

Sequence: 2012_1018
Injection #19: 312205-007/10

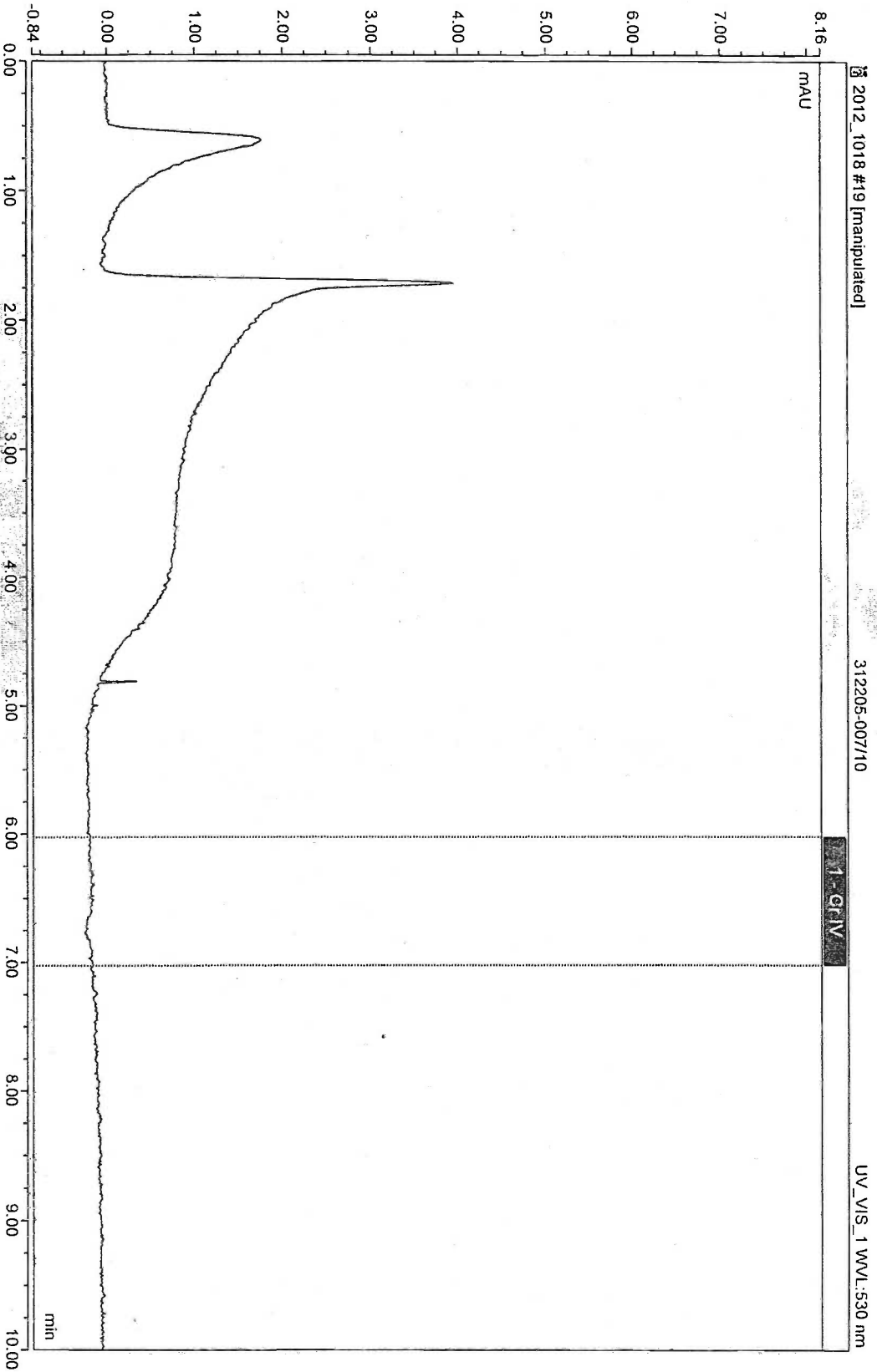
Peak Results

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					



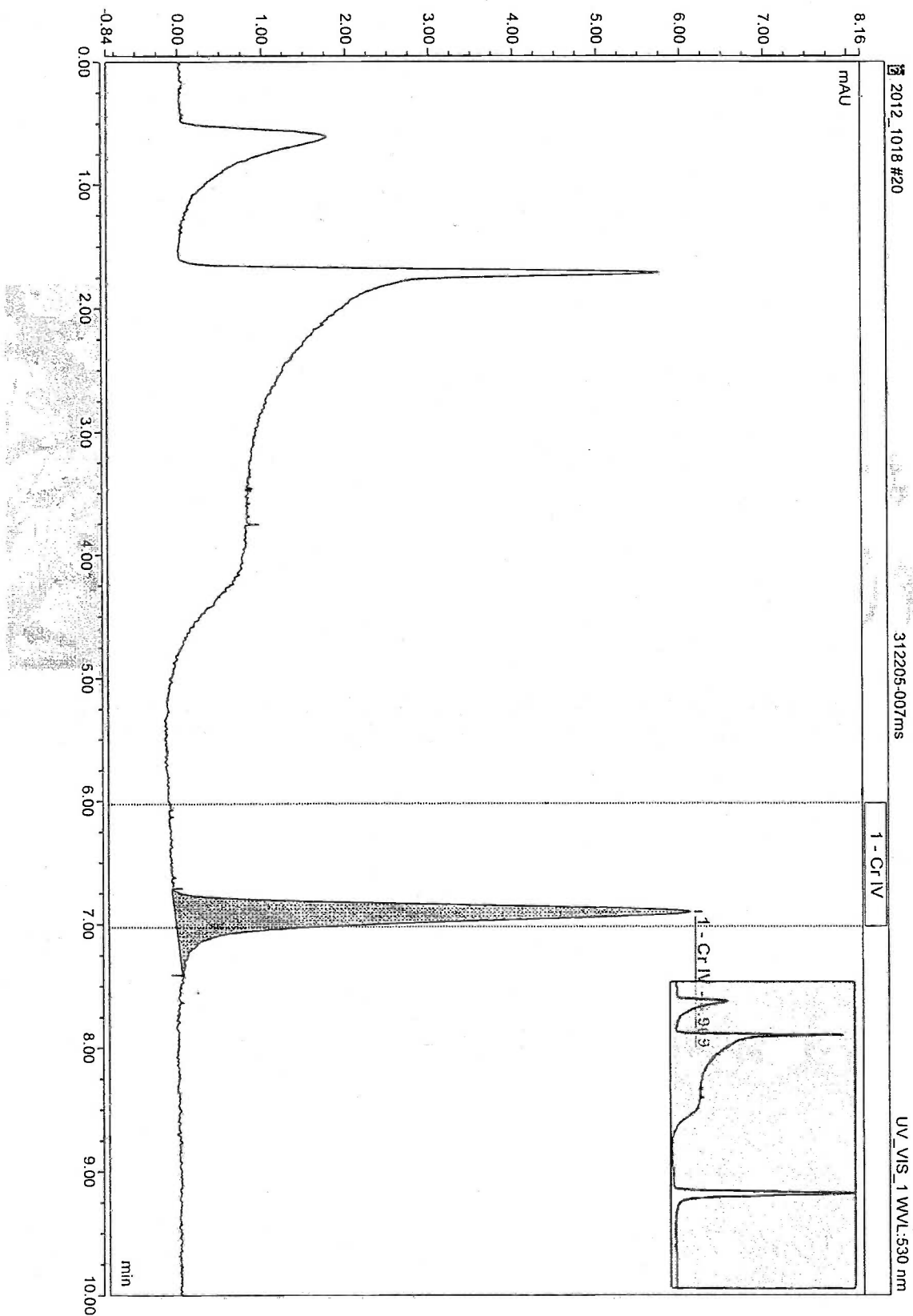
ALAB: 00052

LMC-PET-00001944



Sequence: 2012_1018
Injection #20: 312205-007ms

Chromatogram



ALAB : 00054

Sequence: 2012_1018
Injection #20: 312205-007ms

