.04%	[0.05]	mg/L
Pb 206.200	799.3	10.00	1.25%	[0.05]	mg/L

ALAB: 00126

Sequence No.: 3

Sample ID: ICP STD2-1PPM(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 10/17/2012 8:58:57 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP STD2-1PPM(7-6-12)

analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
Al 308.215	37538.5	196.05	0.52%	[1.00]	mg/L
As 188.979	5874.3	31.62	0.54%	[1.00]	mg/L
B 249.677	93150.5	3289.28	3.53%	[1.00]	mg/L
Ca 233.527	115651.8	2380.41	2.06%	[1.00]	mg/L
Fe 313.107	2297449.5	35599.88	1.55%	[1.00]	mg/L
Md 214.440	50266.8	1239.62	2.47%	[1.00]	mg/L
Mo 228.616	28681.5	552.55	1.93%	[1.00]	mg/L
Nr 267.716	42076.9	1284.16	3.05%	[1.00]	mg/L
Nu 324.752	326226.1	5124.26	1.57%	[1.00]	mg/L
Se 238.204	44107.8	896.64	2.03%	[1.00]	mg/L
Te 273.955	18719.7	398.58	2.13%	[1.00]	mg/L
In 257.610	496397.4	9455.68	1.90%	[1.00]	mg/L
Lo 202.031	4794.5	46.79	0.98%	[1.00]	mg/L
Mi 231.604	20872.2	323.87	1.55%	[1.00]	mg/L
Pb 220.353	22324.8	476.52	2.13%	[1.00]	mg/L
Pb 206.836	1114.5	4.75	0.43%	[1.00]	mg/L
Se 196.026	8266.7	121.49	1.47%	[1.00]	mg/L
Cr 407.771	422913.3	27154.22	6.42%	[1.00]	mg/L
Cr 421.552	236845.3	15732.94	6.64%	[1.00]	mg/L
Mi 334.940	394021.1	4744.00	1.20%	[1.00]	mg/L
Li 190.801	6390.0	9.31	0.15%	[1.00]	mg/L
Se 290.880	164880.2	3118.49	1.89%	[1.00]	mg/L
Ni 206.200	16033.1	411.57	2.57%	[1.00]	mg/L

ALAB: 00127

Sequence No.: 4
 Sample ID: ICP STD3-20PPM(7-6-12)
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 10/17/2012 9:01:14 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICP STD3-20PPM(7-6-12)

analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Al 308.215	692853.0	8533.46	1.23%	[20.00]	mg/L
As 188.979	112345.6	406.92	0.36%	[20.00]	mg/L
B 249.677	1789964.4	80065.04	4.47%	[20.00]	mg/L
Ca 233.527	2063411.5	81299.54	3.94%	[20.00]	mg/L
Fe 313.107	Saturated2				
Li 223.061	22395.4	7.46	0.03%	[10]	mg/L
Li 190.171	8243.1	22.86	0.28%	[10]	mg/L
Na 315.887	22411.6	366.31	1.63%	[10.00]	mg/L
Na 317.933	26268.3	356.16	1.36%	[10.00]	mg/L
Nd 214.440	871581.7	42700.33	4.90%	[20.00]	mg/L
Co 228.616	523688.4	19062.46	3.64%	[20.00]	mg/L
Cr 267.716	769861.9	32114.49	4.17%	[20.00]	mg/L
Cu 324.752	6116031.3	253597.15	4.15%	[20.00]	mg/L
Fe 238.204	789483.2	37038.53	4.69%	[20.00]	mg/L
Fe 273.955	343734.0	13211.47	3.84%	[20.00]	mg/L
Fe 766.490	28824.7	22.42	0.08%	[10.00]	mg/L
Ga 279.077	2466.8	48.63	1.97%	[10.00]	mg/L
In 257.610	8766007.8	108767.34	1.24%	[20.00]	mg/L
Mo 202.031	92090.6	3251.85	3.53%	[20.00]	mg/L
Na 589.592	69742.9	943.22	1.35%	[10.00]	mg/L
Ni 231.604	378156.4	15148.36	4.01%	[20.00]	mg/L
Pb 220.353	408171.5	17079.20	4.18%	[20.00]	mg/L
Se 196.026	157342.4	778.83	0.49%	[20.00]	mg/L
Sn 189.927	30746.6	181.46	0.59%	[10.00]	mg/L
Ti 334.940	7600225.0	155551.52	2.05%	[20.00]	mg/L
Tl 190.801	110824.9	439.65	0.40%	[20.00]	mg/L
V 290.880	3164300.7	137797.18	4.35%	[20.00]	mg/L
V 207.912	12518.4	74.28	0.59%	[5]	mg/L
Zn 206.200	297987.9	13700.13	4.60%	[20.00]	mg/L
Zr 670.784	138060.0	1238.30	0.90%	[2.0]	mg/L
Zr 610.362	14061.5	382.82	2.72%	[2.0]	mg/L
Zr 181.975	2441.2	24.64	1.01%	[10.00]	mg/L

ALAB: 00128

Sequence No.: 5
Sample ID: ICP STD4-2PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 10/17/2012 9:03:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD4-2PPM(7-6-12)

	Mean Corrected			Calib
Analyte	Intensity	Std.Dev.	RSD	Conc. Units
g 328.068	261303.6	602.03	0.23%	[2.00] mg/L

ALAB: 00129

Sequence No.: 6
Sample ID: ICP STD5-100PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 10/17/2012 9:05:46 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD5-100PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units
As 315.887	217855.3	1157.66	0.53%	[100.00] mg/L
As 317.933	254890.3	2037.44	0.80%	[100.00] mg/L
As 766.490	281378.0	2548.71	0.91%	[100.00] mg/L
As 279.077	23267.6	27.16	0.12%	[100.00] mg/L
As 589.592	645890.4	7975.40	1.23%	[100.00] mg/L
As 330.237	776.8	8.61	1.11%	[100.00] mg/L

ALAB:00129A

Sequence No.: 7

Sample ID: ICP STD6-10PPM(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 10/17/2012 9:07:58 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP STD6-10PPM(7-6-12)

Mean Corrected	Std.Dev.	RSD	Conc. Units	Calib
Intensity				
213.617	152.45	1.14%	[10.00] mg/L	
251.611	9598.75	2.37%	[10.00] mg/L	

Calibration Summary

Analyste	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
g 328.068	1	Lin Thru 0	0.0	130700	0.00000	1.000000	
l 308.215	3	Lin Thru 0	0.0	34650	0.00000	0.999991	
s 188.979	3	Lin Thru 0	0.0	5618	0.00000	0.999997	
249.677	3	Lin Thru 0	0.0	89510	0.00000	0.999998	
a 233.527	3	Lin Thru 0	0.0	103200	0.00000	0.999982	
e 313.107	2	Lin Thru 0	0.0	2297000	0.00000	1.000000	
i 223.061	1	Lin Thru 0	0.0	2240	0.00000	1.000000	
i 190.171	1	Lin Thru 0	0.0	824.3	0.00000	1.000000	
a 315.887	2	Lin Thru 0	0.0	2179	0.00000	0.999996	
a 317.933	2	Lin Thru 0	0.0	2550	0.00000	0.999995	
d 214.440	3	Lin Thru 0	0.0	43600	0.00000	0.999971	
o 228.616	3	Lin Thru 0	0.0	26190	0.00000	0.999989	
r 267.716	3	Lin Thru 0	0.0	38500	0.00000	0.999989	
u 324.752	3	Lin Thru 0	0.0	305900	0.00000	0.999994	
e 238.204	3	Lin Thru 0	0.0	39490	0.00000	0.999983	
e 273.955	3	Lin Thru 0	0.0	17190	0.00000	0.999990	
766.490	2	Lin Thru 0	0.0	2814	0.00000	0.999997	
g 279.077	2	Lin Thru 0	0.0	232.8	0.00000	0.999982	
n 257.610	3	Lin Thru 0	0.0	438400	0.00000	0.999978	
o 202.031	3	Lin Thru 0	0.0	4605	0.00000	0.999998	
a 589.592	2	Lin Thru 0	0.0	6464	0.00000	0.999969	
a 330.237	1	Lin Thru 0	0.0	7.768	0.00000	1.000000	
i 231.604	3	Lin Thru 0	0.0	18910	0.00000	0.999987	
b 220.353	3	Lin Thru 0	0.0	20410	0.00000	0.999989	
b 206.836	2	Lin Thru 0	0.0	1115	0.00000	0.999971	
e 196.026	3	Lin Thru 0	0.0	7868	0.00000	0.999997	
n 189.927	1	Lin Thru 0	0.0	3075	0.00000	1.000000	
r 407.771	1	Lin Thru 0	0.0	422900	0.00000	1.000000	
r 421.552	1	Lin Thru 0	0.0	236800	0.00000	1.000000	
i 334.940	3	Lin Thru 0	0.0	380000	0.00000	0.999998	
l 190.801	3	Lin Thru 0	0.0	5543	0.00000	0.999971	
290.880	3	Lin Thru 0	0.0	158200	0.00000	0.999998	
207.912	1	Lin Thru 0	0.0	2504	0.00000	1.000000	
n 206.200	3	Lin Thru 0	0.0	14900	0.00000	0.999993	
213.617	1	Lin Thru 0	0.0	1337	0.00000	1.000000	
i 251.611	1	Lin Thru 0	0.0	40510	0.00000	1.000000	
i 670.784	1	Lin Thru 0	0.0	69030	0.00000	1.000000	
i 610.362	1	Lin Thru 0	0.0	7031	0.00000	1.000000	
181.975	1	Lin Thru 0	0.0	244.1	0.00000	1.000000	

ALAB:00130

Sequence No.: 8

Sample ID: ICP_ICV(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 10/17/2012 9:09:52 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP_ICV(7-6-12)

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	67592.1	0.5173 mg/L	0.00766	0.5173 mg/L	0.00766	1.48%
QC value within limits for Ag 328.068 Recovery = 103.47%						
Al 308.215	35904.8	1.036 mg/L	0.0134	1.036 mg/L	0.0134	1.29%
QC value within limits for Al 308.215 Recovery = 103.62%						
As 188.979	5617.7	1.0000 mg/L	0.01491	1.0000 mg/L	0.01491	1.49%
QC value within limits for As 188.979 Recovery = 100.00%						
B 249.677	91772.5	1.025 mg/L	0.0185	1.025 mg/L	0.0185	1.81%
QC value within limits for B 249.677 Recovery = 102.53%						
Ba 233.527	111962.8	1.085 mg/L	0.0190	1.085 mg/L	0.0190	1.75%
QC value within limits for Ba 233.527 Recovery = 108.49%						
Be 313.107	2306657.5	1.004 mg/L	0.0573	1.004 mg/L	0.0573	5.70%
QC value within limits for Be 313.107 Recovery = 100.40%						
Bi 223.061	-66.9	-0.0299 mg/L	0.00209	-0.0299 mg/L	0.00209	7.01%
Bi 190.171	10.9	0.0132 mg/L	0.00541	0.0132 mg/L	0.00541	41.07%
Ba 315.887	2344.2	1.076 mg/L	0.0012	1.076 mg/L	0.0012	0.11%
Ba 317.933	2755.3	1.081 mg/L	0.0010	1.081 mg/L	0.0010	0.10%
Cd 214.440	44839.3	1.029 mg/L	0.0178	1.029 mg/L	0.0178	1.73%
QC value within limits for Cd 214.440 Recovery = 102.85%						
Co 228.616	26937.1	1.028 mg/L	0.0182	1.028 mg/L	0.0182	1.77%
QC value within limits for Co 228.616 Recovery = 102.85%						
Cr 267.716	41632.0	1.081 mg/L	0.0177	1.081 mg/L	0.0177	1.64%
QC value within limits for Cr 267.716 Recovery = 108.13%						
Cu 324.752	304580.2	0.9958 mg/L	0.04320	0.9958 mg/L	0.04320	4.34%
QC value within limits for Cu 324.752 Recovery = 99.58%						
Fe 238.204	42462.6	1.075 mg/L	0.0181	1.075 mg/L	0.0181	1.68%
QC value within limits for Fe 238.204 Recovery = 107.54%						
Fe 273.955	17980.5	1.046 mg/L	0.0152	1.046 mg/L	0.0152	1.45%
QC value within limits for Fe 273.955 Recovery = 104.60%						
Ga 766.490	28470.5	10.12 mg/L	0.397	10.12 mg/L	0.397	3.92%
Ga 279.077	258.9	1.112 mg/L	0.0214	1.112 mg/L	0.0214	1.93%
Mn 257.610	452754.1	1.033 mg/L	0.0576	1.033 mg/L	0.0576	5.58%
QC value within limits for Mn 257.610 Recovery = 103.26%						
Mo 202.031	4666.8	1.013 mg/L	0.0161	1.013 mg/L	0.0161	1.59%
QC value within limits for Mo 202.031 Recovery = 101.34%						
Ni 589.592	7078.0	1.095 mg/L	0.0842	1.095 mg/L	0.0842	7.69%
Ni 330.237	-16.9	-2.173 mg/L	0.5043	-2.173 mg/L	0.5043	23.21%
Ni 231.604	19911.7	1.053 mg/L	0.0144	1.053 mg/L	0.0144	1.37%
QC value within limits for Ni 231.604 Recovery = 105.28%						
Pb 220.353	20882.8	1.023 mg/L	0.0309	1.023 mg/L	0.0309	3.03%
QC value within limits for Pb 220.353 Recovery = 102.30%						
Pb 206.836	1103.6	0.9898 mg/L	0.00042	0.9898 mg/L	0.00042	0.04%
QC value within limits for Pb 206.836 Recovery = 98.98%						
Se 196.026	8086.8	1.028 mg/L	0.0031	1.028 mg/L	0.0031	0.30%
QC value within limits for Se 196.026 Recovery = 102.78%						
Sr 189.927	-1.5	-0.0005 mg/L	0.00130	-0.0005 mg/L	0.00130	262.54%
Sr 407.771	413563.7	0.9779 mg/L	0.05327	0.9779 mg/L	0.05327	5.45%
QC value within limits for Sr 407.771 Recovery = 97.79%						
Sr 421.552	232850.0	0.9831 mg/L	0.04635	0.9831 mg/L	0.04635	4.71%
QC value within limits for Sr 421.552 Recovery = 98.31%						
Ti 334.940	395941.0	1.042 mg/L	0.0535	1.042 mg/L	0.0535	5.14%
QC value within limits for Ti 334.940 Recovery = 104.18%						
Tl 190.801	5844.7	1.054 mg/L	0.0110	1.054 mg/L	0.0110	1.04%
QC value within limits for Tl 190.801 Recovery = 105.44%						
V 290.880	162269.6	1.025 mg/L	0.0594	1.025 mg/L	0.0594	5.79%
QC value within limits for V 290.880 Recovery = 102.54%						
Zn 207.912	44.1	0.0176 mg/L	0.00065	0.0176 mg/L	0.00065	3.70%
QC value within limits for Zn 207.912 Recovery = 105.15%						
Zn 371.029	1447.0	1.022 mg/L	0.0193	1.022 mg/L	0.0193	1.88%
QC value within limits for Zn 371.029 Recovery = 102.20%						
Zn 213.617	-1791.4	-1.340 mg/L	0.0282	-1.340 mg/L	0.0282	2.10%
QC value within limits for Zn 213.617 Recovery = 99.62%						
Si 251.611	40356.4	0.9962 mg/L	0.01025	0.9962 mg/L	0.01025	1.03%
QC value within limits for Si 251.611 Recovery = 99.62%						
Si 670.784	65949.8	0.9554 mg/L	0.05723	0.9554 mg/L	0.05723	5.99%
Si 610.262	7102.6	1.023 mg/L	0.1809	1.023 mg/L	0.1809	17.69%

Sequence No.: 9
 Sample ID: ICP_ICB(Daily)
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 10/17/2012 9:18:59 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICP_ICB(Daily)

Element	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag	328.068	10.0	0.0001 mg/L	0.00021	0.0001 mg/L	0.00021 277.04%
Al	308.215	-89.7	-0.0026 mg/L	0.00007	-0.0026 mg/L	0.00007 2.52%
As	188.979	-1.9	-0.0003 mg/L	0.00116	-0.0003 mg/L	0.00116 337.86%
B	249.677	3640.5	0.0407 mg/L	0.00116	0.0407 mg/L	0.00116 2.84%
Ba	233.527	68.3	0.0007 mg/L	0.00005	0.0007 mg/L	0.00005 7.99%
Be	313.107	1108.2	0.0005 mg/L	0.00009	0.0005 mg/L	0.00009 19.25%
Bi	223.061	-9.1	-0.0041 mg/L	0.00083	-0.0041 mg/L	0.00083 20.26%
Br	190.171	6.9	0.0083 mg/L	0.00090	0.0083 mg/L	0.00090 10.85%
Ca	315.887	-0.5	-0.0002 mg/L	0.00330	-0.0002 mg/L	0.00330 >999.9%
Cd	317.933	5.1	0.0020 mg/L	0.00147	0.0020 mg/L	0.00147 74.23%
Co	214.440	41.0	0.0009 mg/L	0.00007	0.0009 mg/L	0.00007 7.78%
Cu	228.616	9.7	0.0004 mg/L	0.00012	0.0004 mg/L	0.00012 32.67%
Cr	267.716	13.5	0.0004 mg/L	0.00022	0.0004 mg/L	0.00022 63.32%
Cu	324.752	161.8	0.0005 mg/L	0.00064	0.0005 mg/L	0.00064 120.45%
Fe	238.204	59.1	0.0015 mg/L	0.00084	0.0015 mg/L	0.00084 56.45%
Fe	273.955	12.2	0.0007 mg/L	0.00126	0.0007 mg/L	0.00126 176.54%
K	766.490	-235.3	-0.0836 mg/L	0.05194	-0.0836 mg/L	0.05194 62.14%
Mg	279.077	3.6	0.0156 mg/L	0.01982	0.0156 mg/L	0.01982 127.21%
Mn	257.610	215.0	0.0005 mg/L	0.00003	0.0005 mg/L	0.00003 5.75%
Mo	202.031	15.6	0.0034 mg/L	0.00051	0.0034 mg/L	0.00051 14.93%
Na	589.592	-135.0	-0.0209 mg/L	0.01311	-0.0209 mg/L	0.01311 62.80%
Na	330.237	-1.3	-0.1653 mg/L	0.22270	-0.1653 mg/L	0.22270 134.71%
Ni	231.604	8.6	0.0005 mg/L	0.00016	0.0005 mg/L	0.00016 34.66%
Pb	220.353	-0.4	0.0000 mg/L	0.00077	0.0000 mg/L	0.00077 >999.9%
Sb	206.836	23.2	0.0208 mg/L	0.00091	0.0208 mg/L	0.00091 4.38%
Se	196.026	73.1	0.0093 mg/L	0.01087	0.0093 mg/L	0.01087 117.02%
Sn	189.927	-0.1	0.0000 mg/L	0.00087	0.0000 mg/L	0.00087 >999.9%
Sr	407.771	1028.8	0.0024 mg/L	0.00178	0.0024 mg/L	0.00178 73.22%
Sr	421.552	603.3	0.0025 mg/L	0.00199	0.0025 mg/L	0.00199 78.08%
Ti	334.940	467.7	0.0012 mg/L	0.00021	0.0012 mg/L	0.00021 17.38%
Tl	190.801	-3.9	-0.0007 mg/L	0.00374	-0.0007 mg/L	0.00374 527.00%
Tl	290.880	121.9	0.0008 mg/L	0.00040	0.0008 mg/L	0.00040 52.53%

zn 206.200	10.8	0.0007 mg/L	0.00013	0.0007 mg/L	0.00013	18.01%
QC value within limits for Zn 206.200 Recovery = Not calculated						
p 213.617	3.6	0.0027 mg/L	0.01009	0.0027 mg/L	0.01009	378.23%
si 251.611	-10.4	-0.0003 mg/L	0.00230	-0.0003 mg/L	0.00230	898.09%
si 670.784	-219.5	-0.0032 mg/L	0.00526	-0.0032 mg/L	0.00526	165.51%
si 610.362	84.1	0.0120 mg/L	0.01221	0.0120 mg/L	0.01221	102.09%
si 181.975	-4.3	-0.0175 mg/L	0.00556	-0.0175 mg/L	0.00556	31.72%

QC Failed. Continue with analysis.

ALAB:00132A.

Sequence No.: 10
 Sample ID: ICP_CCVGM(7-6-12)
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 10/17/2012 9:21:37 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICP_CCVGM(7-6-12)

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Ag 328.068	-22.8	-0.0002 mg/L	0.00058	0.00058	-0.0002 mg/L	0.00058	329.75%	
Al 308.215	-607.5	-0.0175 mg/L	0.00027	0.00027	-0.0175 mg/L	0.00027	1.56%	
As 188.979	18.6	0.0033 mg/L	0.00008	0.00008	0.0033 mg/L	0.00008	2.46%	
B 249.677	3420.1	0.0382 mg/L	0.00026	0.00026	0.0382 mg/L	0.00026	0.69%	
Be 233.527	67.1	0.0007 mg/L	0.00002	0.00002	0.0007 mg/L	0.00002	3.05%	
Bi 313.107	76.3	0.0000 mg/L	0.00001	0.00001	0.0000 mg/L	0.00001	21.10%	
Bi 223.061	6.4	0.0028 mg/L	0.00451	0.0028 mg/L	0.00451	0.00451	158.33%	
Bi 190.171	20.8	0.0252 mg/L	0.00005	0.0252 mg/L	0.00005	0.0252	0.19%	
Ca 315.887	210994.4	96.82 mg/L	0.080	96.82 mg/L	0.080	0.080	0.08%	
QC value within limits for Ca 315.887		Recovery = 96.82%						
Ca 317.933	249241.3	97.75 mg/L	0.138	97.75 mg/L	0.138	0.138	0.14%	
QC value within limits for Ca 317.933		Recovery = 97.75%						
Co 214.440	-14.3	-0.0003 mg/L	0.00003	-0.0003 mg/L	0.00003	0.00003	7.92%	
Co 228.616	5.2	0.0002 mg/L	0.00011	0.0002 mg/L	0.00011	0.00011	56.78%	
Cr 267.716	79.0	0.0021 mg/L	0.00023	0.0021 mg/L	0.00023	0.00023	11.18%	
Cu 324.752	831.3	0.0027 mg/L	0.00025	0.0027 mg/L	0.00025	0.00025	9.06%	
Fe 238.204	175.8	0.0045 mg/L	0.00016	0.0045 mg/L	0.00016	0.00016	3.63%	
Fe 273.955	-42.0	-0.0024 mg/L	0.00001	-0.0024 mg/L	0.00001	0.00001	0.55%	
K 766.490	275858.3	98.01 mg/L	0.460	98.01 mg/L	0.460	0.460	0.47%	
QC value within limits for K 766.490		Recovery = 98.01%						
Kg 279.077	23251.0	99.87 mg/L	0.598	99.87 mg/L	0.598	0.598	0.60%	
QC value within limits for Mg 279.077		Recovery = 99.87%						
Mn 257.610	1453.7	0.0033 mg/L	0.00002	0.0033 mg/L	0.00002	0.00002	0.55%	
Mo 202.031	30.1	0.0065 mg/L	0.00037	0.0065 mg/L	0.00037	0.00037	5.72%	
Na 589.592	633485.8	98.00 mg/L	0.720	98.00 mg/L	0.720	0.720	0.73%	
QC value within limits for Na 589.592		Recovery = 98.00%						
Na 330.237	781.5	100.6 mg/L	0.03	100.6 mg/L	0.03	0.03	0.03%	
QC value within limits for Na 330.237		Recovery = 100.61%						
Ni 231.604	10.3	0.0005 mg/L	0.00044	0.0005 mg/L	0.00044	0.00044	79.93%	
Nb 220.353	-6.8	-0.0003 mg/L	0.00404	-0.0003 mg/L	0.00404	0.00404	>999.9%	
Nb 206.836	-5.9	-0.0053 mg/L	0.00084	-0.0053 mg/L	0.00084	0.00084	15.72%	
Se 196.026	-63.2	-0.0080 mg/L	0.02935	-0.0080 mg/L	0.02935	0.02935	365.18%	
Sn 189.927	-92.1	-0.0300 mg/L	0.00344	-0.0300 mg/L	0.00344	0.00344	11.49%	
Sr 407.771	231.9	0.0005 mg/L	0.00000	0.0005 mg/L	0.00000	0.00000	0.35%	
Sr 421.552	92.5	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	0.00002	6.14%	
Ti 334.940	3532.2	0.0093 mg/L	0.00044	0.0093 mg/L	0.00044	0.00044	4.73%	
Tl 190.801	-62.5	-0.0113 mg/L	0.00503	-0.0113 mg/L	0.00503	0.00503	44.59%	
Tl 290.880	-309.9	-0.0020 mg/L	0.00036	-0.0020 mg/L	0.00036	0.00036	18.40%	
Tl 207.912	25.7	0.0103 mg/L	0.00101	0.0103 mg/L	0.00101	0.00101	9.81%	
Tl 371.029	1530.0				65.33	4.27%		
U 206.200	6.8	0.0005 mg/L	0.00024	0.0005 mg/L	0.00024	0.00024	51.36%	
U 213.617	-8.8	-0.0066 mg/L	0.00602	-0.0066 mg/L	0.00602	0.00602	91.44%	
U 251.611	455.7	0.0112 mg/L	0.00013	0.0112 mg/L	0.00013	0.00013	1.18%	
U 670.784	-1132.3	-0.0164 mg/L	0.00008	-0.0164 mg/L	0.00008	0.00008	0.50%	
U 610.362	-2698.6	-0.3838 mg/L	0.11840	-0.3838 mg/L	0.11840	0.11840	30.85%	
U 181.975	4.0	0.0162 mg/L	0.01895	0.0162 mg/L	0.01895	0.01895	116.71%	

All analyte(s) passed QC.

ALAB: 00133

Sequence No.: 11

Sample ID: ICP_CCB(Daily)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 10/17/2012 9:24:13 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP_CCB(Daily)

Analyste	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	65.0	0.0005 mg/L	0.00027	0.0005 mg/L	0.00027	53.44%
Al 308.215	-131.6	-0.0038 mg/L	0.00022	-0.0038 mg/L	0.00022	5.66%
As 188.979	-15.1	-0.0027 mg/L	0.00107	-0.0027 mg/L	0.00107	39.89%
B 249.677	2744.6	0.0307 mg/L	0.00018	0.0307 mg/L	0.00018	0.60%
Ba 233.527	11.8	0.0001 mg/L	0.00005	0.0001 mg/L	0.00005	40.18%
Be 313.107	-3.3	0.0000 mg/L	0.00005	0.0000 mg/L	0.00005	>999.9%
Bi 223.061	-3.8	-0.0017 mg/L	0.00315	-0.0017 mg/L	0.00315	183.46%
Bi 190.171	5.3	0.0065 mg/L	0.00297	0.0065 mg/L	0.00297	45.95%
Ca 315.887	81.0	0.0372 mg/L	0.00745	0.0372 mg/L	0.00745	20.05%
Ca 317.933	101.5	0.0398 mg/L	0.00412	0.0398 mg/L	0.00412	10.35%
Cd 214.440	19.0	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	4.84%
Co 228.616	-2.1	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	52.79%
Cr 267.716	5.5	0.0001 mg/L	0.00026	0.0001 mg/L	0.00026	184.01%
Cu 324.752	44.4	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	52.25%
Fe 238.204	-6.8	-0.0002 mg/L	0.00006	-0.0002 mg/L	0.00006	37.12%
Fe 273.955	-8.0	-0.0005 mg/L	0.00021	-0.0005 mg/L	0.00021	44.83%
Fe 766.490	163.5	0.0581 mg/L	0.00226	0.0581 mg/L	0.00226	8.81%
Ga 279.077	15.3	0.0655 mg/L	0.00578	0.0655 mg/L	0.00578	16.90%
In 257.610	17.4	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	35.96%
Mo 202.031	4.1	0.0009 mg/L	0.00032	0.0009 mg/L	0.00032	
QC value less than the lower limit for Mo 202.031			Recovery = 0.09%			
La 589.592	379.6	0.0587 mg/L	0.01016	0.0587 mg/L	0.01016	17.30%
La 330.237	6.4	0.8254 mg/L	0.52452	0.8254 mg/L	0.52452	63.55%
Li 231.604	7.7	0.0004 mg/L	0.00014	0.0004 mg/L	0.00014	33.55%
Pb 220.353	-21.1	-0.0010 mg/L	0.00290	-0.0010 mg/L	0.00290	279.63%
Pb 206.836	7.2	0.0064 mg/L	0.00288	0.0064 mg/L	0.00288	44.85%
QC value less than the lower limit for Sb 206.836			Recovery = 0.64%			
Se 196.026	124.0	0.0158 mg/L	0.01744	0.0158 mg/L	0.01744	110.68%
Sn 189.927	4.4	0.0014 mg/L	0.00074	0.0014 mg/L	0.00074	51.37%
Sn 407.771	0.0	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	>999.9%
Sn 421.552	9.0	0.0000 mg/L	0.00038	0.0000 mg/L	0.00038	990.61%
Si 334.940	134.3	0.0004 mg/L	0.00008	0.0004 mg/L	0.00008	22.57%
Sl 190.801	-17.4	-0.0031 mg/L	0.00102	-0.0031 mg/L	0.00102	32.43%
Sn 290.880	149.6	0.0009 mg/L	0.00013	0.0009 mg/L	0.00013	13.30%
Sn 207.912	2.9	0.0012 mg/L	0.00012	0.0012 mg/L	0.00012	10.60%
Sn 371.029	1577.4				101.55	6.44%
Sn 206.200	3.8	0.0003 mg/L	0.00007	0.0003 mg/L	0.00007	28.42%
Sn 213.617	-3.6	-0.0027 mg/L	0.00083	-0.0027 mg/L	0.00083	30.76%
Si 251.611	-97.5	-0.0024 mg/L	0.00044	-0.0024 mg/L	0.00044	18.17%
Si 670.784	-619.5	-0.0090 mg/L	0.00474	-0.0090 mg/L	0.00474	52.77%
Si 610.362	-14.6	-0.0021 mg/L	0.05364	-0.0021 mg/L	0.05364	>999.9%
Si 181.975	-8.6	-0.0353 mg/L	0.02734	-0.0353 mg/L	0.02734	77.39%

C Failed. Continue with analysis.

ALAB: 00134

Sequence No.: 13

Sample ID: ICSA(3-22-12)

Analyst: nina

Initial Sample Wt:

Dilution:

Autosampler Location: 12

Date Collected: 10/17/2012 9:35:01 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICSA(3-22-12)

	Mean Corrected	Calib		Sample		
analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
ug 328.068	356.7	0.0027 mg/L	0.00071	0.0027 mg/L	0.00071	25.99%
al 308.215	11923870.5	344.1 mg/L	9.25	344.1 mg/L	9.25	2.69%
as 188.979	-89.8	-0.0160 mg/L	0.01190	-0.0160 mg/L	0.01190	74.49%
a 249.677	-1663.1	-0.0186 mg/L	0.00259	-0.0186 mg/L	0.00259	13.95%
la 233.527	659.2	0.0064 mg/L	0.00063	0.0064 mg/L	0.00063	9.84%
le 313.107	-640.2	-0.0003 mg/L	0.00007	-0.0003 mg/L	0.00007	26.38%
li 223.061	98.0	0.0438 mg/L	0.00294	0.0438 mg/L	0.00294	6.71%
li 190.171	87.4	0.1060 mg/L	0.00070	0.1060 mg/L	0.00070	0.66%
la 315.887	897645.4	411.9 mg/L	12.85	411.9 mg/L	12.85	3.12%
la 317.933	1053240.1	413.1 mg/L	12.60	413.1 mg/L	12.60	3.05%
id 214.440	180.3	0.0041 mg/L	0.00028	0.0041 mg/L	0.00028	6.79%
io 228.616	36.6	0.0014 mg/L	0.00004	0.0014 mg/L	0.00004	2.81%
ir 267.716	242.7	0.0063 mg/L	0.00039	0.0063 mg/L	0.00039	6.11%
iu 324.752	-2334.9	-0.0076 mg/L	0.00046	-0.0076 mg/L	0.00046	5.99%
ie 238.204	4976541.2	126.0 mg/L	1.95	126.0 mg/L	1.95	1.55%
ie 273.955	2394387.4	139.3 mg/L	0.75	139.3 mg/L	0.75	0.54%
i 766.490	790.8	0.2810 mg/L	0.06462	0.2810 mg/L	0.06462	23.00%
ig 279.077	100308.5	430.9 mg/L	15.77	430.9 mg/L	15.77	3.66%
in 257.610	654.4	0.0015 mg/L	0.00036	0.0015 mg/L	0.00036	24.13%
io 202.031	44.7	0.0097 mg/L	0.00186	0.0097 mg/L	0.00186	19.19%
ia 589.592	1047.7	0.1621 mg/L	0.00486	0.1621 mg/L	0.00486	3.00%
ia 330.237	18.8	2.419 mg/L	0.2233	2.419 mg/L	0.2233	9.23%
li 231.604	19.4	0.0010 mg/L	0.00049	0.0010 mg/L	0.00049	47.55%
ib 220.353	-35.5	-0.0017 mg/L	0.00368	-0.0017 mg/L	0.00368	211.77%
ib 206.836	-36.2	-0.0325 mg/L	0.00785	-0.0325 mg/L	0.00785	24.14%
ie 196.026	-642.9	-0.0817 mg/L	0.04929	-0.0817 mg/L	0.04929	60.32%
in 189.927	-58.1	-0.0189 mg/L	0.00815	-0.0189 mg/L	0.00815	43.07%
ir 407.771	3494.8	0.0083 mg/L	0.00001	0.0083 mg/L	0.00001	0.10%
ir 421.552	1958.9	0.0083 mg/L	0.00001	0.0083 mg/L	0.00001	0.14%
ii 334.940	4029.5	0.0106 mg/L	0.00020	0.0106 mg/L	0.00020	1.90%
il 190.801	-119.2	-0.0215 mg/L	0.00133	-0.0215 mg/L	0.00133	6.21%
i 290.880	328.4	-0.0075 mg/L	0.00133	-0.0075 mg/L	0.00133	17.66%
i 207.912	169.8	0.0678 mg/L	0.00203	0.0678 mg/L	0.00203	2.99%
i 371.029	1382.3				6.76	0.49%
in 206.200	69.2	0.0046 mg/L	0.00042	0.0046 mg/L	0.00042	9.00%
i 213.617	-93.2	-0.0697 mg/L	0.00930	-0.0697 mg/L	0.00930	13.34%
ii 251.611	694.8	0.0172 mg/L	0.01161	0.0172 mg/L	0.01161	67.70%
ii 670.784	-233.3	-0.0034 mg/L	0.01119	-0.0034 mg/L	0.01119	331.08%
ii 610.362	-7930.2	-1.128 mg/L	0.0063	-1.128 mg/L	0.0063	0.56%
i 181.975	-59.4	-0.2434 mg/L	0.02289	-0.2434 mg/L	0.02289	9.41%

ALAB: 00135

Sequence No.: 14
 Sample ID: ICSAB(3-22-12)
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 13
 Date Collected: 10/17/2012 9:37:39 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICSAB(3-22-12)