Peak Results

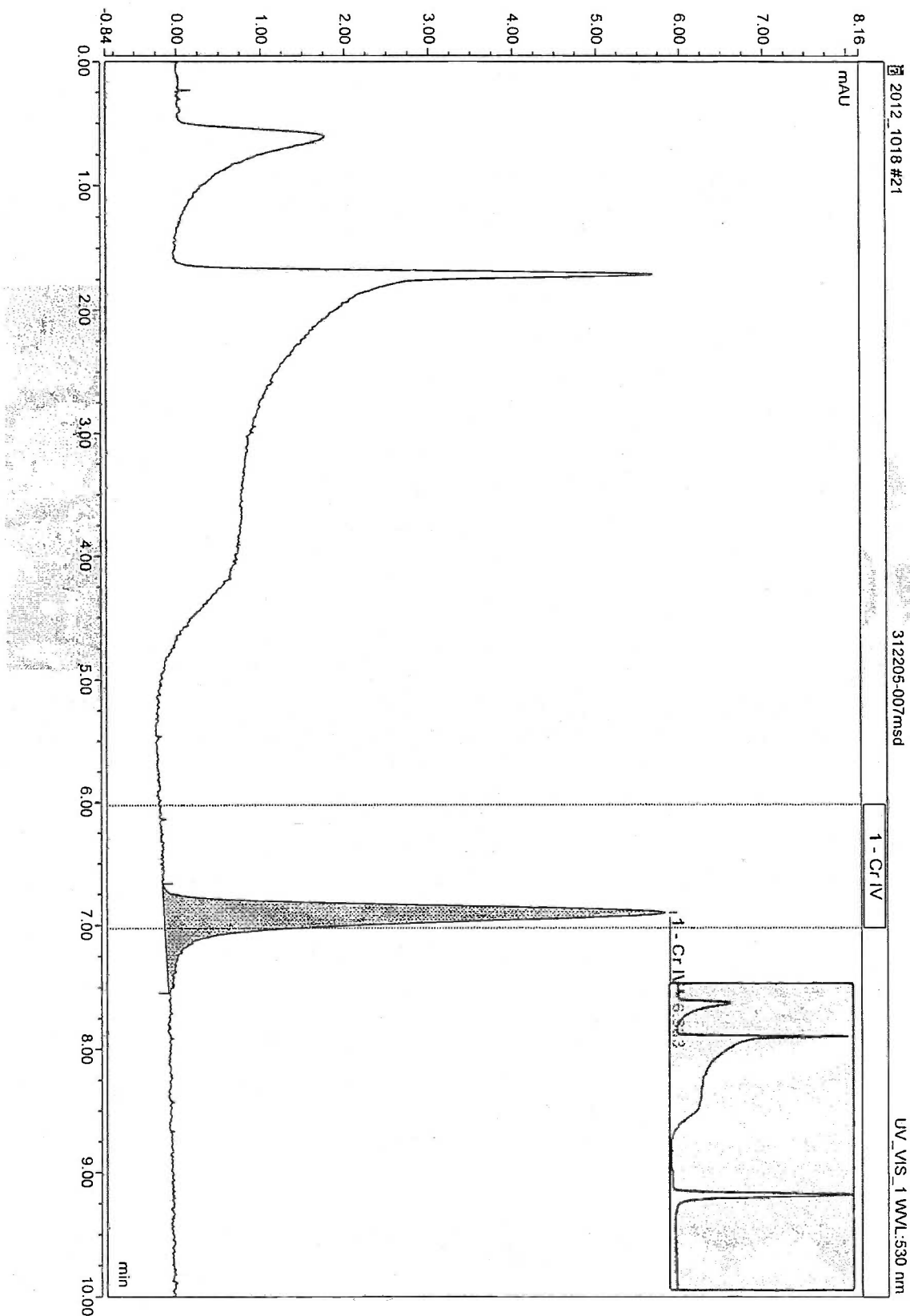
Peak No.	Peak Name	Ret. Time min	Amount ppb	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	C.I.V	6.909	2.2718	100.00	1.0208	6.17	M	0.146	1.34	n.a	12448
Maximum			2.2718	100.00	1.0208	6.17		0.146	1.34	0.00	12448
Minimum			2.2718	100.00	1.0208	6.17		0.146	1.34	0.00	12448
Supp			2.2718	100.00	1.0208	6.17					