	Mean Corrected	Calib		Sample		
Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
g 328.068	142176.5	1.088 mg/L	0.0092	1.088 mg/L	0.0092	0.85%
l 308.215	12523670.3	361.4 mg/L	14.88	361.4 mg/L	14.88	4.12%
s 188.979	-167.3	-0.0298 mg/L	0.00033	-0.0298 mg/L	0.00033	1.10%
s 249.677	-216.9	-0.0024 mg/L	0.00285	-0.0024 mg/L	0.00285	117.83%
a 233.527	53486.1	0.5183 mg/L	0.01261	0.5183 mg/L	0.01261	2.43%
e 313.107	1138424.4	0.4955 mg/L	0.00721	0.4955 mg/L	0.00721	1.46%
i 223.061	21.5	0.0096 mg/L	0.00922	0.0096 mg/L	0.00922	95.92%
i 190.171	59.9	0.0726 mg/L	0.00708	0.0726 mg/L	0.00708	9.74%
a 315.887	945789.4	434.0 mg/L	16.59	434.0 mg/L	16.59	3.82%
a 317.933	1104407.8	433.2 mg/L	16.91	433.2 mg/L	16.91	3.90%
d 214.440	41046.8	0.9415 mg/L	0.01490	0.9415 mg/L	0.01490	1.58%
o 228.616	11496.9	0.4390 mg/L	0.00168	0.4390 mg/L	0.00168	0.38%
r 267.716	19162.6	0.4977 mg/L	0.01616	0.4977 mg/L	0.01616	3.25%
u 324.752	152732.1	0.4994 mg/L	0.00646	0.4994 mg/L	0.00646	1.29%
e 238.204	5161788.4	130.7 mg/L	2.31	130.7 mg/L	2.31	1.76%
e 273.955	2490452.9	144.9 mg/L	3.22	144.9 mg/L	3.22	2.22%
g 766.490	922.9	0.3279 mg/L	0.26416	0.3279 mg/L	0.26416	80.56%
g 279.077	105378.5	452.6 mg/L	17.40	452.6 mg/L	17.40	3.84%
n 257.610	208237.3	0.4749 mg/L	0.00878	0.4749 mg/L	0.00878	1.85%
o 202.031	37.9	0.0082 mg/L	0.00224	0.0082 mg/L	0.00224	27.27%
a 589.592	1254.6	0.1941 mg/L	0.00345	0.1941 mg/L	0.00345	1.78%
a 330.237	10.3	1.325 mg/L	0.3114	1.325 mg/L	0.3114	23.50%
i 231.604	16478.2	0.8713 mg/L	0.00412	0.8713 mg/L	0.00412	0.47%
b 220.353	17792.8	0.8716 mg/L	0.00768	0.8716 mg/L	0.00768	0.88%
b 206.836	-36.4	-0.0327 mg/L	0.00841	-0.0327 mg/L	0.00841	25.74%
e 196.026	-448.2	-0.0570 mg/L	0.02446	-0.0570 mg/L	0.02446	42.95%
n 189.927	-142.9	-0.0465 mg/L	0.00282	-0.0465 mg/L	0.00282	6.06%
r 407.771	3952.5	0.0093 mg/L	0.00003	0.0093 mg/L	0.00003	0.33%
r 421.552	2218.4	0.0094 mg/L	0.00005	0.0094 mg/L	0.00005	0.53%
i 334.940	3949.7	0.0104 mg/L	0.00126	0.0104 mg/L	0.00126	12.13%
l 190.801	-127.3	-0.0230 mg/L	0.01012	-0.0230 mg/L	0.01012	44.05%
290.880	80161.8	0.4966 mg/L	0.00748	0.4966 mg/L	0.00748	1.51%
207.912	131.4	0.0525 mg/L	0.00178	0.0525 mg/L	0.00178	3.39%
371.029	1510.8				125.47	8.31%
n 206.200	13371.2	0.8973 mg/L	0.00317	0.8973 mg/L	0.00317	0.35%
213.617	-818.7	-0.6123 mg/L	0.01665	-0.6123 mg/L	0.01665	2.72%
i 251.611	464.0	0.0115 mg/L	0.00061	0.0115 mg/L	0.00061	5.36%
i 670.784	19.6	0.0003 mg/L	0.00544	0.0003 mg/L	0.00544	>999.9%
i 610.362	-8046.3	-1.144 mg/L	0.1145	-1.144 mg/L	0.1145	10.01%
181.975	-55.3	-0.2267 mg/L	0.03595	-0.2267 mg/L	0.03595	15.86%

ALAB: 00136

Sequence No.: 22

Sample ID: ICP_CCV(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 10/17/2012 10:08:26 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Sample Data: ICP_CCV(7-6-12)

Element	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag	70130.1	0.5368 mg/L		0.01902	0.5368 mg/L	0.01902	3.54%
QC value within limits for Ag	328.068	107.35%					
Al	35733.8	1.031 mg/L		0.0202	1.031 mg/L	0.0202	1.96%
QC value within limits for Al	308.215	103.13%					
As	5897.0	1.050 mg/L		0.0086	1.050 mg/L	0.0086	0.82%
QC value within limits for As	188.979	104.97%					
B	102150.8	1.141 mg/L		0.0397	1.141 mg/L	0.0397	3.48%
QC value greater than the upper limit for B	249.677	114.13%					
Ba	112863.4	1.094 mg/L		0.0333	1.094 mg/L	0.0333	3.04%
QC value within limits for Ba	233.527	109.36%					
Be	2395443.9	1.043 mg/L		0.0339	1.043 mg/L	0.0339	3.25%
QC value within limits for Be	313.107	104.27%					
Bi	-75.4	-0.0337 mg/L		0.00149	-0.0337 mg/L	0.00149	4.44%
i	11.1	0.0134 mg/L		0.00234	0.0134 mg/L	0.00234	17.42%
a	2394.6	1.099 mg/L		0.0090	1.099 mg/L	0.0090	0.82%
i	2829.2	1.110 mg/L		0.0072	1.110 mg/L	0.0072	0.65%
a	45574.6	1.045 mg/L		0.0336	1.045 mg/L	0.0336	3.21%
QC value within limits for Cd	214.440	104.54%					
Co	27145.5	1.036 mg/L		0.0375	1.036 mg/L	0.0375	3.62%
QC value within limits for Co	228.616	103.65%					
Cr	41931.5	1.089 mg/L		0.0341	1.089 mg/L	0.0341	3.13%
QC value within limits for Cr	267.716	108.91%					
Cu	308506.7	1.009 mg/L		0.0295	1.009 mg/L	0.0295	2.92%
QC value within limits for Cu	324.752	100.87%					
Fe	42666.5	1.081 mg/L		0.0386	1.081 mg/L	0.0386	3.58%
QC value within limits for Fe	238.204	108.06%					
Fe	18106.1	1.053 mg/L		0.0189	1.053 mg/L	0.0189	1.80%
QC value within limits for Fe	273.955	105.33%					
Mn	26233.5	9.321 mg/L		0.5659	9.321 mg/L	0.5659	6.07%
QC value within limits for Mn	766.490	1.08%					
Mn	268.5	1.153 mg/L		0.0125	1.153 mg/L	0.0125	1.08%
QC value within limits for Mn	279.077	106.56%					
Mn	467225.2	1.066 mg/L		0.0359	1.066 mg/L	0.0359	3.37%
QC value within limits for Mn	257.610	106.56%					
Mo	4692.6	1.019 mg/L		0.0441	1.019 mg/L	0.0441	4.32%
QC value within limits for Mo	202.031	101.90%					
Ni	5898.7	0.9126 mg/L		0.04297	0.9126 mg/L	0.04297	4.71%
QC value within limits for Ni	589.592	105.26%					
Pb	-8.1	-1.042 mg/L		0.6518	-1.042 mg/L	0.6518	62.57%
QC value less than the lower limit for Pb	330.237	88.66%					
Pb	19907.7	1.053 mg/L		0.0422	1.053 mg/L	0.0422	4.01%
QC value within limits for Pb	231.604	105.26%					
Pb	21052.6	1.031 mg/L		0.0339	1.031 mg/L	0.0339	3.28%
QC value within limits for Pb	220.353	103.13%					
Sb	1146.8	1.029 mg/L		0.0006	1.029 mg/L	0.0006	0.06%
QC value within limits for Sb	206.836	102.86%					
Se	8490.9	1.079 mg/L		0.0080	1.079 mg/L	0.0080	0.74%
QC value within limits for Se	196.026	107.92%					
Sr	-9.2	-0.0030 mg/L		0.00004	-0.0030 mg/L	0.00004	1.48%
QC value less than the lower limit for Sr	189.927	88.66%					
Sr	374961.6	0.8866 mg/L		0.04960	0.8866 mg/L	0.04960	5.59%
QC value less than the lower limit for Sr	407.771	88.66%					
Sr	211340.2	0.8923 mg/L		0.04544	0.8923 mg/L	0.04544	5.09%
QC value less than the lower limit for Sr	421.552	89.23%					
Ti	409307.2	1.077 mg/L		0.0405	1.077 mg/L	0.0405	3.76%
QC value within limits for Ti	334.940	107.70%					
Tl	6031.5	1.088 mg/L		0.0081	1.088 mg/L	0.0081	0.75%
QC value within limits for Tl	190.801	108.81%					
V	164704.7	1.041 mg/L		0.0309	1.041 mg/L	0.0309	2.97%
QC value within limits for V	290.880	104.08%					
Zn	44.3	0.0177 mg/L		0.00040	0.0177 mg/L	0.00040	2.24%
QC value within limits for Zn	207.912	103.11%					
Zn	1813.2	1.031 mg/L		0.0401	1.031 mg/L	0.0401	3.89%
QC value within limits for Zn	206.200	103.11%					
Zn	-1878.4	-1.405 mg/L		0.0839	-1.405 mg/L	0.0839	5.97%
QC value within limits for Zn	213.617	103.11%					
Si	40282.3	0.9944 mg/L		0.02863	0.9944 mg/L	0.02863	2.88%
QC value within limits for Si	251.611	99.44%					
Si	58337.7	0.8451 mg/L		0.04019	0.8451 mg/L	0.04019	4.76%
QC value within limits for Si	670.784	99.44%					

CONFIDENTIAL

LMC-PET-00001415

Sequence No.: 23

Sample ID: ICP_CCVGM(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 10/17/2012 10:11:00 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP_CCVGM(7-6-12)

Analyte	Mean Corrected		Calib		Sample		Std.Dev.	RSD
	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD		
g 328.068	181.9	0.0014 mg/L	0.00039	0.0014 mg/L	0.00039	27.72%		
l 308.215	-486.9	-0.0141 mg/L	0.00188	-0.0141 mg/L	0.00188	13.36%		
s 188.979	21.6	0.0038 mg/L	0.00289	0.0038 mg/L	0.00289	75.03%		
249.677	12459.4	0.1392 mg/L	0.00118	0.1392 mg/L	0.00118	0.84%		
a 233.527	94.0	0.0009 mg/L	0.00020	0.0009 mg/L	0.00020	21.69%		
e 313.107	556.2	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	20.67%		
i 223.061	-4.2	-0.0019 mg/L	0.00275	-0.0019 mg/L	0.00275	147.46%		
i 190.171	19.2	0.0233 mg/L	0.00600	0.0233 mg/L	0.00600	25.74%		
a 315.887	229150.4	105.2 mg/L	9.48	105.2 mg/L	9.48	9.01%		
QC value within limits for Ca 315.887 Recovery = 105.15%								
a 317.933	267748.7	105.0 mg/L	9.42	105.0 mg/L	9.42	8.97%		
QC value within limits for Ca 317.933 Recovery = 105.01%								
d 214.440	56.9	0.0013 mg/L	0.00003	0.0013 mg/L	0.00003	1.93%		
o 228.616	19.5	0.0007 mg/L	0.00024	0.0007 mg/L	0.00024	31.96%		
r 267.716	92.1	0.0024 mg/L	0.00027	0.0024 mg/L	0.00027	11.24%		
u 324.752	974.9	0.0032 mg/L	0.00012	0.0032 mg/L	0.00012	3.84%		
e 238.204	251.1	0.0064 mg/L	0.00031	0.0064 mg/L	0.00031	4.95%		
e 273.955	-25.0	-0.0015 mg/L	0.00025	-0.0015 mg/L	0.00025	17.39%		
766.490	295062.5	104.8 mg/L	9.51	104.8 mg/L	9.51	9.07%		
QC value within limits for K 766.490 Recovery = 104.84%								
g 279.077	24820.7	106.6 mg/L	0.72	106.6 mg/L	0.72	0.68%		
QC value within limits for Mg 279.077 Recovery = 106.61%								
n 257.610	1646.2	0.0038 mg/L	0.00006	0.0038 mg/L	0.00006	1.65%		
o 202.031	35.7	0.0077 mg/L	0.00159	0.0077 mg/L	0.00159	20.51%		
a 589.592	682736.0	105.6 mg/L	9.80	105.6 mg/L	9.80	9.28%		
QC value within limits for Na 589.592 Recovery = 105.62%								
a 330.237	809.8	104.2 mg/L	1.13	104.2 mg/L	1.13	1.08%		
QC value within limits for Na 330.237 Recovery = 104.25%								
i 231.604	16.3	0.0009 mg/L	0.00005	0.0009 mg/L	0.00005	6.31%		
o 220.353	43.2	0.0021 mg/L	0.00148	0.0021 mg/L	0.00148	69.75%		
o 206.836	11.0	0.0099 mg/L	0.00080	0.0099 mg/L	0.00080	8.06%		
e 196.026	33.5	0.0043 mg/L	0.02523	0.0043 mg/L	0.02523	592.73%		
r 189.927	-90.9	-0.0296 mg/L	0.00141	-0.0296 mg/L	0.00141	4.76%		
r 407.771	366.8	0.0009 mg/L	0.00009	0.0009 mg/L	0.00009	9.87%		
r 421.552	180.1	0.0008 mg/L	0.00007	0.0008 mg/L	0.00007	8.64%		
i 334.940	3812.6	0.0100 mg/L	0.00011	0.0100 mg/L	0.00011	1.14%		
l 190.801	-50.5	-0.0091 mg/L	0.00269	-0.0091 mg/L	0.00269	29.53%		
290.880	-170.4	-0.0011 mg/L	0.00058	-0.0011 mg/L	0.00058	53.97%		
207.912	30.2	0.0120 mg/L	0.00284	0.0120 mg/L	0.00284	23.61%		
371.029	1534.6				43.98	2.87%		
o 206.200	15.7	0.0011 mg/L	0.00022	0.0011 mg/L	0.00022	20.83%		
213.617	-9.3	-0.0069 mg/L	0.00179	-0.0069 mg/L	0.00179	25.91%		
i 251.611	482.9	0.0119 mg/L	0.00036	0.0119 mg/L	0.00036	3.01%		
i 670.784	-236.6	-0.0034 mg/L	0.00044	-0.0034 mg/L	0.00044	12.79%		
i 610.362	-1624.9	-0.2311 mg/L	0.04871	-0.2311 mg/L	0.04871	21.08%		
181.975	6.8	0.0278 mg/L	0.03137	0.0278 mg/L	0.03137	112.95%		

11 analyte(s) passed QC.

ALAB: 00138

Sequence No.: 24
 Sample ID: ICP_CCB(Daily)
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 10/17/2012 10:13:35 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICP_CCB(Daily)

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Ag 328.068	1533.6	0.0117 mg/L	0.00075	0.0117 mg/L	0.00075	6.37%		
Al 308.215	-136.7	-0.0039 mg/L	0.00088	-0.0039 mg/L	0.00088	22.37%		
As 188.979	12.6	0.0022 mg/L	0.00001	0.0022 mg/L	0.00001	0.59%		
B 249.677	11495.6	0.1284 mg/L	0.00007	0.1284 mg/L	0.00007	0.06%		
Ba 233.527	33.4	0.0003 mg/L	0.00011	0.0003 mg/L	0.00011	34.63%		
Be 313.107	184.0	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	33.12%		
Bi 223.061	-11.4	-0.0051 mg/L	0.00527	-0.0051 mg/L	0.00527	103.54%		
Bi 190.171	4.3	0.0052 mg/L	0.00818	0.0052 mg/L	0.00818	156.36%		
Ba 315.887	92.3	0.0424 mg/L	0.00903	0.0424 mg/L	0.00903	21.32%		
Ba 317.933	115.6	0.0453 mg/L	0.00278	0.0453 mg/L	0.00278	6.13%		
Bd 214.440	64.0	0.0015 mg/L	0.00004	0.0015 mg/L	0.00004	2.85%		
Bo 228.616	13.7	0.0005 mg/L	0.00031	0.0005 mg/L	0.00031	58.20%		
Br 267.716	15.0	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	6.39%		
Bu 324.752	94.5	0.0003 mg/L	0.00024	0.0003 mg/L	0.00024	77.63%		
Ca 238.204	36.1	0.0009 mg/L	0.00005	0.0009 mg/L	0.00005	5.85%		
Ca 273.955	9.2	0.0005 mg/L	0.00065	0.0005 mg/L	0.00065	121.81%		
Ca 766.490	158.4	0.0563 mg/L	0.00948	0.0563 mg/L	0.00948	16.85%		
Ca 279.077	19.3	0.0828 mg/L	0.00585	0.0828 mg/L	0.00585	7.06%		
Ca 257.610	79.3	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	5.15%		
Ca 202.031	7.8	0.0017 mg/L	0.00040	0.0017 mg/L	0.00040	23.90%		
QC value less than the lower limit for Mo 202.031 Recovery = 0.17%								
Ca 589.592	-1.7	-0.0003 mg/L	0.02340	-0.0003 mg/L	0.02340	>999.9%		
Ca 330.237	1.7	0.2224 mg/L	0.60320	0.2224 mg/L	0.60320	271.20%		
Ca 231.604	6.8	0.0004 mg/L	0.00019	0.0004 mg/L	0.00019	53.78%		
Ca 220.353	21.4	0.0010 mg/L	0.00095	0.0010 mg/L	0.00095	90.61%		
Ca 206.836	9.0	0.0081 mg/L	0.00127	0.0081 mg/L	0.00127	15.66%		
QC value less than the lower limit for Sb 206.836 Recovery = 0.81%								
Ca 196.026	-114.6	-0.0146 mg/L	0.01037	-0.0146 mg/L	0.01037	71.25%		
Ca 189.927	5.6	0.0018 mg/L	0.00100	0.0018 mg/L	0.00100	55.42%		
Ca 407.771	83.0	0.0002 mg/L	0.00014	0.0002 mg/L	0.00014	68.93%		
Ca 421.552	-6.6	0.0000 mg/L	0.00011	0.0000 mg/L	0.00011	396.36%		
Ca 334.940	138.2	0.0004 mg/L	0.00014	0.0004 mg/L	0.00014	37.22%		
Ca 190.801	5.3	0.0010 mg/L	0.00356	0.0010 mg/L	0.00356	371.58%		
Ca 290.880	70.9	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	5.02%		
Ca 207.912	4.5	0.0018 mg/L	0.00040	0.0018 mg/L	0.00040	21.81%		
Ca 371.029	1526.8				93.07	6.10%		
Ca 206.200	7.3	0.0005 mg/L	0.00015	0.0005 mg/L	0.00015	30.43%		
Ca 213.617	6.6	0.0049 mg/L	0.00278	0.0049 mg/L	0.00278	56.12%		
Ca 251.611	-149.2	-0.0037 mg/L	0.00012	-0.0037 mg/L	0.00012	3.15%		
Ca 670.784	-16.6	-0.0002 mg/L	0.00349	-0.0002 mg/L	0.00349	>999.9%		
Ca 610.362	3.5	0.0005 mg/L	0.01478	0.0005 mg/L	0.01478	>999.9%		
Ca 181.975	-6.8	-0.0277 mg/L	0.01447	-0.0277 mg/L	0.01447	52.29%		

QC Failed. Continue with analysis.