ALAB : 000055

Sequence: 2012_1018
Injection #21: 312205-007msd

Chromatogram



ALAB : 00056

Sequence: 2012_1018
Injection #21: 312205-007msd

Peak Results

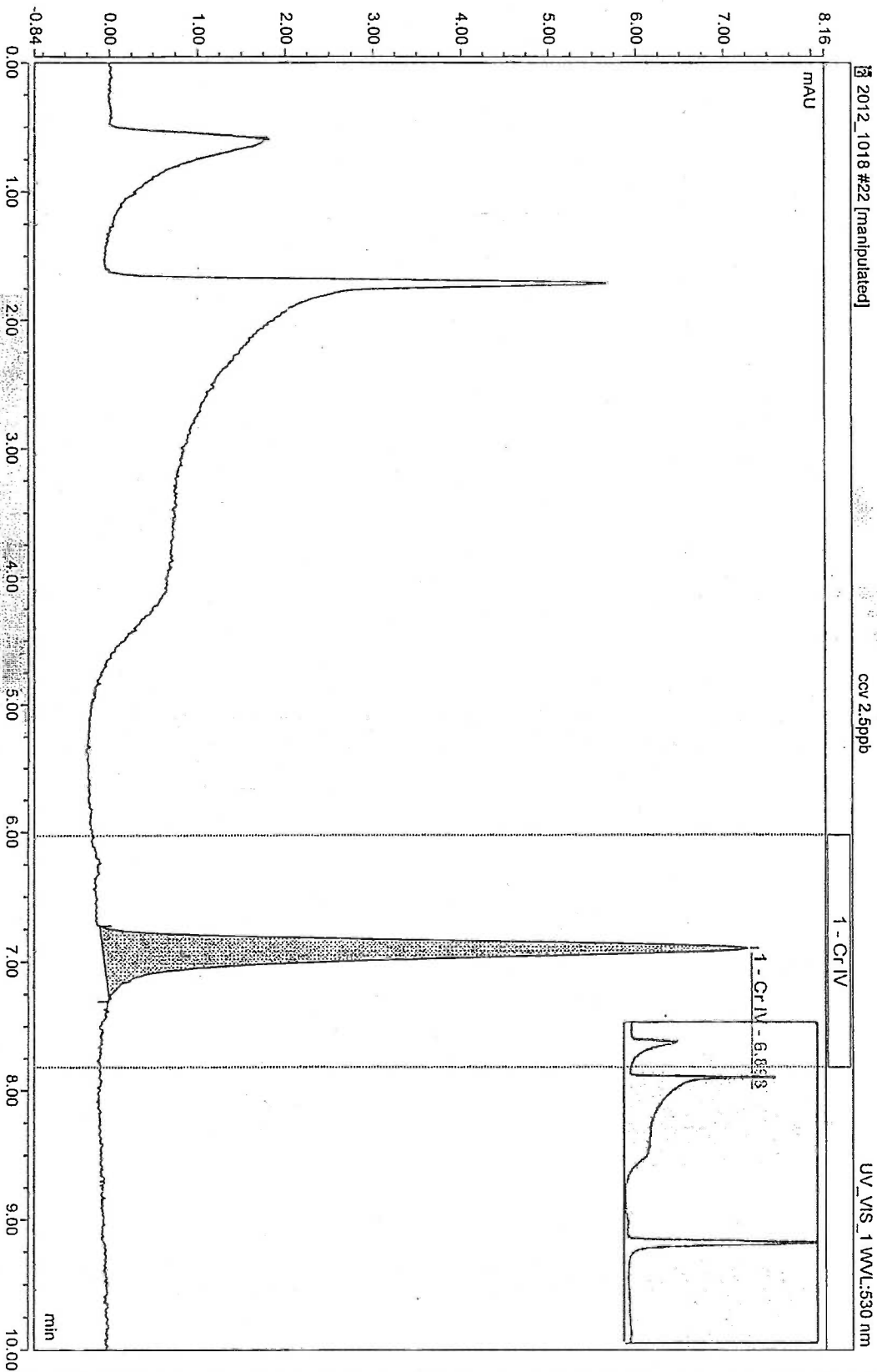
Peak No.	Peak Name	Ret. Time min.	Amount ppb	Rel. Area %	Area mAU min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.903	2.2745	100.00	1.0220	5.99	M	0.147	1.39	n.d	12155
Maximum			2.2745	100.00	1.0220	5.99		0.147	1.39	0.00	12155
Minimum			2.2745	100.00	1.0220	5.99		0.147	1.39	0.00	12155
Sum			2.2745	100.00	1.0220	5.99					