ALAB: 00139

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Analysis Begun

Start Time: 10/17/2012 10:35:35 AM Plasma On Time: 10/17/2012 7:49:05 AM
 Logged In Analyst: kedy Technique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif
 Batch ID: 10-17-12
 Results Data Set: 10-17-12
 Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 30 Autosampler Location: 26
 Sample ID: 0.5 ppm CAM(daily) Date Collected: 10/17/2012 10:35:35 AM
 Analyst: nina Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

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Mean Data: 0.5 ppm CAM(daily)

Mean Corrected	Calib	Sample	Std.Dev.	Std.Dev.	RSD
Intensity	Conc. Units	Conc. Units			
34714.7	0.2657 mg/L	0.2657 mg/L	0.00017	0.00017	0.06%
17908.1	0.5168 mg/L	0.5168 mg/L	0.00288	0.00288	0.56%
2913.5	0.5186 mg/L	0.5186 mg/L	0.00327	0.00327	0.63%
50767.4	0.5672 mg/L	0.5672 mg/L	0.00025	0.00025	0.04%
56142.2	0.5440 mg/L	0.5440 mg/L	0.00002	0.00002	0.00%
1110629.7	0.4834 mg/L	0.4834 mg/L	0.01059	0.01059	2.19%
-35.1	-0.0157 mg/L	-0.0157 mg/L	0.00260	0.00260	16.58%
9.5	0.0115 mg/L	0.0115 mg/L	0.00243	0.00243	21.15%
1124.5	0.5160 mg/L	0.5160 mg/L	0.00740	0.00740	1.43%
1333.3	0.5229 mg/L	0.5229 mg/L	0.00904	0.00904	1.73%
22508.9	0.5163 mg/L	0.5163 mg/L	0.00323	0.00323	0.63%
13532.2	0.5167 mg/L	0.5167 mg/L	0.00459	0.00459	0.89%
20418.5	0.5303 mg/L	0.5303 mg/L	0.00410	0.00410	0.77%
158852.1	0.5194 mg/L	0.5194 mg/L	0.00019	0.00019	0.04%
21248.5	0.5381 mg/L	0.5381 mg/L	0.00030	0.00030	0.06%
8983.6	0.5226 mg/L	0.5226 mg/L	0.00635	0.00635	1.22%
13772.1	4.893 mg/L	4.893 mg/L	0.1033	0.1033	2.11%
134.7	0.5785 mg/L	0.5785 mg/L	0.03680	0.03680	6.36%
229503.5	0.5234 mg/L	0.5234 mg/L	0.00973	0.00973	1.86%
2119.7	0.4603 mg/L	0.4603 mg/L	0.00010	0.00010	0.02%
3163.8	0.4894 mg/L	0.4894 mg/L	0.02015	0.02015	4.12%
-12.2	-1.565 mg/L	-1.565 mg/L	0.0903	0.0903	5.77%
9973.5	0.5273 mg/L	0.5273 mg/L	0.00085	0.00085	0.16%
10458.8	0.5124 mg/L	0.5124 mg/L	0.00512	0.00512	1.00%
546.9	0.4905 mg/L	0.4905 mg/L	0.00999	0.00999	2.04%
3882.7	0.4935 mg/L	0.4935 mg/L	0.00776	0.00776	1.57%
-5.6	-0.0018 mg/L	-0.0018 mg/L	0.00055	0.00055	30.51%
222386.2	0.5258 mg/L	0.5258 mg/L	0.02296	0.02296	4.37%
125181.4	0.5285 mg/L	0.5285 mg/L	0.02081	0.02081	3.94%
199157.4	0.5240 mg/L	0.5240 mg/L	0.01057	0.01057	2.02%
3059.5	0.5519 mg/L	0.5519 mg/L	0.00554	0.00554	1.00%
79687.8	0.5036 mg/L	0.5036 mg/L	0.00014	0.00014	0.03%
12.9	0.0052 mg/L	0.0052 mg/L	0.00273	0.00273	52.99%
1520.9				11.56	0.76%
7595.8	0.5097 mg/L	0.5097 mg/L	0.00656	0.00656	1.29%
-914.4	-0.6838 mg/L	-0.6838 mg/L	0.00489	0.00489	0.72%
20297.9	0.5011 mg/L	0.5011 mg/L	0.01390	0.01390	2.77%
32175.9	0.4661 mg/L	0.4661 mg/L	0.01474	0.01474	3.16%
4075.9	0.5797 mg/L	0.5797 mg/L	0.20055	0.20055	34.59%
-3.0	-0.0122 mg/L	-0.0122 mg/L	0.01155	0.01155	94.27%

ALAB: 00140

Sequence No.: 31
 Sample ID: CCB(daily)
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 10/17/2012 10:38:12 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB(daily)

Analyste	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	4799.7	0.0367 mg/L	0.00359	0.0367 mg/L	0.00359	9.79%
Al 308.215	18.6	0.0005 mg/L	0.00062	0.0005 mg/L	0.00062	116.33%
As 188.979	-5.0	-0.0009 mg/L	0.00049	-0.0009 mg/L	0.00049	54.44%
B 249.677	6468.5	0.0723 mg/L	0.00205	0.0723 mg/L	0.00205	2.84%
Ba 233.527	53.4	0.0005 mg/L	0.00005	0.0005 mg/L	0.00005	8.84%
Be 313.107	429.3	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	23.93%
Bi 223.061	-3.3	-0.0015 mg/L	0.00061	-0.0015 mg/L	0.00061	41.30%
Bi 190.171	7.8	0.0095 mg/L	0.01024	0.0095 mg/L	0.01024	108.07%
Ca 315.887	-3.3	-0.0015 mg/L	0.00568	-0.0015 mg/L	0.00568	379.45%
Ca 317.933	14.4	0.0056 mg/L	0.00258	0.0056 mg/L	0.00258	45.68%
Cd 214.440	34.2	0.0008 mg/L	0.00005	0.0008 mg/L	0.00005	6.07%
Co 228.616	4.9	0.0002 mg/L	0.00010	0.0002 mg/L	0.00010	55.41%
Cr 267.716	10.4	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	6.89%
Cu 324.752	207.6	0.0007 mg/L	0.00009	0.0007 mg/L	0.00009	13.18%
Fe 238.204	87.5	0.0022 mg/L	0.00026	0.0022 mg/L	0.00026	11.56%
Fe 273.955	27.8	0.0016 mg/L	0.00033	0.0016 mg/L	0.00033	20.48%
Fe 766.490	-246.5	-0.0876 mg/L	0.04660	-0.0876 mg/L	0.04660	53.21%
Hg 279.077	6.6	0.0282 mg/L	0.00774	0.0282 mg/L	0.00774	27.49%
In 257.610	118.8	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	8.11%
Io 202.031	12.9	0.0028 mg/L	0.00073	0.0028 mg/L	0.00073	26.02%
Ia 589.592	-347.2	-0.0537 mg/L	0.02200	-0.0537 mg/L	0.02200	40.96%
Ia 330.237	3.3	0.4195 mg/L	0.71473	0.4195 mg/L	0.71473	170.37%
Ii 231.604	2.8	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	19.87%
Ib 220.353	75.1	0.0037 mg/L	0.00076	0.0037 mg/L	0.00076	20.68%
Ib 206.836	26.5	0.0238 mg/L	0.00509	0.0238 mg/L	0.00509	21.39%
Ie 196.026	38.6	0.0049 mg/L	0.00684	0.0049 mg/L	0.00684	139.63%
In 189.927	-0.8	-0.0003 mg/L	0.00075	-0.0003 mg/L	0.00075	277.12%
Ir 407.771	215.1	0.0005 mg/L	0.00023	0.0005 mg/L	0.00023	45.05%
Ir 421.552	102.3	0.0004 mg/L	0.00008	0.0004 mg/L	0.00008	17.59%
Ii 334.940	288.5	0.0008 mg/L	0.00021	0.0008 mg/L	0.00021	27.35%
Li 190.801	-2.4	-0.0004 mg/L	0.00748	-0.0004 mg/L	0.00748	>999.9%
Li 290.880	174.7	0.0011 mg/L	0.00079	0.0011 mg/L	0.00079	71.49%
Li 207.912	2.8	0.0011 mg/L	0.00059	0.0011 mg/L	0.00059	52.63%
Li 371.029	1675.8				109.65	6.54%
Na 206.200	9.7	0.0007 mg/L	0.00007	0.0007 mg/L	0.00007	10.07%
Na 213.617	9.0	0.0067 mg/L	0.00167	0.0067 mg/L	0.00167	24.88%
Na 251.611	-126.6	-0.0031 mg/L	0.00030	-0.0031 mg/L	0.00030	9.67%
Na 670.784	-230.8	-0.0033 mg/L	0.00433	-0.0033 mg/L	0.00433	129.44%
Na 610.362	-138.6	-0.0197 mg/L	0.00762	-0.0197 mg/L	0.00762	38.65%
Na 181.975	-7.8	-0.0318 mg/L	0.01376	-0.0318 mg/L	0.01376	43.33%

ALAB: 00141

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Analysis Begun

Start Time: 10/17/2012 12:15:41 PM

Plasma On Time: 10/17/2012 11:56:53 AM

Logged In Analyst: kedy

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1091901Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif

Batch ID: 10-17-12

Results Data Set: 10-17-12

Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank 1

Date Collected: 10/17/2012 12:15:41 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	669.3	11.67	1.74%	[0.00]	mg/L
Al 308.215	2798.0	83.98	3.00%	[0.00]	mg/L
As 188.979	24.7	4.39	17.73%	[0.00]	mg/L
B 249.677	5923.2	170.51	2.88%	[0.00]	mg/L
Ba 233.527	-67.8	8.88	13.09%	[0.00]	mg/L
Be 313.107	-3419.2	32.32	0.95%	[0.00]	mg/L
Bi 223.061	-66.2	3.73	5.63%	[0.00]	mg/L
Bi 190.171	15.5	5.44	35.18%	[0.00]	mg/L
Ca 315.887	17.3	9.25	53.59%	[0.00]	mg/L
Ca 317.933	120.2	0.82	0.69%	[0.00]	mg/L
Cd 214.440	43.8	0.49	1.13%	[0.00]	mg/L
Co 228.616	-38.8	8.25	21.26%	[0.00]	mg/L
Cr 267.716	-70.7	2.66	3.76%	[0.00]	mg/L
Cu 324.752	2135.6	60.12	2.82%	[0.00]	mg/L
Fe 238.204	121.8	7.23	5.94%	[0.00]	mg/L
Fe 273.955	-448.1	6.26	1.40%	[0.00]	mg/L
K 766.490	-775.4	222.66	28.72%	[0.00]	mg/L
Mg 279.077	-41.3	0.25	0.61%	[0.00]	mg/L
Mn 257.610	366.4	10.25	2.80%	[0.00]	mg/L
Mo 202.031	0.5	0.06	12.66%	[0.00]	mg/L
Na 589.592	221.4	163.51	73.85%	[0.00]	mg/L
Na 330.237	34.2	6.46	18.86%	[0.00]	mg/L
Ni 231.604	2.1	1.56	75.75%	[0.00]	mg/L
Pb 220.353	-117.2	19.04	16.25%	[0.00]	mg/L
Sb 206.836	0.5	7.86	>999.9%	[0.00]	mg/L
Se 196.026	86.6	67.82	78.30%	[0.00]	mg/L
Sn 189.927	-8.6	1.71	20.02%	[0.00]	mg/L
Sr 407.771	24.6	32.38	131.54%	[0.00]	mg/L
Sr 421.552	153.5	69.86	45.50%	[0.00]	mg/L
Ti 334.940	-969.0	33.05	3.41%	[0.00]	mg/L
Tl 190.801	16.5	21.69	131.38%	[0.00]	mg/L
V 290.880	3597.1	21.91	0.61%	[0.00]	mg/L
W 207.912	22.6	3.67	16.24%	[0.00]	mg/L
Zn 206.200	9.1	0.96	10.60%	[0.00]	mg/L
P 213.617	-7.1	5.29	74.60%	[0.00]	mg/L
Si 251.611	190.1	14.26	7.50%	[0.00]	mg/L
Li 670.784	-250.2	20.46	8.18%	[0.00]	mg/L
Li 610.362	-3302.0	104.01	3.15%	[0.00]	mg/L
S 181.975	2.1	7.75	371.68%	[0.00]	mg/L

ALAB: 00142

Sequence No.: 2
Sample ID: ICP STD1-0.05PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 10/17/2012 12:18:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD1-0.05PPM(7-6-12)

Analyste	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Al 308.215	1766.3	68.74	3.89%	[0.05]	mg/L
As 188.979	285.3	1.57	0.55%	[0.05]	mg/L
B 249.677	6247.8	32.98	0.53%	[0.05]	mg/L
Ca 233.527	5583.5	49.43	0.89%	[0.05]	mg/L
Fe 313.107	109008.1	59.76	0.05%	[0.05]	mg/L
Co 214.440	2478.6	11.63	0.47%	[0.05]	mg/L
Cr 228.616	1399.2	7.93	0.57%	[0.05]	mg/L
Cu 267.716	2052.2	7.26	0.35%	[0.05]	mg/L
Mn 324.752	15474.2	50.24	0.32%	[0.05]	mg/L
Pb 238.204	2191.7	4.02	0.18%	[0.05]	mg/L
Se 273.955	1020.3	134.05	13.14%	[0.05]	mg/L
Sn 257.610	25052.4	94.52	0.38%	[0.05]	mg/L
So 202.031	231.1	0.17	0.07%	[0.05]	mg/L
Si 231.604	1015.4	5.04	0.50%	[0.05]	mg/L
Nb 220.353	1138.6	22.99	2.02%	[0.05]	mg/L
Nb 206.836	111.0	6.87	6.19%	[0.05]	mg/L
Se 196.026	298.6	35.75	11.97%	[0.05]	mg/L
Li 334.940	18963.2	192.81	1.02%	[0.05]	mg/L
Cl 190.801	326.4	12.75	3.91%	[0.05]	mg/L
Br 290.880	7974.1	52.25	0.66%	[0.05]	mg/L
Sn 206.200	905.9	11.47	1.27%	[0.05]	mg/L

ALAB:00142A

Sequence No.: 3
Sample ID: ICP STD2-1PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 10/17/2012 12:20:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD2-1PPM(7-6-12)

Analyste	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units
Al 308.215	36708.7	203.50	0.55%	[1.00] mg/L
As 188.979	5719.9	39.17	0.68%	[1.00] mg/L
B 249.677	90322.5	56.88	0.06%	[1.00] mg/L
Ca 233.527	111132.9	1366.57	1.23%	[1.00] mg/L
Fe 313.107	2213382.5	101719.91	4.60%	[1.00] mg/L
Co 214.440	48803.5	584.18	1.20%	[1.00] mg/L
Cr 228.616	27214.3	18.97	0.07%	[1.00] mg/L
Cu 267.716	40170.8	163.22	0.41%	[1.00] mg/L
Mn 324.752	305177.7	816.33	0.27%	[1.00] mg/L
Pb 238.204	42341.2	60.96	0.14%	[1.00] mg/L
Se 273.955	17770.3	407.45	2.29%	[1.00] mg/L
Sn 257.610	489613.3	26307.78	5.37%	[1.00] mg/L
Mo 202.031	4474.9	20.01	0.45%	[1.00] mg/L
Ni 231.604	20264.6	175.02	0.86%	[1.00] mg/L
Bi 220.353	21081.0	380.86	1.81%	[1.00] mg/L
Ba 206.836	1095.6	14.61	1.33%	[1.00] mg/L
Be 196.026	8089.2	14.98	0.19%	[1.00] mg/L
Br 407.771	430156.2	2397.81	0.56%	[1.00] mg/L
Rb 421.552	240414.4	558.01	0.23%	[1.00] mg/L
Li 334.940	380278.0	17559.27	4.62%	[1.00] mg/L
Cl 190.801	6278.4	55.53	0.88%	[1.00] mg/L
K 290.880	154015.8	1737.06	1.13%	[1.00] mg/L
N 206.200	15713.3	459.29	2.92%	[1.00] mg/L