ALAB : 00057

Sequence: 2012_1018
Injection #22: ccv 2.5ppb

Chromatogram

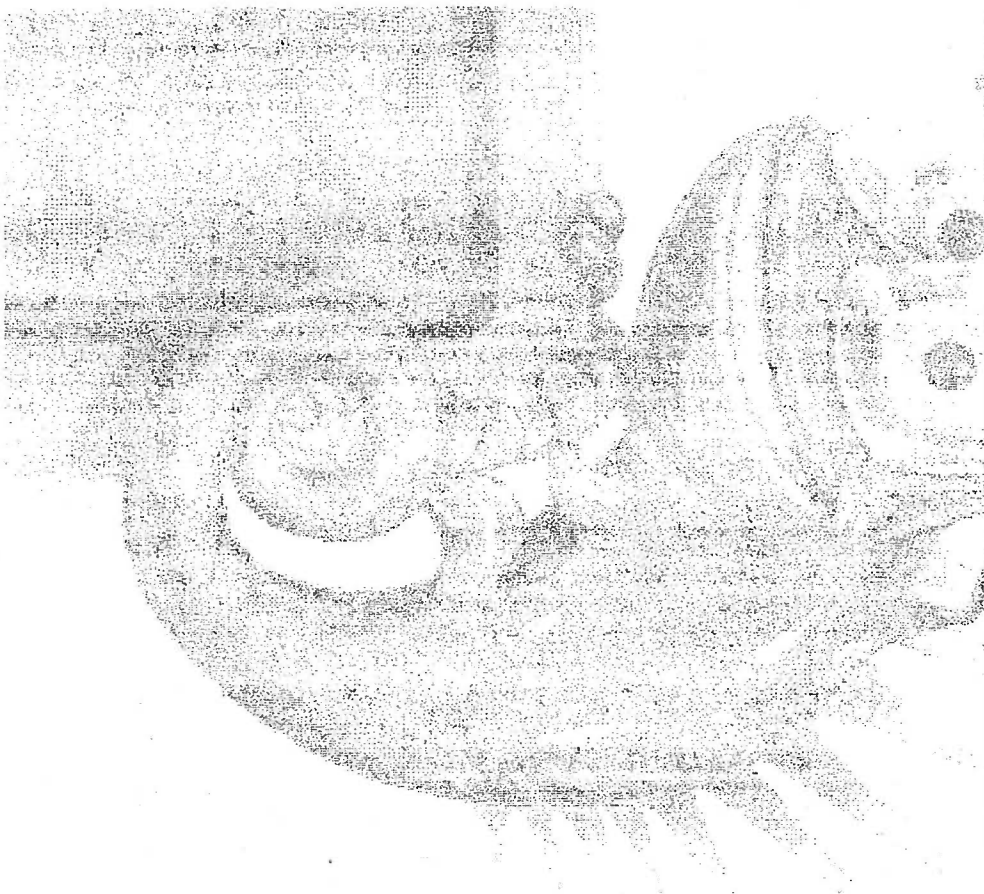


ALAB: 00058

Sequence: 2012_1018
Injection #22: 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	Cr IV	6.898	2.6302	100.00	1.1818	7.33	BMB*	0.145	1.34	n	12577
Maximum			2.6302	100.00	1.1818	7.33		0.145	1.34	0.00	12577
Minimum			2.6302	100.00	1.1818	7.33		0.145	1.34	0.00	12577
Sum			2.6302	100.00	1.1818	7.33					

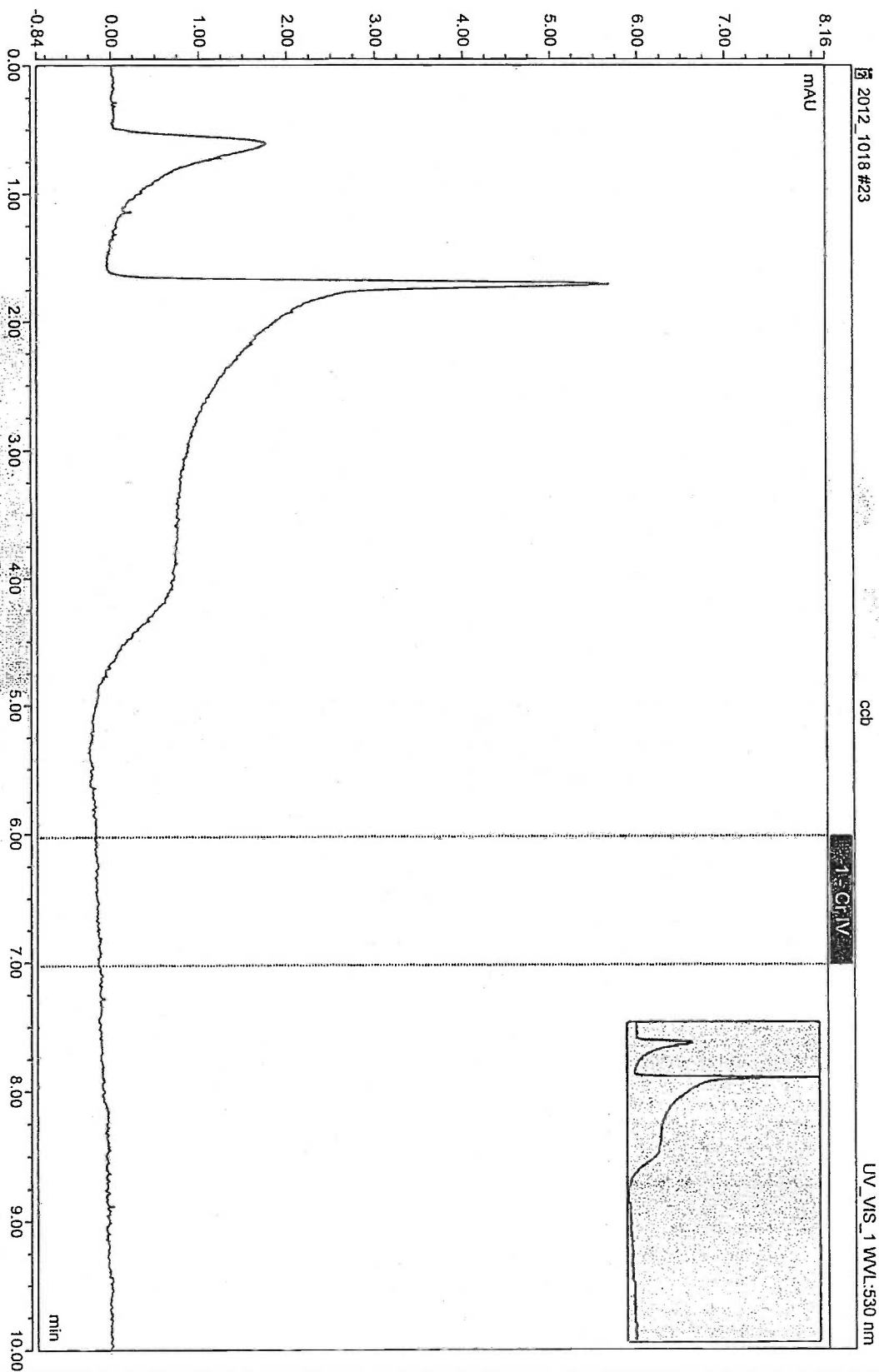


ALAB: 000050

LMC-PET-00001951

Sequence: 2012_1018
Injection #23: ccb

Chromatogram



ALAB : 00060

CONFIDENTIAL

LMC-PET-00001952

Peak No.	Peak Name	Ret Time min	Amount	RelArea %	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: 000001