ALAB: 00143

Sequence No.: 4

Sample ID: ICP STD3-20PPM(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 10/17/2012 12:22:43 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP STD3-20PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
Al 308.215	685677.1	3005.46	0.44%	[20.00]	mg/L
As 188.979	110735.3	583.23	0.53%	[20.00]	mg/L
B 249.677	1767999.8	80262.25	4.54%	[20.00]	mg/L
Ba 233.527	2059742.8	63619.69	3.09%	[20.00]	mg/L
Be 313.107	Saturated2				
Bi 223.061	21721.0	78.44	0.36%	[10]	mg/L
Bi 190.171	8092.9	42.62	0.53%	[10]	mg/L
Ca 315.887	21747.8	142.97	0.66%	[10.00]	mg/L
Ca 317.933	25491.9	159.36	0.63%	[10.00]	mg/L
Cd 214.440	886303.0	26181.96	2.95%	[20.00]	mg/L
Co 228.616	510573.1	9483.68	1.86%	[20.00]	mg/L
Cr 267.716	771980.1	25246.77	3.27%	[20.00]	mg/L
Cu 324.752	5957156.8	216731.82	3.64%	[20.00]	mg/L
Fe 238.204	788171.7	27817.23	3.53%	[20.00]	mg/L
Fe 273.955	332940.2	5114.72	1.54%	[20.00]	mg/L
G 766.490	28445.2	425.29	1.50%	[10.00]	mg/L
Hg 279.077	2386.1	10.10	0.42%	[10.00]	mg/L
In 257.610	8589517.6	63859.20	0.74%	[20.00]	mg/L
Ir 202.031	89202.8	1147.73	1.29%	[20.00]	mg/L
La 589.592	66984.6	1317.54	1.97%	[10.00]	mg/L
Li 231.604	374739.1	6694.18	1.79%	[20.00]	mg/L
Nb 220.353	393157.9	7721.45	1.96%	[20.00]	mg/L
Se 196.026	156659.9	835.56	0.53%	[20.00]	mg/L
Sn 189.927	30767.2	80.02	0.26%	[10.00]	mg/L
Ti 334.940	7361543.4	80075.20	1.09%	[20.00]	mg/L
Tl 190.801	110548.1	541.54	0.49%	[20.00]	mg/L
V 290.880	3089760.6	85755.09	2.78%	[20.00]	mg/L
Zr 207.912	12384.2	0.91	0.01%	[5]	mg/L
Zn 206.200	294296.0	7905.17	2.69%	[20.00]	mg/L
Zr 670.784	131197.3	1989.07	1.52%	[2.0]	mg/L
Zr 610.362	13810.7	469.47	3.40%	[2.0]	mg/L
Zr 181.975	2434.3	16.47	0.68%	[10.00]	mg/L

ALAB: 00144

Sequence No.: 5

Sample ID: ICP STD4-2PPM(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 10/17/2012 12:25:20 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP STD4-2PPM(7-6-12)

	Mean Corrected	Std.Dev.	RSD	Conc. Units
Analyte	Intensity			
Ag 328.068	259689.3	15891.87	6.12%	[2.00] mg/L

ALAB: 00145

Sequence No.: 6
Sample ID: ICP STD5-100PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 10/17/2012 12:27:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD5-100PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
As 315.887	202527.0	5956.02	2.94%	[100.00]	mg/L
As 317.933	239440.8	4475.55	1.87%	[100.00]	mg/L
As 766.490	263921.1	6122.09	2.32%	[100.00]	mg/L
As 279.077	22363.6	101.80	0.46%	[100.00]	mg/L
As 589.592	593286.9	14853.78	2.50%	[100.00]	mg/L
As 330.237	723.2	1.45	0.20%	[100.00]	mg/L

ALAB: 00146

Sequence No.: 7
 Sample ID: ICP STD6-10PPM(7-6-12)
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 10
 Date Collected: 10/17/2012 12:29:24 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICP STD6-10PPM(7-6-12)

Analyte	Mean Corrected	Std.Dev.	RSD	Conc. Units	Calib
P 213.617	13594.3	404.21	2.97%	[10.00] mg/L	
Si 251.611	392259.8	12732.95	3.25%	[10.00] mg/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	129800	0.00000	1.000000	
Al 308.215	3	Lin Thru 0	0.0	34290	0.00000	0.999994	
As 188.979	3	Lin Thru 0	0.0	5537	0.00000	0.999999	
B 249.677	3	Lin Thru 0	0.0	88410	0.00000	0.999999	
Ba 233.527	3	Lin Thru 0	0.0	103000	0.00000	0.999992	
Be 313.107	2	Lin Thru 0	0.0	2213000	0.00000	1.000000	
Bi 223.061	1	Lin Thru 0	0.0	2172	0.00000	1.000000	
Bi 190.171	1	Lin Thru 0	0.0	809.3	0.00000	1.000000	
Ca 315.887	2	Lin Thru 0	0.0	2027	0.00000	0.999973	
Ca 317.933	2	Lin Thru 0	0.0	2396	0.00000	0.999980	
Cd 214.440	3	Lin Thru 0	0.0	44330	0.00000	0.999987	
Co 228.616	3	Lin Thru 0	0.0	25530	0.00000	0.999995	
Cr 267.716	3	Lin Thru 0	0.0	38600	0.00000	0.999998	
Cu 324.752	3	Lin Thru 0	0.0	297900	0.00000	0.999999	
Fe 238.204	3	Lin Thru 0	0.0	39420	0.00000	0.999993	
Fe 273.955	3	Lin Thru 0	0.0	16650	0.00000	0.999994	
K 766.490	2	Lin Thru 0	0.0	2641	0.00000	0.999970	
Kg 279.077	2	Lin Thru 0	0.0	223.8	0.00000	0.999978	
Mn 257.610	3	Lin Thru 0	0.0	429600	0.00000	0.999976	
Mo 202.031	3	Lin Thru 0	0.0	4460	0.00000	1.000000	
Na 589.592	2	Lin Thru 0	0.0	5940	0.00000	0.999919	
Na 330.237	1	Lin Thru 0	0.0	7.232	0.00000	1.000000	
Ni 231.604	3	Lin Thru 0	0.0	18740	0.00000	0.999992	
Pb 220.353	3	Lin Thru 0	0.0	19660	0.00000	0.999993	
Pb 206.836	2	Lin Thru 0	0.0	1098	0.00000	0.998701	
Se 196.026	3	Lin Thru 0	0.0	7834	0.00000	0.999998	
Sn 189.927	1	Lin Thru 0	0.0	3077	0.00000	1.000000	
Sr 407.771	1	Lin Thru 0	0.0	430200	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	240400	0.00000	1.000000	
Ti 334.940	3	Lin Thru 0	0.0	368100	0.00000	0.999999	
Tl 190.801	3	Lin Thru 0	0.0	5529	0.00000	0.999977	
V 290.880	3	Lin Thru 0	0.0	154500	0.00000	1.000000	
V 207.912	1	Lin Thru 0	0.0	2477	0.00000	1.000000	
Zn 206.200	3	Lin Thru 0	0.0	14720	0.00000	0.999994	
P 213.617	1	Lin Thru 0	0.0	1359	0.00000	1.000000	
Si 251.611	1	Lin Thru 0	0.0	39230	0.00000	1.000000	
Si 670.784	1	Lin Thru 0	0.0	65600	0.00000	1.000000	
Si 610.362	1	Lin Thru 0	0.0	6905	0.00000	1.000000	
Si 181.975	1	Lin Thru 0	0.0	243.4	0.00000	1.000000	

ALAB: 00147

Analytical Sequence

Method: 10-02-12

Seq.	Loc.	ID	Status
1	1	Calib Blank 1	Applied
2	2	ICP STD1-0.05PPM(7-6-12)	Applied
3	3	ICP STD2-1PPM(7-6-12)	Applied
4	4	ICP STD3-20PPM(7-6-12)	Applied
5	5	ICP STD4-2PPM(7-6-12)	Applied
6	9	ICP STD5-100PPM(7-6-12)	Applied
7	10	ICP STD6-10PPM(7-6-12)	Applied

ALAB: 00148

=====
analysis Begun

Start Time: 10/17/2012 12:34:57 PM

Plasma On Time: 10/17/2012 11:56:53 AM

Logged In Analyst: kedy

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif

Batch ID: 10-17-12

Results Data Set: 10-17-12

Results Library: C:\pe\Administrator\Results\Results.mdb
=====

Sequence No.: 8

Autosampler Location: 7

Sample ID: ICP_ICV(7-6-12)

Date Collected: 10/17/2012 12:34:57 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:
=====

Mean Data: ICP_ICV(7-6-12)

Element	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	65463.5	0.5042 mg/L	0.00877	0.5042 mg/L	0.00877	1.74%
QC value within limits for Ag		328.068 Recovery = 100.83%				
Al 308.215	36124.9	1.054 mg/L	0.0159	1.054 mg/L	0.0159	1.50%
QC value within limits for Al		308.215 Recovery = 105.35%				
As 188.979	5423.8	0.9795 mg/L	0.00415	0.9795 mg/L	0.00415	0.42%
QC value within limits for As		188.979 Recovery = 97.95%				
B 249.677	87152.2	0.9858 mg/L	0.02102	0.9858 mg/L	0.02102	2.13%
QC value within limits for B		249.677 Recovery = 98.58%				
Ba 233.527	110275.5	1.071 mg/L	0.0217	1.071 mg/L	0.0217	2.03%
QC value within limits for Ba		233.527 Recovery = 107.06%				
Be 313.107	2181482.7	0.9856 mg/L	0.07949	0.9856 mg/L	0.07949	8.07%
QC value within limits for Be		313.107 Recovery = 98.56%				
Bi 223.061	-57.7	-0.0266 mg/L	0.00087	-0.0266 mg/L	0.00087	3.29%
i 190.171	4.9	0.0060 mg/L	0.00777	0.0060 mg/L	0.00777	129.48%
Ca 315.887	2197.7	1.084 mg/L	0.0043	1.084 mg/L	0.0043	0.39%
Ca 317.933	2593.7	1.083 mg/L	0.0034	1.083 mg/L	0.0034	0.31%
Cd 214.440	44590.8	1.006 mg/L	0.0264	1.006 mg/L	0.0264	2.62%
QC value within limits for Cd		214.440 Recovery = 100.60%				
Co 228.616	26422.3	1.035 mg/L	0.0271	1.035 mg/L	0.0271	2.62%
QC value within limits for Co		228.616 Recovery = 103.48%				
Cr 267.716	40980.8	1.062 mg/L	0.0257	1.062 mg/L	0.0257	2.42%
QC value within limits for Cr		267.716 Recovery = 106.16%				
Cu 324.752	290447.4	0.9751 mg/L	0.08825	0.9751 mg/L	0.08825	9.05%
QC value within limits for Cu		324.752 Recovery = 97.51%				
Fe 238.204	41688.7	1.058 mg/L	0.0251	1.058 mg/L	0.0251	2.38%
QC value within limits for Fe		238.204 Recovery = 105.77%				
Fe 273.955	17373.4	1.043 mg/L	0.0143	1.043 mg/L	0.0143	1.37%
QC value within limits for Fe		273.955 Recovery = 104.35%				
G 766.490	27439.6	10.39 mg/L	0.975	10.39 mg/L	0.975	9.39%
Hg 279.077	243.4	1.088 mg/L	0.0090	1.088 mg/L	0.0090	0.83%
In 257.610	436865.1	1.017 mg/L	0.0783	1.017 mg/L	0.0783	7.70%
QC value within limits for Mn		257.610 Recovery = 101.68%				
Mo 202.031	4451.4	0.9980 mg/L	0.00137	0.9980 mg/L	0.00137	0.14%
QC value within limits for Mo		202.031 Recovery = 99.80%				
Ni 589.592	6325.6	1.065 mg/L	0.0990	1.065 mg/L	0.0990	9.30%
Ni 330.237	-22.1	-3.057 mg/L	0.5386	-3.057 mg/L	0.5386	17.62%
Pb 231.604	19600.6	1.046 mg/L	0.0226	1.046 mg/L	0.0226	2.16%
QC value within limits for Ni		231.604 Recovery = 104.59%				
Pb 220.353	20541.8	1.045 mg/L	0.0009	1.045 mg/L	0.0009	0.09%
QC value within limits for Pb		220.353 Recovery = 104.48%				
Sb 206.836	1044.4	0.9508 mg/L	0.00087	0.9508 mg/L	0.00087	0.09%
QC value within limits for Sb		206.836 Recovery = 95.08%				
Se 196.026	7738.5	0.9879 mg/L	0.00216	0.9879 mg/L	0.00216	0.22%
QC value within limits for Se		196.026 Recovery = 98.79%				
Sr 189.927	-10.2	-0.0033 mg/L	0.00000	-0.0033 mg/L	0.00000	0.04%
Sr 407.771	397059.2	0.9231 mg/L	0.07827	0.9231 mg/L	0.07827	8.48%
QC value within limits for Sr		407.771 Recovery = 92.31%				
Sr 421.552	222613.0	0.9260 mg/L	0.07660	0.9260 mg/L	0.07660	8.27%
QC value within limits for Sr		421.552 Recovery = 92.60%				
Ti 334.940	373826.9	1.016 mg/L	0.0797	1.016 mg/L	0.0797	7.85%
QC value within limits for Ti		334.940 Recovery = 101.55%				
		1.041 mg/L	0.0050	1.041 mg/L	0.0050	0.48%

i 207.912	32.6	0.0132 mg/L	0.00007	0.0132 mg/L	0.00007	0.50%
i 371.029	1722.3				79.86	4.64%
in 206.200	15178.0	1.031 mg/L	0.0227	1.031 mg/L	0.0227	2.20%
QC value within limits for Zn 206.200 Recovery = 103.13%						
i 213.617	-1917.2	-1.410 mg/L	0.0652	-1.410 mg/L	0.0652	4.62%
i 251.611	39526.6	1.008 mg/L	0.0152	1.008 mg/L	0.0152	1.50%
QC value within limits for Si 251.611 Recovery = 100.77%						
i 670.784	61865.3	0.9431 mg/L	0.06770	0.9431 mg/L	0.06770	7.18%
i 610.362	6083.7	0.8810 mg/L	0.14183	0.8810 mg/L	0.14183	16.10%
i 181.975	4.8	0.0198 mg/L	0.01106	0.0198 mg/L	0.01106	55.84%

all analyte(s) passed QC.

ALAB: 00150

Sequence No.: 9

Sample ID: ICP_ICB(Daily)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 10/17/2012 12:37:31 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP_ICB(Daily)

analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	2414.4	0.0186 mg/L	0.00021	0.0186 mg/L	0.00021	1.15%
QC value greater than the upper limit for Ag 328.068 Recovery = Not calculated						
Al 308.215	277.8	0.0081 mg/L	0.00156	0.0081 mg/L	0.00156	19.30%
QC value within limits for Al 308.215 Recovery = Not calculated						
As 188.979	13.6	0.0025 mg/L	0.00178	0.0025 mg/L	0.00178	72.23%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677	1436.9	0.0163 mg/L	0.00077	0.0163 mg/L	0.00077	4.73%
QC value greater than the upper limit for B 249.677 Recovery = Not calculated						
Ba 233.527	36.4	0.0004 mg/L	0.00004	0.0004 mg/L	0.00004	11.96%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107	323.7	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	30.33%
QC value within limits for Be 313.107 Recovery = Not calculated						
Bi 223.061	17.8	0.0082 mg/L	0.00656	0.0082 mg/L	0.00656	80.09%
QC value within limits for Bi 223.061 Recovery = Not calculated						
Bi 190.171	-2.6	-0.0032 mg/L	0.00160	-0.0032 mg/L	0.00160	50.25%
QC value within limits for Bi 190.171 Recovery = Not calculated						
Ca 315.887	14.8	0.0073 mg/L	0.00335	0.0073 mg/L	0.00335	45.90%
QC value within limits for Ca 315.887 Recovery = Not calculated						
Ca 317.933	28.9	0.0121 mg/L	0.00204	0.0121 mg/L	0.00204	16.92%
QC value greater than the upper limit for Ca 317.933 Recovery = Not calculated						
Cd 214.440	25.4	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	2.03%
QC value within limits for Cd 214.440 Recovery = Not calculated						
Co 228.616	2.8	0.0001 mg/L	0.00000	0.0001 mg/L	0.00000	3.08%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716	20.0	0.0005 mg/L	0.00020	0.0005 mg/L	0.00020	38.87%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752	166.5	0.0006 mg/L	0.00003	0.0006 mg/L	0.00003	4.53%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204	68.2	0.0017 mg/L	0.00013	0.0017 mg/L	0.00013	7.69%
QC value within limits for Fe 238.204 Recovery = Not calculated						
Fe 273.955	86.9	0.0052 mg/L	0.00010	0.0052 mg/L	0.00010	1.91%
QC value within limits for Fe 273.955 Recovery = Not calculated						
K 766.490	-110.4	-0.0418 mg/L	0.06583	-0.0418 mg/L	0.06583	157.54%
QC value less than the lower limit for K 766.490 Recovery = Not calculated						
Mg 279.077	2.6	0.0118 mg/L	0.02472	0.0118 mg/L	0.02472	209.78%
QC value greater than the upper limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610	197.8	0.0005 mg/L	0.00002	0.0005 mg/L	0.00002	4.27%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031	11.1	0.0025 mg/L	0.00070	0.0025 mg/L	0.00070	28.06%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	169.8	0.0286 mg/L	0.04612	0.0286 mg/L	0.04612	161.35%
QC value greater than the upper limit for Na 589.592 Recovery = Not calculated						
Na 330.237	-3.7	-0.5136 mg/L	0.19393	-0.5136 mg/L	0.19393	37.76%
QC value less than the lower limit for Na 330.237 Recovery = Not calculated						
Ni 231.604	-1.7	-0.0001 mg/L	0.00029	-0.0001 mg/L	0.00029	319.21%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353	36.5	0.0019 mg/L	0.00074	0.0019 mg/L	0.00074	39.97%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836	10.5	0.0095 mg/L	0.00074	0.0095 mg/L	0.00074	7.72%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026	-15.2	-0.0019 mg/L	0.01213	-0.0019 mg/L	0.01213	626.17%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927	-4.9	-0.0016 mg/L	0.00157	-0.0016 mg/L	0.00157	99.24%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771	151.9	0.0004 mg/L	0.00020	0.0004 mg/L	0.00020	57.48%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Sr 421.552	46.1	0.0002 mg/L	0.00008	0.0002 mg/L	0.00008	42.89%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940	-213.9	-0.0006 mg/L	0.00015	-0.0006 mg/L	0.00015	25.25%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801	6.2	0.0011 mg/L	0.00012	0.0011 mg/L	0.00012	10.31%
QC value within limits for Tl 190.801 Recovery = Not calculated						
Tl 290.880	196.9	0.0013 mg/L	0.00016	0.0013 mg/L	0.00016	12.57%

Zn 206.200	6.1	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	2.03%
QC value within limits for Zn 206.200 Recovery = Not calculated						
P 213.617	11.9	0.0087 mg/L	0.00033	0.0087 mg/L	0.00033	3.77%
Si 251.611	112.3	0.0029 mg/L	0.00019	0.0029 mg/L	0.00019	6.58%
Si 670.784	115.2	0.0018 mg/L	0.00687	0.0018 mg/L	0.00687	391.47%
Si 610.362	-104.1	-0.0151 mg/L	0.01447	-0.0151 mg/L	0.01447	95.97%
S 181.975	0.7	0.0028 mg/L	0.01498	0.0028 mg/L	0.01498	537.55%

QC Failed. Continue with analysis.