LMC-PET-00001953

EPA 300.0

ALAB : 00062

CONFIDENTIAL

LMC-PET-00001954

DATA PACKAGE 300-ANIONS

ALAB : 00053

Sequence: 12-10-17
Operator: wei

Page 1 of 4
Printed: 10/22/2012 2:48:14 PM

Title: ClO4
Datasource: AL10410_local
Location: clo4 2012\Anion 2012\10 Oct 2012
Timebase: Assciated_lab
#Samples: 63

Created: 10/17/2012 9:14:46 AM by wei
Last Update: 10/20/2012 5:43:35 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	Unknown	anion_program	PERCHLORATE METHOD	Finished
9	 ccv1	Unknown	anion_program	PERCHLORATE METHOD	Finished
10	 312158-007-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
11	 312158-002-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
12	 312205-002-6	Unknown	anion_program	PERCHLORATE METHOD	Finished
13	 312205-004-8	Unknown	anion_program	PERCHLORATE METHOD	Finished
14	 312205-005-2	Unknown	anion_program	PERCHLORATE METHOD	Finished
15	 312205-007-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
16	 312205-002-6	Unknown	anion_program	PERCHLORATE METHOD	Finished
17	 312205-004-8	Unknown	anion_program	PERCHLORATE METHOD	Finished
18	 312205-005-2	Unknown	anion_program	PERCHLORATE METHOD	Finished
19	 312221-002-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
20	 312221-002-1 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	 312221-002-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
24	 312221-003-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
25	 312221-004-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
26	 312221-005-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
27	 312221-006-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
28	 312221-007-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
29	 312221-008-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
30	 312221-009-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
31	 312221-010-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
32	 312221-011-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
33	 312221-003-1 MS2	Unknown	anion_program	PERCHLORATE METHOD	Finished
34	 CCV3	Unknown	anion_program	PERCHLORATE METHOD	Finished
35	 CCB3	Unknown	anion_program	PERCHLORATE METHOD	Finished
36	 312221-012-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
37	 312221-013-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
38	 312221-014-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
39	 312258-001-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
40	 312298-001-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
41	 312298-002-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
42	 312298-003-1	Unknown	anion_program	PERCHLORATE METHOD	Finished

Sequence: 12-10-17
Operator: wei

Page 2 of 4
Printed: 10/22/2012 2:48:14 PM

Title: CIO4
Datasource: AL10410_local
Location: clo4 2012\Anion 2012\10 Oct 2012
Timebase: Associated_lab
#Samples: 63

Created: 10/17/2012 9:14:46 AM by wei
Last Update: 10/20/2012 5:43:35 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	10/17/2012 9:47:54 AM	1.0000	
9	ccv1	10/17/2012 10:08:51 AM	1.0000	f=8 cl=40 no2=10 no3=20 so4=40
10	312158-007-1	10/17/2012 10:29:54 AM	1.0000	312158-013-1
11	312158-002-1	10/17/2012 10:51:29 AM	5.0000	cdm rep
12	312205-002-6	10/17/2012 11:12:27 AM	1.0000	arcadis no3/no2
13	312205-004-8	10/17/2012 11:35:51 AM	1.0000	arcadis no3/no2 dup
14	312205-005-2	10/17/2012 11:59:06 AM	1.0000	arcadis no3/no2 dup
15	312205-007-1	10/17/2012 12:19:59 PM	1.0000	arcadis no3/no2 mb
16	312205-002-6	10/17/2012 12:39:52 PM	5.0000	arcadis rep for no3
17	312205-004-8	10/17/2012 1:00:08 PM	5.0000	arcadis rep for no3
18	312205-005-2	10/17/2012 1:15:06 PM	5.0000	arcadis rep for no3
19	312221-002-1	10/17/2012 1:30:25 PM	1.0000	CDM CL/SO4/NO3 DUP
20	312221-002-1 MS1	10/17/2012 1:51:18 PM	10.0000	MS1
21	CCV2=LCS1	10/17/2012 2:13:33 PM	1.0000	f=8 cl=40 no2=10 no3=20 so4=40
22	CCB2	10/17/2012 2:34:20 PM	1.0000	
23	312221-002-1	10/17/2012 2:54:36 PM	5.0000	REP FOR CL
24	312221-003-1	10/17/2012 3:06:10 PM	1.0000	CDM CL/SO4/NO3 DUP
25	312221-004-1	10/17/2012 3:26:53 PM	1.0000	CDM CL/SO4/NO3
26	312221-005-1	10/17/2012 3:47:37 PM	1.0000	CDM CL/SO4/NO3
27	312221-006-1	10/17/2012 4:09:40 PM	1.0000	CDM CL/SO4/NO3
28	312221-007-1	10/17/2012 4:30:53 PM	1.0000	CDM CL/SO4/NO3
29	312221-008-1	10/17/2012 4:52:05 PM	1.0000	CDM CL/SO4/NO3
30	312221-009-1	10/17/2012 5:12:45 PM	1.0000	CDM CL/SO4/NO3
31	312221-010-1	10/17/2012 5:39:16 PM	1.0000	CDM CL/SO4/NO3
32	312221-011-1	10/17/2012 6:05:46 PM	1.0000	CDM CL/SO4/NO3
33	312221-003-1 MS2	10/17/2012 6:32:17 PM	10.0000	MS2
34	CCV3	10/17/2012 6:58:47 PM	1.0000	f=8 cl=40 no2=10 no3=20 so4=40
35	CCB3	10/17/2012 7:25:18 PM	1.0000	
36	312221-012-1	10/17/2012 7:51:48 PM	1.0000	CDM CL/SO4/NO3
37	312221-013-1	10/17/2012 8:18:18 PM	1.0000	CDM CL/SO4/NO3
38	312221-014-1	10/17/2012 8:44:49 PM	1.0000	CDM CL/SO4/NO3
39	312258-001-1	10/17/2012 9:11:20 PM	1.0000	NO3 TUSTIN
40	312298-001-1	10/17/2012 9:37:50 PM	1.0000	NO3
41	312298-002-1	10/17/2012 10:04:21 PM	1.0000	NO3
42	312298-003-1	10/17/2012 10:30:51 PM	1.0000	NO3