ALAB: 00152

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 nalysis Begun

start Time: 10/17/2012 12:58:54 PM

Plasma On Time: 10/17/2012 11:56:53 AM

logged In Analyst: kedy

Technique: ICP Continuous

spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif

atch ID: 10-17-12

esults Data Set: 10-17-12

esults Library: C:\pe\Administrator\Results\Results.mdb

sequence No.: 35

Autosampler Location: 7

sample ID: ICP_CCV(7-6-12)

Date Collected: 10/17/2012 12:58:54 PM

analyst:

Data Type: Original

initial Sample Wt:

Initial Sample Vol:

ilution:

Sample Prep Vol:

Mean Data: ICP_CCV(7-6-12)

	Mean Corrected	Calib	Std.Dev.	Sample	Std.Dev.	RSD
nalyte	Intensity	Conc. Units		Conc. Units		
g 328.068	65106.0	0.5014 mg/L	0.01294	0.5014 mg/L	0.01294	2.58%
QC value within limits for Ag	328.068	Recovery = 100.28%				
l 308.215	36056.4	1.052 mg/L	0.0419	1.052 mg/L	0.0419	3.98%
QC value within limits for Al	308.215	Recovery = 105.15%				
s 188.979	5482.9	0.9902 mg/L	0.00574	0.9902 mg/L	0.00574	0.58%
QC value within limits for As	188.979	Recovery = 99.02%				
249.677	82509.1	0.9333 mg/L	0.03590	0.9333 mg/L	0.03590	3.85%
QC value within limits for B	249.677	Recovery = 93.33%				
a 233.527	109831.9	1.066 mg/L	0.0330	1.066 mg/L	0.0330	3.09%
QC value within limits for Ba	233.527	Recovery = 106.63%				
e 313.107	2270287.1	1.026 mg/L	0.0217	1.026 mg/L	0.0217	2.12%
QC value within limits for Be	313.107	Recovery = 102.57%				
i 223.061	-57.3	-0.0264 mg/L	0.00241	-0.0264 mg/L	0.00241	9.12%
i 190.171	5.7	0.0071 mg/L	0.00156	0.0071 mg/L	0.00156	22.07%
a 315.887	2307.1	1.138 mg/L	0.0001	1.138 mg/L	0.0001	0.01%
a 317.933	2732.7	1.141 mg/L	0.0035	1.141 mg/L	0.0035	0.30%
d 214.440	44123.9	0.9954 mg/L	0.03829	0.9954 mg/L	0.03829	3.85%
QC value within limits for Cd	214.440	Recovery = 99.54%				
o 228.616	26352.0	1.032 mg/L	0.0360	1.032 mg/L	0.0360	3.49%
QC value within limits for Co	228.616	Recovery = 103.21%				
r 267.716	40541.5	1.050 mg/L	0.0291	1.050 mg/L	0.0291	2.77%
QC value within limits for Cr	267.716	Recovery = 105.02%				
u 324.752	299201.3	1.004 mg/L	0.0344	1.004 mg/L	0.0344	3.43%
QC value within limits for Cu	324.752	Recovery = 100.44%				
e 238.204	41675.2	1.057 mg/L	0.0443	1.057 mg/L	0.0443	4.19%
QC value within limits for Fe	238.204	Recovery = 105.73%				
e 273.955	17237.6	1.035 mg/L	0.0278	1.035 mg/L	0.0278	2.68%
QC value within limits for Fe	273.955	Recovery = 103.53%				
: 766.490	28617.2	10.83 mg/L	0.153	10.83 mg/L	0.153	1.41%
lg 279.077	251.8	1.125 mg/L	0.0049	1.125 mg/L	0.0049	0.44%
ln 257.610	453360.6	1.055 mg/L	0.0280	1.055 mg/L	0.0280	2.65%
QC value within limits for Mn	257.610	Recovery = 105.52%				
lo 202.031	4560.0	1.022 mg/L	0.0339	1.022 mg/L	0.0339	3.31%
QC value within limits for Mo	202.031	Recovery = 102.24%				
la 589.592	7114.5	1.198 mg/L	0.0333	1.198 mg/L	0.0333	2.78%
la 330.237	-23.9	-3.308 mg/L	0.4379	-3.308 mg/L	0.4379	13.24%
li 231.604	19546.6	1.043 mg/L	0.0424	1.043 mg/L	0.0424	4.06%
QC value within limits for Ni	231.604	Recovery = 104.30%				
b 220.353	20174.4	1.026 mg/L	0.0520	1.026 mg/L	0.0520	5.07%
QC value within limits for Pb	220.353	Recovery = 102.61%				
ib 206.836	1045.8	0.9521 mg/L	0.00361	0.9521 mg/L	0.00361	0.38%
QC value within limits for Sb	206.836	Recovery = 95.21%				
ie 196.026	7906.0	1.009 mg/L	0.0053	1.009 mg/L	0.0053	0.52%
QC value within limits for Se	196.026	Recovery = 100.92%				
in 189.927	-9.9	-0.0032 mg/L	0.00141	-0.0032 mg/L	0.00141	43.69%
ir 407.771	413225.5	0.9606 mg/L	0.01199	0.9606 mg/L	0.01199	1.25%
QC value within limits for Sr	407.771	Recovery = 96.06%				
ir 421.552	233075.7	0.9695 mg/L	0.00478	0.9695 mg/L	0.00478	0.49%
QC value within limits for Sr	421.552	Recovery = 96.95%				
i 334.940	390240.5	1.060 mg/L	0.0248	1.060 mg/L	0.0248	2.33%
QC value within limits for Ti	334.940	Recovery = 106.01%				
.. 100.001	5779.0	1.045 mg/L	0.0081	1.045 mg/L	0.0081	0.78%

ALAB 000178

1 207.912	19.5	0.0079 mg/L	0.00211	0.0079 mg/L	0.00211	26.85%
1 371.029	1592.7				17.94	1.13%
1n 206.200	14999.0	1.019 mg/L	0.0460	1.019 mg/L	0.0460	4.51%
QC value within limits for Zn 206.200 Recovery = 101.91%						
1 213.617	-1875.6	-1.380 mg/L	0.0857	-1.380 mg/L	0.0857	6.21%
1i 251.611	39389.5	1.004 mg/L	0.0321	1.004 mg/L	0.0321	3.20%
QC value within limits for Si 251.611 Recovery = 100.42%						
1i 670.784	66363.6	1.012 mg/L	0.0302	1.012 mg/L	0.0302	2.98%
1i 610.362	7284.4	1.055 mg/L	0.0083	1.055 mg/L	0.0083	0.79%
1 181.975	4.5	0.0184 mg/L	0.00602	0.0184 mg/L	0.00602	32.64%

11 analyte(s) passed QC.

ALAB:00153 A

User canceled analysis.

=====
analysis Begun

Start Time: 10/17/2012 1:01:42 PM

Plasma On Time: 10/17/2012 11:56:53 AM

Logged In Analyst: kedy

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif

Batch ID: 10-17-12

Results Data Set: 10-17-12

Results Library: C:\pe\Administrator\Results\Results.mdb
=====

Sequence No.: 37

Autosampler Location: 8

Sample ID: ICP_CCB(Daily)

Date Collected: 10/17/2012 1:01:42 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:
=====

Mean Data: ICP_CCB(Daily)

	Mean Corrected	Calib		Sample		
analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units
Ag 328.068	2507.4	0.0193	mg/L	0.00066	0.0193	mg/L
Al 308.215	216.3	0.0063	mg/L	0.00037	0.0063	mg/L
As 188.979	22.5	0.0041	mg/L	0.00002	0.0041	mg/L
B 249.677	-1994.0	-0.0226	mg/L	0.00000	-0.0226	mg/L
Ca 233.527	72.9	0.0007	mg/L	0.00009	0.0007	mg/L
Fe 313.107	1099.7	0.0005	mg/L	0.00007	0.0005	mg/L
Bi 223.061	-2.9	-0.0013	mg/L	0.00222	-0.0013	mg/L
Bi 190.171	-2.1	-0.0026	mg/L	0.00763	-0.0026	mg/L
Ca 315.887	28.7	0.0142	mg/L	0.00317	0.0142	mg/L
Ca 317.933	42.5	0.0177	mg/L	0.00401	0.0177	mg/L
Co 214.440	26.6	0.0006	mg/L	0.00001	0.0006	mg/L
Co 228.616	19.9	0.0008	mg/L	0.00010	0.0008	mg/L
Cr 267.716	28.5	0.0007	mg/L	0.00003	0.0007	mg/L
Cu 324.752	235.1	0.0008	mg/L	0.00022	0.0008	mg/L
Fe 238.204	90.3	0.0023	mg/L	0.00018	0.0023	mg/L
Fe 273.955	92.0	0.0055	mg/L	0.00016	0.0055	mg/L
C 766.490	-154.4	-0.0585	mg/L	0.06209	-0.0585	mg/L
Ag 279.077	5.7	0.0253	mg/L	0.00075	0.0253	mg/L
Sn 257.610	336.1	0.0008	mg/L	0.00003	0.0008	mg/L
Co 202.031	11.8	0.0026	mg/L	0.00073	0.0026	mg/L
QC value less than the lower limit for Mo 202.031				Recovery = 0.26%		
Na 589.592	249.5	0.0420	mg/L	0.04270	0.0420	mg/L
Na 330.237	-6.6	-0.9144	mg/L	1.74551	-0.9144	mg/L
Vi 231.604	2.4	0.0001	mg/L	0.00004	0.0001	mg/L
Pb 220.353	57.4	0.0029	mg/L	0.00060	0.0029	mg/L
Sb 206.836	2.6	0.0024	mg/L	0.00433	0.0024	mg/L
QC value less than the lower limit for Sb 206.836				Recovery = 0.24%		
Se 196.026	-29.0	-0.0037	mg/L	0.00632	-0.0037	mg/L
Sn 189.927	2.0	0.0007	mg/L	0.00052	0.0007	mg/L
Sr 407.771	359.0	0.0008	mg/L	0.00021	0.0008	mg/L
Sr 421.552	154.1	0.0006	mg/L	0.00057	0.0006	mg/L
Pi 334.940	85.9	0.0002	mg/L	0.00000	0.0002	mg/L
Fl 190.801	17.3	0.0031	mg/L	0.00253	0.0031	mg/L
V 290.880	51.5	0.0003	mg/L	0.00035	0.0003	mg/L
N 207.912	-4.2	-0.0017	mg/L	0.00051	-0.0017	mg/L
Y 371.029	1709.5				81.60	4.77%
Zn 206.200	10.6	0.0007	mg/L	0.00004	0.0007	mg/L
P 213.617	3.6	0.0027	mg/L	0.00032	0.0027	mg/L
Si 251.611	169.1	0.0043	mg/L	0.00084	0.0043	mg/L
Li 670.784	440.2	0.0067	mg/L	0.00509	0.0067	mg/L
Li 610.362	-347.8	-0.0504	mg/L	0.01684	-0.0504	mg/L
S 181.975	-3.6	-0.0149	mg/L	0.02558	-0.0149	mg/L

QC Failed. Continue with analysis.

ALAB: 00154

Sequence No.: 48
 Sample ID: ICP_CCV(7-6-12)
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 10/17/2012 1:30:19 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Sample Data: ICP_CCV(7-6-12)

Element	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag	328.068	0.5026 mg/L	0.00165	0.00165	0.5026 mg/L	0.00165	0.33%
QC value within limits for Ag	328.068	Recovery = 100.52%					
Al	308.215	1.040 mg/L	0.0015	0.0015	1.040 mg/L	0.0015	0.15%
QC value within limits for Al	308.215	Recovery = 104.01%					
As	188.979	0.9794 mg/L	0.00948	0.00948	0.9794 mg/L	0.00948	0.97%
QC value within limits for As	188.979	Recovery = 97.94%					
Ba	249.677	0.9005 mg/L	0.00687	0.00687	0.9005 mg/L	0.00687	0.76%
QC value within limits for Ba	249.677	Recovery = 90.05%					
Be	233.527	1.064 mg/L	0.0064	0.0064	1.064 mg/L	0.0064	0.60%
QC value within limits for Be	233.527	Recovery = 106.40%					
Ba	313.107	0.9834 mg/L	0.03389	0.03389	0.9834 mg/L	0.03389	3.45%
QC value within limits for Ba	313.107	Recovery = 98.34%					
Bi	223.061	-0.0207 mg/L	0.00497	0.00497	-0.0207 mg/L	0.00497	23.99%
QC value within limits for Bi	223.061	Recovery = 100.00%					
Br	190.171	0.0072 mg/L	0.00327	0.00327	0.0072 mg/L	0.00327	45.51%
QC value within limits for Br	190.171	Recovery = 100.00%					
Ca	315.887	1.185 mg/L	0.0229	0.0229	1.185 mg/L	0.0229	1.93%
QC value within limits for Ca	315.887	Recovery = 100.00%					
Ca	317.933	1.189 mg/L	0.0160	0.0160	1.189 mg/L	0.0160	1.34%
QC value within limits for Ca	317.933	Recovery = 100.00%					
Cd	214.440	0.9925 mg/L	0.01041	0.01041	0.9925 mg/L	0.01041	1.05%
QC value within limits for Cd	214.440	Recovery = 99.25%					
Co	228.616	1.015 mg/L	0.0083	0.0083	1.015 mg/L	0.0083	0.82%
QC value within limits for Co	228.616	Recovery = 101.49%					
Cr	267.716	1.044 mg/L	0.0049	0.0049	1.044 mg/L	0.0049	0.47%
QC value within limits for Cr	267.716	Recovery = 104.39%					
Cu	324.752	0.9940 mg/L	0.00376	0.00376	0.9940 mg/L	0.00376	0.38%
QC value within limits for Cu	324.752	Recovery = 99.40%					
Fe	238.204	1.053 mg/L	0.0038	0.0038	1.053 mg/L	0.0038	0.36%
QC value within limits for Fe	238.204	Recovery = 105.33%					
Fe	273.955	1.024 mg/L	0.0052	0.0052	1.024 mg/L	0.0052	0.51%
QC value within limits for Fe	273.955	Recovery = 102.42%					
Ga	766.490	11.23 mg/L	0.203	0.203	11.23 mg/L	0.203	1.81%
QC value within limits for Ga	766.490	Recovery = 100.00%					
Ge	279.077	1.166 mg/L	0.0172	0.0172	1.166 mg/L	0.0172	1.47%
QC value within limits for Ge	279.077	Recovery = 100.00%					
Mn	257.610	1.002 mg/L	0.0356	0.0356	1.002 mg/L	0.0356	3.55%
QC value within limits for Mn	257.610	Recovery = 100.24%					
Mo	202.031	1.003 mg/L	0.0007	0.0007	1.003 mg/L	0.0007	0.07%
QC value within limits for Mo	202.031	Recovery = 100.31%					
Ni	589.592	1.182 mg/L	0.0575	0.0575	1.182 mg/L	0.0575	4.86%
QC value within limits for Ni	589.592	Recovery = 103.31%					
Pb	330.237	-1.885 mg/L	1.7518	1.7518	-1.885 mg/L	1.7518	92.95%
QC value within limits for Pb	330.237	Recovery = 103.99%					
Pb	231.604	1.033 mg/L	0.0022	0.0022	1.033 mg/L	0.0022	0.21%
QC value within limits for Pb	231.604	Recovery = 103.31%					
Pb	220.353	1.040 mg/L	0.0383	0.0383	1.040 mg/L	0.0383	3.69%
QC value within limits for Pb	220.353	Recovery = 103.99%					
Pb	206.836	0.9411 mg/L	0.00776	0.00776	0.9411 mg/L	0.00776	0.82%
QC value within limits for Pb	206.836	Recovery = 94.11%					
Sb	196.026	1.011 mg/L	0.0142	0.0142	1.011 mg/L	0.0142	1.41%
QC value within limits for Sb	196.026	Recovery = 101.07%					
Se	189.927	-0.0031 mg/L	0.00020	0.00020	-0.0031 mg/L	0.00020	6.45%
QC value within limits for Se	189.927	Recovery = 101.07%					
Sr	407.771	0.9927 mg/L	0.01420	0.01420	0.9927 mg/L	0.01420	1.43%
QC value within limits for Sr	407.771	Recovery = 99.27%					
Sr	421.552	1.001 mg/L	0.0011	0.0011	1.001 mg/L	0.0011	0.11%
QC value within limits for Sr	421.552	Recovery = 100.05%					
Ti	334.940	1.011 mg/L	0.0406	0.0406	1.011 mg/L	0.0406	4.02%
QC value within limits for Ti	334.940	Recovery = 101.06%					
Tl	190.801	1.040 mg/L	0.0078	0.0078	1.040 mg/L	0.0078	0.75%
QC value within limits for Tl	190.801	Recovery = 104.01%					
Tl	290.880	1.011 mg/L	0.0076	0.0076	1.011 mg/L	0.0076	0.75%
QC value within limits for Tl	290.880	Recovery = 101.10%					
V	207.912	0.0070 mg/L	0.00069	0.00069	0.0070 mg/L	0.00069	9.86%
QC value within limits for V	207.912	Recovery = 101.10%					
Zn	371.029	0.9986 mg/L	0.00221	0.00221	0.9986 mg/L	0.00221	0.22%
QC value within limits for Zn	371.029	Recovery = 99.86%					
Zn	206.200	-1.360 mg/L	0.1221	0.1221	-1.360 mg/L	0.1221	8.98%
QC value within limits for Zn	206.200	Recovery = 99.86%					
Zn	213.617	0.9946 mg/L	0.00687	0.00687	0.9946 mg/L	0.00687	0.69%
QC value within limits for Zn	213.617	Recovery = 99.46%					
Si	251.611	1.034 mg/L	0.0002	0.0002	1.034 mg/L	0.0002	0.02%
QC value within limits for Si	251.611	Recovery = 99.46%					

ser canceled analysis.