Sequence: 12-10-17
Operator: wei

Page 3 of 4
Printed: 10/22/2012 2:48:14 PM

Title: CIO4
Datasource: AL10410_local
Location: clo4 2012\Anion 2012\10 Oct 2012
Timebase: Associated_lab
#Samples: 63

Created: 10/17/2012 9:14:46 AM by wei
Last Update: 10/20/2012 5:43:35 PM by wei

No.	Name	Type	Program	Method	Status
43	 312298-004-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
44	 312298-005-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
45	 312298-008-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
46	 312298-008-1 MS3	Unknown	anion_program	PERCHLORATE METHOD	Finished
47	 CCV4=LCS2	Unknown	anion_program	PERCHLORATE METHOD	Finished
48	 CCB4	Unknown	anion_program	PERCHLORATE METHOD	Finished
49	 312298-006-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
50	 312298-007-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
51	 312299-001-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
52	 312299-002-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
53	 312299-003-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
54	 312299-004-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
55	 312299-005-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
56	 312299-006-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
57	 312299-007-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
58	 312299-007-1 MS4	Unknown	anion_program	PERCHLORATE METHOD	Finished
59	 CCV5	Unknown	anion_program	PERCHLORATE METHOD	Finished
60	 CCB 5	Unknown	anion_program	PERCHLORATE METHOD	Finished
61	 END	Unknown	stop program	PERCHLORATE METHOD	Finished
62	 END	Unknown	stop program	PERCHLORATE METHOD	Finished
63	 END	Unknown	stop program	PERCHLORATE METHOD	Finished

Sequence: 12-10-17
Operator: wei

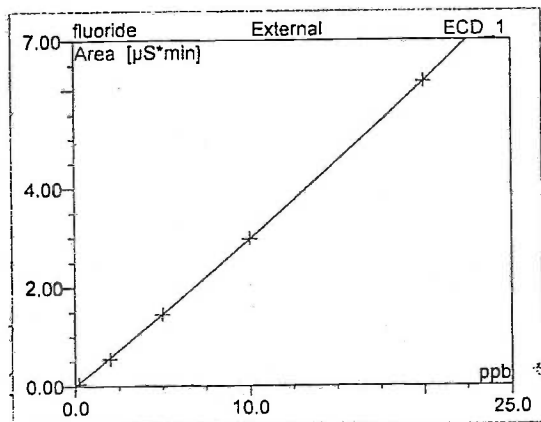
Page 4 of 4
Printed: 10/22/2012 2:48:14 PM

Title: CIO4
Datasource: AL10410_local
Location: clo4 2012\Anion 2012\10 Oct 2012
Timebase: Associated_lab
#Samples: 63

Created: 10/17/2012 9:14:46 AM by wei
Last Update: 10/20/2012 5:43:35 PM by wei

No.	Name	Inj. Date/Time	Dil. Factor	Comment
43	312298-004-1	10/17/2012 10:57:22 PM	1.0000	NO3
44	312298-005-1	10/17/2012 11:23:52 PM	1.0000	NO3
45	312298-008-1	10/17/2012 11:50:23 PM	1.0000	NO3 MB
46	312298-008-1 MS3	10/18/2012 12:16:53 AM	10.0000	MS3
47	CCV4=LCS2	10/18/2012 12:43:24 AM	1.0000	
48	CCB4	10/18/2012 1:09:56 AM	1.0000	
49	312298-006-1	10/18/2012 1:36:27 AM	1.0000	NO3
50	312298-007-1	10/18/2012 2:02:57 AM	1.0000	NO3
51	312299-001-1	10/18/2012 2:29:28 AM	1.0000	NO3
52	312299-002-1	10/18/2012 2:55:58 AM	1.0000	NO3
53	312299-003-1	10/18/2012 3:22:28 AM	1.0000	NO3
54	312299-004-1	10/18/2012 3:48:59 AM	1.0000	NO3
55	312299-005-1	10/18/2012 4:15:29 AM	1.0000	NO3
56	312299-006-1	10/18/2012 4:42:00 AM	1.0000	NO3
57	312299-007-1	10/18/2012 5:08:30 AM	1.0000	NO3
58	312299-007-1 MS4	10/18/2012 5:35:01 AM	10.0000	MS4
59	CCV5	10/18/2012 6:01:32 AM	1.0000	
60	CCB 5	10/18/2012 6:28:02 AM	1.0000	
61	END	10/18/2012 6:54:32 AM	1.0000	
62	END	10/18/2012 6:54:33 AM	1.0000	
63	END	10/18/2012 6:54:33 AM	1.0000	

Sequence:	12-09-27	Inj. Vol.:	20.0
Program:	anion_program	Operator:	n.a.
Ini. 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

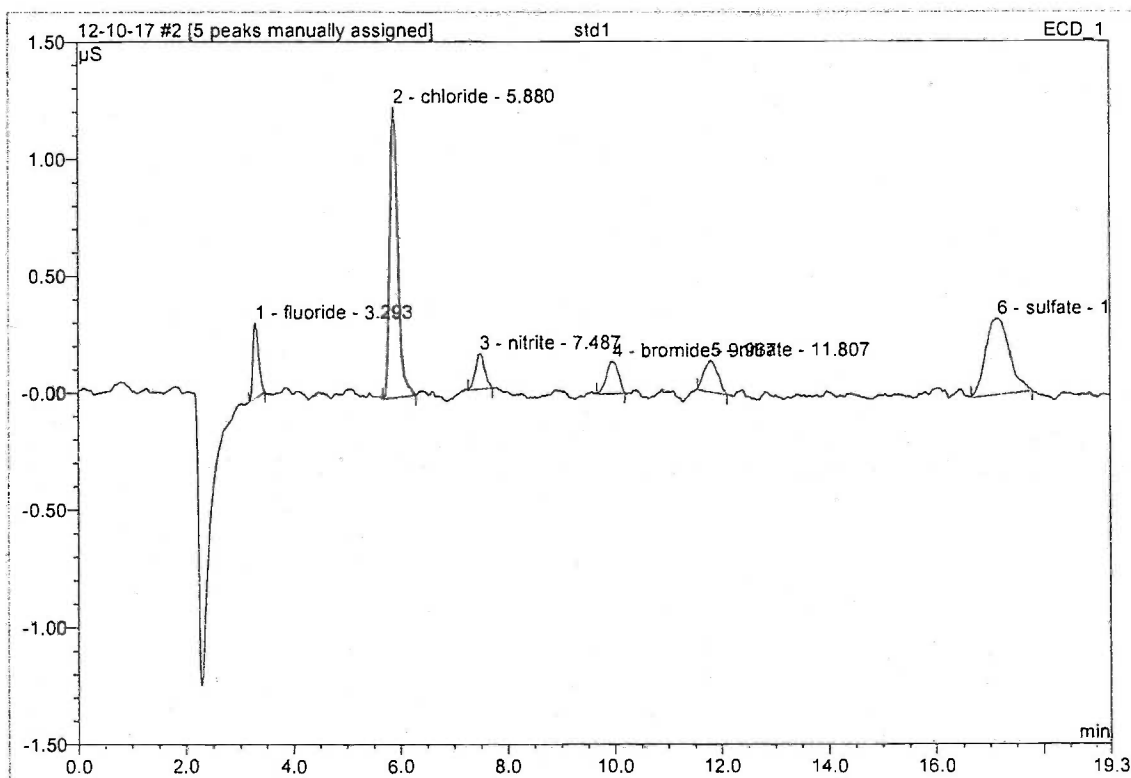
ALAB : 00068

CONFIDENTIAL

LMC-PET-00001960

2 std1**cs080612-1**

Sample Name:	std1	Injection Volume:	20.0
Vial Number:	531	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 9:47	Sample Weight:	1.0000
Run Time (min):	19.27	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

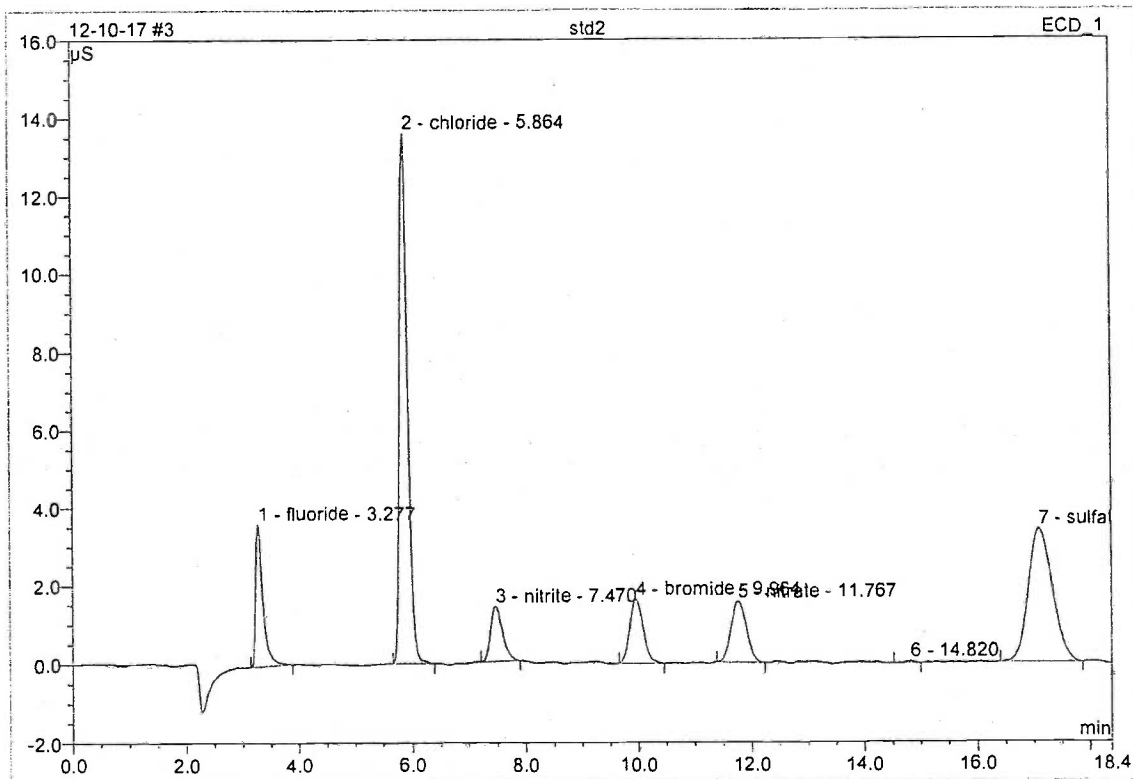
ALAB: 00069

CONFIDENTIAL

LMC-PET-00001961

3 std2**cs080612-2**

Sample Name:	std2	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 10:09	Sample Weight:	1.0000
Run Time (min):	18.38	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