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nalysis Begun

tart Time: 10/17/2012 1:32:15 PM

Plasma On Time: 10/17/2012 11:56:53 AM

ogged In Analyst: kedy

Technique: ICP Continuous

pectrometer Model: Optima 4300 DV, S/N 077N1091901Autosampler Model: AS-93plus

ample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif

atch ID: 10-17-12

esults Data Set: 10-17-12

esults Library: C:\pe\Administrator\Results\Results.mdb

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equence No.: 50

Autosampler Location: 8

ample ID: ICP_CCB(Daily)

Date Collected: 10/17/2012 1:32:15 PM

nalytst:

Data Type: Original

nitial Sample Wt:

Initial Sample Vol:

ilution:

Sample Prep Vol:

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an Data: ICP_CCB(Daily)

	Mean Corrected	Calib		Sample		
nalyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
y 328.068	2655.8	0.0205 mg/L	0.00002	0.0205 mg/L	0.00002	0.11%
l 308.215	50.5	0.0015 mg/L	0.00387	0.0015 mg/L	0.00387	262.82%
s 188.979	10.6	0.0019 mg/L	0.00103	0.0019 mg/L	0.00103	53.79%
249.677	-3474.0	-0.0393 mg/L	0.00046	-0.0393 mg/L	0.00046	1.17%
a 233.527	115.2	0.0011 mg/L	0.00006	0.0011 mg/L	0.00006	5.04%
a 313.107	1687.6	0.0008 mg/L	0.00005	0.0008 mg/L	0.00005	5.99%
i 223.061	5.8	0.0027 mg/L	0.00201	0.0027 mg/L	0.00201	74.89%
i 190.171	-0.7	-0.0009 mg/L	0.00373	-0.0009 mg/L	0.00373	416.10%
a 315.887	30.5	0.0151 mg/L	0.00049	0.0151 mg/L	0.00049	3.25%
a 317.933	35.5	0.0148 mg/L	0.00104	0.0148 mg/L	0.00104	7.04%
d 214.440	39.0	0.0009 mg/L	0.00019	0.0009 mg/L	0.00019	21.46%
o 228.616	33.4	0.0013 mg/L	0.00028	0.0013 mg/L	0.00028	21.50%
r 267.716	42.9	0.0011 mg/L	0.00018	0.0011 mg/L	0.00018	16.23%
a 324.752	277.9	0.0009 mg/L	0.00010	0.0009 mg/L	0.00010	10.88%
a 238.204	86.5	0.0022 mg/L	0.00029	0.0022 mg/L	0.00029	13.04%
a 273.955	101.3	0.0061 mg/L	0.00029	0.0061 mg/L	0.00029	4.80%
766.490	239.9	0.0908 mg/L	0.06441	0.0908 mg/L	0.06441	70.92%
y 279.077	1.8	0.0080 mg/L	0.00383	0.0080 mg/L	0.00383	48.13%
o 257.610	475.8	0.0011 mg/L	0.00002	0.0011 mg/L	0.00002	1.43%
o 202.031	12.6	0.0028 mg/L	0.00095	0.0028 mg/L	0.00095	33.73%
QC value less than the lower limit for Mo 202.031			Recovery = 0.28%			
a 589.592	313.9	0.0528 mg/L	0.02854	0.0528 mg/L	0.02854	54.02%
a 330.237	1.4	0.1951 mg/L	0.69941	0.1951 mg/L	0.69941	358.47%
i 231.604	6.1	0.0003 mg/L	0.00021	0.0003 mg/L	0.00021	63.73%
o 220.353	62.5	0.0032 mg/L	0.00019	0.0032 mg/L	0.00019	6.01%
o 206.836	8.3	0.0075 mg/L	0.00547	0.0075 mg/L	0.00547	72.42%
QC value less than the lower limit for Sb 206.836			Recovery = 0.75%			
a 196.026	-6.5	-0.0008 mg/L	0.00614	-0.0008 mg/L	0.00614	745.69%
a 189.927	-1.9	-0.0006 mg/L	0.00103	-0.0006 mg/L	0.00103	170.34%
r 407.771	466.8	0.0011 mg/L	0.00043	0.0011 mg/L	0.00043	39.27%
r 421.552	176.0	0.0007 mg/L	0.00012	0.0007 mg/L	0.00012	16.11%
i 334.940	94.3	0.0003 mg/L	0.00036	0.0003 mg/L	0.00036	139.80%
l 190.801	-8.4	-0.0015 mg/L	0.00488	-0.0015 mg/L	0.00488	322.13%
290.880	177.9	0.0012 mg/L	0.00006	0.0012 mg/L	0.00006	5.04%
207.912	-2.8	-0.0011 mg/L	0.00028	-0.0011 mg/L	0.00028	25.13%
371.029	1684.0				43.42	2.58%
a 206.200	16.5	0.0011 mg/L	0.00020	0.0011 mg/L	0.00020	18.06%
213.617	8.9	0.0065 mg/L	0.00337	0.0065 mg/L	0.00337	51.66%
i 251.611	133.0	0.0034 mg/L	0.00019	0.0034 mg/L	0.00019	5.63%
i 670.784	210.4	0.0032 mg/L	0.00113	0.0032 mg/L	0.00113	35.09%
i 610.362	166.6	0.0241 mg/L	0.01882	0.0241 mg/L	0.01882	77.99%
181.975	1.4	0.0057 mg/L	0.00998	0.0057 mg/L	0.00998	175.96%

C Failed. Continue with analysis.

ALAB: 00156

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analysis Begun

Start Time: 10/17/2012 2:34:29 PM

Plasma On Time: 10/17/2012 11:56:53 AM

Logged In Analyst: kedy

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif

Batch ID: 10-17-12

Results Data Set: 10-17-12

Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 61

Autosampler Location: 7

Sample ID: ICP_CCV(7-6-12)

Date Collected: 10/17/2012 2:34:29 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Mean Data: ICP_CCV(7-6-12)

	Mean Corrected	Calib	Std.Dev.	Sample	Std.Dev.	RSD
Conc. Units	Intensity	Conc. Units	Conc. Units	Conc. Units	Conc. Units	Conc. Units
g 328.068	67825.3	0.5224 mg/L	0.00307	0.5224 mg/L	0.00307	0.59%
QC value within limits for Ag 328.068		Recovery = 104.47%				
l 308.215	36774.4	1.072 mg/L	0.0037	1.072 mg/L	0.0037	0.34%
QC value within limits for Al 308.215		Recovery = 107.25%				
s 188.979	5633.0	1.017 mg/L	0.0054	1.017 mg/L	0.0054	0.53%
QC value within limits for As 188.979		Recovery = 101.73%				
249.677	85356.3	0.9655 mg/L	0.00574	0.9655 mg/L	0.00574	0.59%
QC value within limits for B 249.677		Recovery = 96.55%				
a 233.527	115422.9	1.121 mg/L	0.0117	1.121 mg/L	0.0117	1.05%
QC value greater than the upper limit for Ba 233.527		Recovery = 112.05%				
e 313.107	2357517.3	1.065 mg/L	0.0298	1.065 mg/L	0.0298	2.80%
QC value within limits for Be 313.107		Recovery = 106.52%				
i 223.061	-41.4	-0.0191 mg/L	0.00087	-0.0191 mg/L	0.00087	4.58%
i 190.171	5.3	0.0065 mg/L	0.00037	0.0065 mg/L	0.00037	5.69%
a 315.887	2432.6	1.200 mg/L	0.0020	1.200 mg/L	0.0020	0.16%
a 317.933	2893.6	1.208 mg/L	0.0108	1.208 mg/L	0.0108	0.89%
d 214.440	47162.1	1.064 mg/L	0.0151	1.064 mg/L	0.0151	1.42%
QC value within limits for Cd 214.440		Recovery = 106.40%				
o 228.616	27502.3	1.077 mg/L	0.0118	1.077 mg/L	0.0118	1.10%
QC value within limits for Co 228.616		Recovery = 107.71%				
r 267.716	42555.3	1.102 mg/L	0.0064	1.102 mg/L	0.0064	0.58%
QC value greater than the upper limit for Cr 267.716		Recovery = 110.24%				
u 324.752	308088.0	1.034 mg/L	0.0085	1.034 mg/L	0.0085	0.83%
QC value within limits for Cu 324.752		Recovery = 103.43%				
e 238.204	44124.6	1.119 mg/L	0.0246	1.119 mg/L	0.0246	2.20%
QC value greater than the upper limit for Fe 238.204		Recovery = 111.95%				
e 273.955	18005.7	1.081 mg/L	0.0175	1.081 mg/L	0.0175	1.62%
QC value within limits for Fe 273.955		Recovery = 108.14%				
766.490	29124.7	11.03 mg/L	0.245	11.03 mg/L	0.245	2.22%
g 279.077	276.3	1.235 mg/L	0.0007	1.235 mg/L	0.0007	0.06%
in 257.610	462791.2	1.077 mg/L	0.0356	1.077 mg/L	0.0356	3.30%
QC value within limits for Mn 257.610		Recovery = 107.72%				
lo 202.031	4604.7	1.032 mg/L	0.0013	1.032 mg/L	0.0013	0.13%
QC value within limits for Mo 202.031		Recovery = 103.24%				
la 589.592	6964.2	1.172 mg/L	0.0953	1.172 mg/L	0.0953	8.13%
la 330.237	-17.1	-2.363 mg/L	0.6812	-2.363 mg/L	0.6812	28.82%
li 231.604	20594.1	1.099 mg/L	0.0233	1.099 mg/L	0.0233	2.12%
QC value within limits for Ni 231.604		Recovery = 109.89%				
b 220.353	22081.1	1.123 mg/L	0.0220	1.123 mg/L	0.0220	1.96%
QC value greater than the upper limit for Pb 220.353		Recovery = 112.31%				
ib 206.836	1069.1	0.9733 mg/L	0.00216	0.9733 mg/L	0.00216	0.22%
QC value within limits for Sb 206.836		Recovery = 97.33%				
ie 196.026	8157.4	1.041 mg/L	0.0058	1.041 mg/L	0.0058	0.55%
QC value within limits for Se 196.026		Recovery = 104.13%				
in 189.927	-10.2	-0.0033 mg/L	0.00124	-0.0033 mg/L	0.00124	37.39%
ir 407.771	410328.0	0.9539 mg/L	0.01546	0.9539 mg/L	0.01546	1.62%
QC value within limits for Sr 407.771		Recovery = 95.39%				
ir 421.552	231630.6	0.9635 mg/L	0.00868	0.9635 mg/L	0.00868	0.90%
QC value within limits for Sr 421.552		Recovery = 96.35%				
i 334.940	399633.0	1.086 mg/L	0.0335	1.086 mg/L	0.0335	3.09%
QC value within limits for Ti 334.940		Recovery = 108.56%				
7 190.801	5946.6	1.075 mg/L	0.0024	1.075 mg/L	0.0024	0.22%

207.912	19.7	0.0080 mg/L	0.00032	0.0080 mg/L	0.00032	3.96%
371.029	1794.3				14.94	0.83%
n 206.200	15823.2	1.075 mg/L	0.0248	1.075 mg/L	0.0248	2.31%
QC value within limits for Zn 206.200 Recovery = 107.51%						
213.617	-1810.3	-1.332 mg/L	0.0905	-1.332 mg/L	0.0905	6.80%
i 251.611	41215.6	1.051 mg/L	0.0107	1.051 mg/L	0.0107	1.02%
QC value within limits for Si 251.611 Recovery = 105.07%						
i 670.784	64379.1	0.9814 mg/L	0.03268	0.9814 mg/L	0.03268	3.33%
i 610.362	6616.2	0.9581 mg/L	0.05873	0.9581 mg/L	0.05873	6.13%
181.975	5.0	0.0205 mg/L	0.00097	0.0205 mg/L	0.00097	4.72%

C Failed. Continue with analysis.

ALAB: 00158

User canceled analysis.

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Analysis Begun

Start Time: 10/17/2012 2:37:59 PM Plasma On Time: 10/17/2012 11:56:53 AM
 Logged In Analyst: kedy Technique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif
 Batch ID: 10-17-12
 Results Data Set: 10-17-12
 Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 63 Autosampler Location: 8
 Sample ID: ICP_CCB(Daily) Date Collected: 10/17/2012 2:37:59 PM
 Analyst: Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

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Mean Data: ICP_CCB(Daily)

Analyte	Mean Corrected Intensity	Conc.	Units	Calib	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Ag 328.068	2702.3	0.0208	mg/L	0.00048	0.00048	0.0208	mg/L	0.00048	2.29%
Al 308.215	99.7	0.0029	mg/L	0.00169	0.00169	0.0029	mg/L	0.00169	57.99%
As 188.979	21.4	0.0039	mg/L	0.00044	0.00044	0.0039	mg/L	0.00044	11.35%
Ba 249.677	-3391.7	-0.0384	mg/L	0.00004	0.00004	-0.0384	mg/L	0.00004	0.10%
Ca 233.527	69.5	0.0007	mg/L	0.00000	0.00000	0.0007	mg/L	0.00000	0.43%
Fe 313.107	816.3	0.0004	mg/L	0.00007	0.00007	0.0004	mg/L	0.00007	17.67%
Si 223.061	5.6	0.0026	mg/L	0.00061	0.00061	0.0026	mg/L	0.00061	23.67%
Li 190.171	1.0	0.0012	mg/L	0.00447	0.00447	0.0012	mg/L	0.00447	359.21%
Na 315.887	16.9	0.0084	mg/L	0.00455	0.00455	0.0084	mg/L	0.00455	54.50%
Na 317.933	36.9	0.0154	mg/L	0.00199	0.00199	0.0154	mg/L	0.00199	12.90%
Co 214.440	7.7	0.0002	mg/L	0.00002	0.00002	0.0002	mg/L	0.00002	11.10%
Co 228.616	22.0	0.0009	mg/L	0.00040	0.00040	0.0009	mg/L	0.00040	46.87%
Cr 267.716	22.6	0.0006	mg/L	0.00031	0.00031	0.0006	mg/L	0.00031	52.95%
Cu 324.752	151.1	0.0005	mg/L	0.00042	0.00042	0.0005	mg/L	0.00042	83.67%
Fe 238.204	94.7	0.0024	mg/L	0.00012	0.00012	0.0024	mg/L	0.00012	5.01%
Fe 273.955	102.0	0.0061	mg/L	0.00003	0.00003	0.0061	mg/L	0.00003	0.42%
Fe 273.955	94.7	0.0359	mg/L	0.03041	0.03041	0.0359	mg/L	0.03041	84.80%
Hg 279.077	2.1	0.0094	mg/L	0.00988	0.00988	0.0094	mg/L	0.00988	105.60%
In 257.610	280.0	0.0007	mg/L	0.00002	0.00002	0.0007	mg/L	0.00002	2.52%
Mo 202.031	12.7	0.0029	mg/L	0.00096	0.00096	0.0029	mg/L	0.00096	33.79%
QC value less than the lower limit for Mo 202.031 Recovery = 0.29%									
Na 589.592	251.3	0.0423	mg/L	0.00146	0.00146	0.0423	mg/L	0.00146	3.45%
Na 330.237	1.8	0.2554	mg/L	0.28161	0.28161	0.2554	mg/L	0.28161	110.26%
Si 231.604	4.2	0.0002	mg/L	0.00014	0.00014	0.0002	mg/L	0.00014	62.72%
Sb 220.353	49.1	0.0025	mg/L	0.00288	0.00288	0.0025	mg/L	0.00288	115.15%
Sb 206.836	5.4	0.0049	mg/L	0.00408	0.00408	0.0049	mg/L	0.00408	82.72%
QC value less than the lower limit for Sb 206.836 Recovery = 0.49%									
Se 196.026	-93.9	-0.0120	mg/L	0.01042	0.01042	-0.0120	mg/L	0.01042	86.89%
Sn 189.927	-2.4	-0.0008	mg/L	0.00023	0.00023	-0.0008	mg/L	0.00023	29.73%
Sn 407.771	263.0	0.0006	mg/L	0.00014	0.00014	0.0006	mg/L	0.00014	22.55%
Sn 421.552	110.2	0.0005	mg/L	0.00033	0.00033	0.0005	mg/L	0.00033	71.56%
Si 334.940	46.4	0.0001	mg/L	0.00027	0.00027	0.0001	mg/L	0.00027	214.31%
Li 190.801	8.9	0.0016	mg/L	0.00196	0.00196	0.0016	mg/L	0.00196	122.31%
Li 290.880	201.0	0.0013	mg/L	0.00012	0.00012	0.0013	mg/L	0.00012	9.48%
Li 207.912	-2.2	-0.0009	mg/L	0.00008	0.00008	-0.0009	mg/L	0.00008	8.55%
Li 371.029	1643.5							99.15	6.03%
Sn 206.200	6.0	0.0004	mg/L	0.00028	0.00028	0.0004	mg/L	0.00028	68.95%
Sn 213.617	4.9	0.0036	mg/L	0.00199	0.00199	0.0036	mg/L	0.00199	55.86%
Si 251.611	114.7	0.0029	mg/L	0.00027	0.00027	0.0029	mg/L	0.00027	9.17%
Si 670.784	421.7	0.0064	mg/L	0.00063	0.00063	0.0064	mg/L	0.00063	9.78%
Si 610.362	200.8	0.0291	mg/L	0.01499	0.01499	0.0291	mg/L	0.01499	51.52%
Li 181.975	5.5	0.0226	mg/L	0.01293	0.01293	0.0226	mg/L	0.01293	57.19%

C Failed. Continue with analysis.

ALAB: 00155

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Analysis Begun

Start Time: 10/17/2012 3:12:17 PM

Plasma On Time: 10/17/2012 11:56:53 AM

Logged In Analyst: kedy

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif

Batch ID: 10-17-12

Results Data Set: 10-17-12

Results Library: C:\pe\Administrator\Results\Results.mdb
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Sequence No.: 74

Autosampler Location: 7

Sample ID: ICP_CCV(7-6-12)

Date Collected: 10/17/2012 3:12:17 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:
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Mean Data: ICP_CCV(7-6-12)

Element	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	64922.5	0.5000 mg/L		0.00339	0.5000 mg/L	0.00339	0.68%
QC value within limits for Ag 328.068 Recovery = 100.00%							
Al 308.215	35157.7	1.025 mg/L		0.0047	1.025 mg/L	0.0047	0.46%
QC value within limits for Al 308.215 Recovery = 102.53%							
As 188.979	5583.3	1.008 mg/L		0.0019	1.008 mg/L	0.0019	0.19%
QC value within limits for As 188.979 Recovery = 100.83%							
B 249.677	80498.8	0.9106 mg/L		0.01190	0.9106 mg/L	0.01190	1.31%
QC value within limits for B 249.677 Recovery = 91.06%							
Ba 233.527	109735.5	1.065 mg/L		0.0092	1.065 mg/L	0.0092	0.87%
QC value within limits for Ba 233.527 Recovery = 106.53%							
Be 313.107	2221028.4	1.003 mg/L		0.0631	1.003 mg/L	0.0631	6.28%
QC value within limits for Be 313.107 Recovery = 100.35%							
Bi 223.061	-46.6	-0.0215 mg/L		0.00119	-0.0215 mg/L	0.00119	5.53%
Bi 190.171	3.6	0.0044 mg/L		0.00155	0.0044 mg/L	0.00155	35.12%
Bi 315.887	2473.8	1.221 mg/L		0.0050	1.221 mg/L	0.0050	0.41%
Bi 317.933	2938.3	1.226 mg/L		0.0063	1.226 mg/L	0.0063	0.51%
Bi 214.440	44753.3	1.010 mg/L		0.0157	1.010 mg/L	0.0157	1.56%
QC value within limits for Cd 214.440 Recovery = 100.96%							
Co 228.616	26394.4	1.034 mg/L		0.0081	1.034 mg/L	0.0081	0.78%
QC value within limits for Co 228.616 Recovery = 103.37%							
Cr 267.716	40773.2	1.056 mg/L		0.0147	1.056 mg/L	0.0147	1.39%
QC value within limits for Cr 267.716 Recovery = 105.62%							
Cu 324.752	287416.2	0.9649 mg/L		0.06340	0.9649 mg/L	0.06340	6.57%
QC value within limits for Cu 324.752 Recovery = 96.49%							
Fe 238.204	41945.7	1.064 mg/L		0.0093	1.064 mg/L	0.0093	0.88%
QC value within limits for Fe 238.204 Recovery = 106.42%							
Fe 273.955	17350.5	1.042 mg/L		0.0069	1.042 mg/L	0.0069	0.66%
QC value within limits for Fe 273.955 Recovery = 104.21%							
Mn 766.490	28588.4	10.82 mg/L		0.280	10.82 mg/L	0.280	2.59%
Mn 279.077	272.2	1.216 mg/L		0.0282	1.216 mg/L	0.0282	2.32%
Mn 257.610	441814.5	1.028 mg/L		0.0633	1.028 mg/L	0.0633	6.16%
QC value within limits for Mn 257.610 Recovery = 102.84%							
Mo 202.031	4527.0	1.015 mg/L		0.0027	1.015 mg/L	0.0027	0.27%
QC value within limits for Mo 202.031 Recovery = 101.50%							
Ni 589.592	7034.6	1.184 mg/L		0.0378	1.184 mg/L	0.0378	3.19%
Ni 330.237	-17.9	-2.471 mg/L		0.7663	-2.471 mg/L	0.7663	31.01%
Ni 231.604	19533.7	1.042 mg/L		0.0146	1.042 mg/L	0.0146	1.40%
QC value within limits for Ni 231.604 Recovery = 104.23%							
Pb 220.353	20452.4	1.040 mg/L		0.0070	1.040 mg/L	0.0070	0.67%
QC value within limits for Pb 220.353 Recovery = 104.02%							
Pb 206.836	1051.9	0.9577 mg/L		0.00666	0.9577 mg/L	0.00666	0.70%
QC value within limits for Sb 206.836 Recovery = 95.77%							
Sb 196.026	8001.5	1.021 mg/L		0.0077	1.021 mg/L	0.0077	0.76%
QC value within limits for Se 196.026 Recovery = 102.14%							
Sr 189.927	-6.9	-0.0022 mg/L		0.00165	-0.0022 mg/L	0.00165	73.22%
Sr 407.771	418111.6	0.9720 mg/L		0.02597	0.9720 mg/L	0.02597	2.67%
QC value within limits for Sr 407.771 Recovery = 97.20%							
Sr 421.552	235597.8	0.9800 mg/L		0.02684	0.9800 mg/L	0.02684	2.74%
QC value within limits for Sr 421.552 Recovery = 98.00%							
Ti 334.940	378369.7	1.028 mg/L		0.0622	1.028 mg/L	0.0622	6.05%
QC value within limits for Ti 334.940 Recovery = 102.79%							

ALAB: 00160
0.0084 0.79%

✓ 207.912	22.6	0.0091 mg/L	0.00279	0.0091 mg/L	0.00279	30.51%
✓ 371.029	1634.4				105.53	6.46%
✓ 206.200	15079.1	1.025 mg/L	0.0067	1.025 mg/L	0.0067	0.65%
QC value within limits for Zn 206.200 Recovery = 102.46%						
✓ 213.617	-1860.0	-1.368 mg/L	0.0613	-1.368 mg/L	0.0613	4.48%
✓ 251.611	39296.9	1.002 mg/L	0.0051	1.002 mg/L	0.0051	0.51%
QC value within limits for Si 251.611 Recovery = 100.18%						
✓ 670.784	66089.0	1.007 mg/L	0.0332	1.007 mg/L	0.0332	3.30%
✓ 610.362	6671.0	0.9661 mg/L	0.10413	0.9661 mg/L	0.10413	10.78%
✓ 181.975	6.8	0.0278 mg/L	0.03769	0.0278 mg/L	0.03769	135.52%

all analyte(s) passed QC.

ALAB: 00161

User canceled analysis.

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analysis Begun

Start Time: 10/17/2012 3:14:18 PM

Plasma On Time: 10/17/2012 11:56:53 AM

Logged In Analyst: kedy

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif

Batch ID: 10-17-12

Results Data Set: 10-17-12

Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 76

Autosampler Location: 8

Sample ID: ICP_CCB(Daily)

Date Collected: 10/17/2012 3:14:18 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Clean Data: ICP_CCB(Daily)

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Units	Conc.		
g 328.068	2454.7	0.0189	mg/L	0.00008	0.0189	mg/L	0.00008	0.42%
l 308.215	28.4	0.0008	mg/L	0.00032	0.0008	mg/L	0.00032	38.25%
s 188.979	14.3	0.0026	mg/L	0.00257	0.0026	mg/L	0.00257	99.18%
249.677	-3843.8	-0.0435	mg/L	0.00040	-0.0435	mg/L	0.00040	0.92%
a 233.527	141.2	0.0014	mg/L	0.00016	0.0014	mg/L	0.00016	11.97%
e 313.107	2306.9	0.0010	mg/L	0.00013	0.0010	mg/L	0.00013	12.48%
i 223.061	0.5	0.0002	mg/L	0.00092	0.0002	mg/L	0.00092	378.21%
i 190.171	1.9	0.0024	mg/L	0.00503	0.0024	mg/L	0.00503	210.73%
a 315.887	29.6	0.0146	mg/L	0.00111	0.0146	mg/L	0.00111	7.56%
a 317.933	31.3	0.0130	mg/L	0.00401	0.0130	mg/L	0.00401	30.72%
d 214.440	50.4	0.0011	mg/L	0.00027	0.0011	mg/L	0.00027	24.17%
o 228.616	34.2	0.0013	mg/L	0.00007	0.0013	mg/L	0.00007	5.54%
r 267.716	56.6	0.0015	mg/L	0.00015	0.0015	mg/L	0.00015	10.46%
u 324.752	346.3	0.0012	mg/L	0.00050	0.0012	mg/L	0.00050	43.01%
e 238.204	89.5	0.0023	mg/L	0.00002	0.0023	mg/L	0.00002	1.02%
e 273.955	101.3	0.0061	mg/L	0.00026	0.0061	mg/L	0.00026	4.21%
766.490	63.5	0.0241	mg/L	0.02343	0.0241	mg/L	0.02343	97.40%
g 279.077	10.1	0.0450	mg/L	0.00247	0.0450	mg/L	0.00247	5.49%
n 257.610	543.3	0.0013	mg/L	0.00012	0.0013	mg/L	0.00012	9.79%
o 202.031	17.1	0.0038	mg/L	0.00027	0.0038	mg/L	0.00027	6.96%
QC value less than the lower limit for Mo 202.031				Recovery = 0.38%				
a 589.592	393.9	0.0663	mg/L	0.00057	0.0663	mg/L	0.00057	0.86%
a 330.237	-2.8	-0.3832	mg/L	0.95136	-0.3832	mg/L	0.95136	248.26%
i 231.604	15.4	0.0008	mg/L	0.00049	0.0008	mg/L	0.00049	59.30%
b 220.353	67.9	0.0035	mg/L	0.00159	0.0035	mg/L	0.00159	45.95%
b 206.836	4.7	0.0043	mg/L	0.00107	0.0043	mg/L	0.00107	24.97%
QC value less than the lower limit for Sb 206.836				Recovery = 0.43%				
e 196.026	23.1	0.0030	mg/L	0.00340	0.0030	mg/L	0.00340	115.36%
n 189.927	-0.4	-0.0001	mg/L	0.00176	-0.0001	mg/L	0.00176	>999.9%
r 407.771	837.5	0.0019	mg/L	0.00008	0.0019	mg/L	0.00008	3.99%
r 421.552	395.8	0.0016	mg/L	0.00036	0.0016	mg/L	0.00036	21.82%
i 334.940	418.1	0.0011	mg/L	0.00011	0.0011	mg/L	0.00011	10.02%
l 190.801	15.2	0.0027	mg/L	0.00175	0.0027	mg/L	0.00175	63.92%
290.880	311.7	0.0020	mg/L	0.00021	0.0020	mg/L	0.00021	10.29%
207.912	-2.4	-0.0010	mg/L	0.00081	-0.0010	mg/L	0.00081	83.72%
371.029	1600.6						121.85	7.61%
n 206.200	17.9	0.0012	mg/L	0.00026	0.0012	mg/L	0.00026	21.22%
213.617	-0.8	-0.0006	mg/L	0.00042	-0.0006	mg/L	0.00042	70.67%
i 251.611	363.3	0.0093	mg/L	0.00025	0.0093	mg/L	0.00025	2.67%
i 670.784	287.2	0.0044	mg/L	0.00504	0.0044	mg/L	0.00504	115.11%
i 610.362	10.8	0.0016	mg/L	0.01382	0.0016	mg/L	0.01382	881.00%
181.975	-2.3	-0.0093	mg/L	0.00783	-0.0093	mg/L	0.00783	84.47%

C Failed. Continue with analysis.

ALAB: 00162

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Analysis Begun

Start Time: 10/17/2012 3:46:40 PM Plasma On Time: 10/17/2012 11:56:53 AM
 Logged In Analyst: kedy Technique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif
 Batch ID: 10-17-12
 Results Data Set: 10-17-12
 Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 87 Autosampler Location: 7
 Sample ID: ICP_CCV(7-6-12) Date Collected: 10/17/2012 3:46:40 PM
 Analyst: Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

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Raw Data: ICP_CCV(7-6-12)

Element	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag	63944.0	0.4925 mg/L	0.00440	0.4925 mg/L	0.00440	0.89%
QC value within limits for Ag	328.068	328.068 Recovery = 98.49%				
Al	34703.1	1.012 mg/L	0.0243	1.012 mg/L	0.0243	2.40%
QC value within limits for Al	308.215	308.215 Recovery = 101.20%				
As	5318.6	0.9605 mg/L	0.01825	0.9605 mg/L	0.01825	1.90%
QC value within limits for As	188.979	188.979 Recovery = 96.05%				
B	78840.0	0.8918 mg/L	0.01138	0.8918 mg/L	0.01138	1.28%
QC value less than the lower limit for B	249.677	249.677 Recovery = 89.18%				
Ba	107629.6	1.045 mg/L	0.0068	1.045 mg/L	0.0068	0.65%
QC value within limits for Ba	233.527	233.527 Recovery = 104.49%				
Be	2186146.0	0.9877 mg/L	0.01789	0.9877 mg/L	0.01789	1.81%
QC value within limits for Be	313.107	313.107 Recovery = 98.77%				
Bi	-44.1	-0.0203 mg/L	0.00363	-0.0203 mg/L	0.00363	17.89%
Br	1.7	0.0022 mg/L	0.00304	0.0022 mg/L	0.00304	141.10%
Ca	2431.2	1.075 mg/L	0.0002	1.075 mg/L	0.0002	0.02%
Cd	2894.5	1.078 mg/L	0.0058	1.078 mg/L	0.0058	0.53%
Ce	43125.8	0.9729 mg/L	0.00176	0.9729 mg/L	0.00176	0.18%
QC value within limits for Cd	214.440	214.440 Recovery = 97.29%				
Co	25947.5	1.016 mg/L	0.0092	1.016 mg/L	0.0092	0.91%
QC value within limits for Co	228.616	228.616 Recovery = 101.62%				
Cr	39969.6	1.035 mg/L	0.0051	1.035 mg/L	0.0051	0.49%
QC value within limits for Cr	267.716	267.716 Recovery = 103.54%				
Cu	287461.6	0.9650 mg/L	0.02541	0.9650 mg/L	0.02541	2.63%
QC value within limits for Cu	324.752	324.752 Recovery = 96.50%				
Fe	40624.0	1.031 mg/L	0.0100	1.031 mg/L	0.0100	0.97%
QC value within limits for Fe	238.204	238.204 Recovery = 103.06%				
Ga	17064.2	1.025 mg/L	0.0023	1.025 mg/L	0.0023	0.23%
QC value within limits for Ga	273.955	273.955 Recovery = 102.49%				
Hg	28082.1	9.582 mg/L	0.1460	9.582 mg/L	0.1460	1.52%
In	265.1	1.101 mg/L	0.0051	1.101 mg/L	0.0051	0.46%
Ir	427387.3	0.9948 mg/L	0.01581	0.9948 mg/L	0.01581	1.59%
QC value within limits for Ir	257.610	257.610 Recovery = 99.48%				
Mn	4355.4	0.9765 mg/L	0.01119	0.9765 mg/L	0.01119	1.15%
QC value within limits for Mn	202.031	202.031 Recovery = 97.65%				
Mo	7394.4	1.120 mg/L	0.0481	1.120 mg/L	0.0481	4.29%
QC value within limits for Mo	589.592	589.592 Recovery = 100.01%				
Nb	-19.3	-2.503 mg/L	0.3345	-2.503 mg/L	0.3345	13.36%
QC value within limits for Nb	330.237	330.237 Recovery = 91.74%				
Pb	19220.7	1.026 mg/L	0.0030	1.026 mg/L	0.0030	0.29%
QC value within limits for Pb	231.604	231.604 Recovery = 102.56%				
Ni	19663.5	1.000 mg/L	0.0032	1.000 mg/L	0.0032	0.32%
QC value within limits for Ni	220.353	220.353 Recovery = 100.01%				
Sb	1007.6	0.9174 mg/L	0.00673	0.9174 mg/L	0.00673	0.73%
QC value within limits for Sb	206.836	206.836 Recovery = 91.74%				
Se	7703.5	0.9834 mg/L	0.02644	0.9834 mg/L	0.02644	2.69%
QC value within limits for Se	196.026	196.026 Recovery = 98.34%				
Si	-10.3	-0.0033 mg/L	0.00134	-0.0033 mg/L	0.00134	40.09%
QC value within limits for Si	189.927	189.927 Recovery = 94.89%				
Sr	408181.4	0.9489 mg/L	0.01401	0.9489 mg/L	0.01401	1.48%
QC value within limits for Sr	407.771	407.771 Recovery = 94.89%				
Ti	232139.7	0.9656 mg/L	0.00282	0.9656 mg/L	0.00282	0.29%
QC value within limits for Ti	421.552	421.552 Recovery = 96.56%				
V	371889.7	1.010 mg/L	0.0219	1.010 mg/L	0.0219	2.17%
QC value within limits for V	334.940	334.940 Recovery = 101.03%				
W						
QC value within limits for W						

ALAB: 00163
 0.0082 0.81%