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

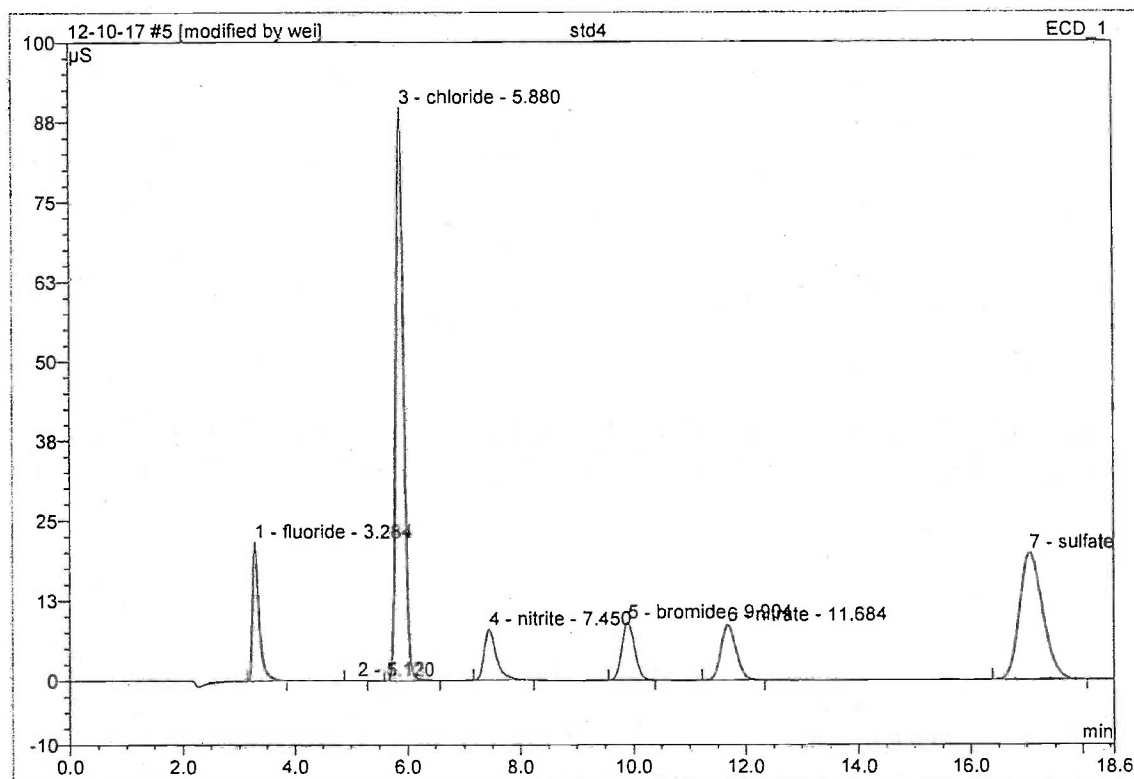
ALAB : 00070

CONFIDENTIAL

LMC-PET-00001962

5 std4**cs080612-4**

Sample Name:	std4	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 10:51	Sample Weight:	1.0000
Run Time (min):	18.57	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

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

ALAB 00071

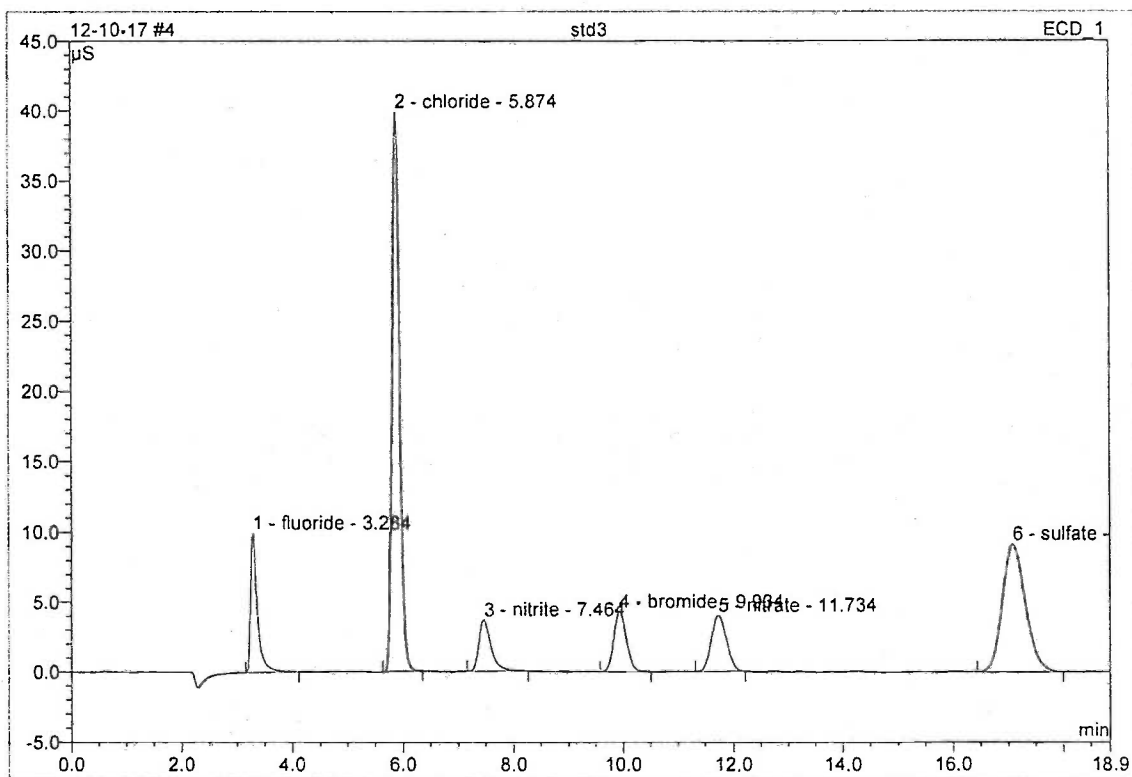
CONFIDENTIAL

LMC-PET-00001963

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

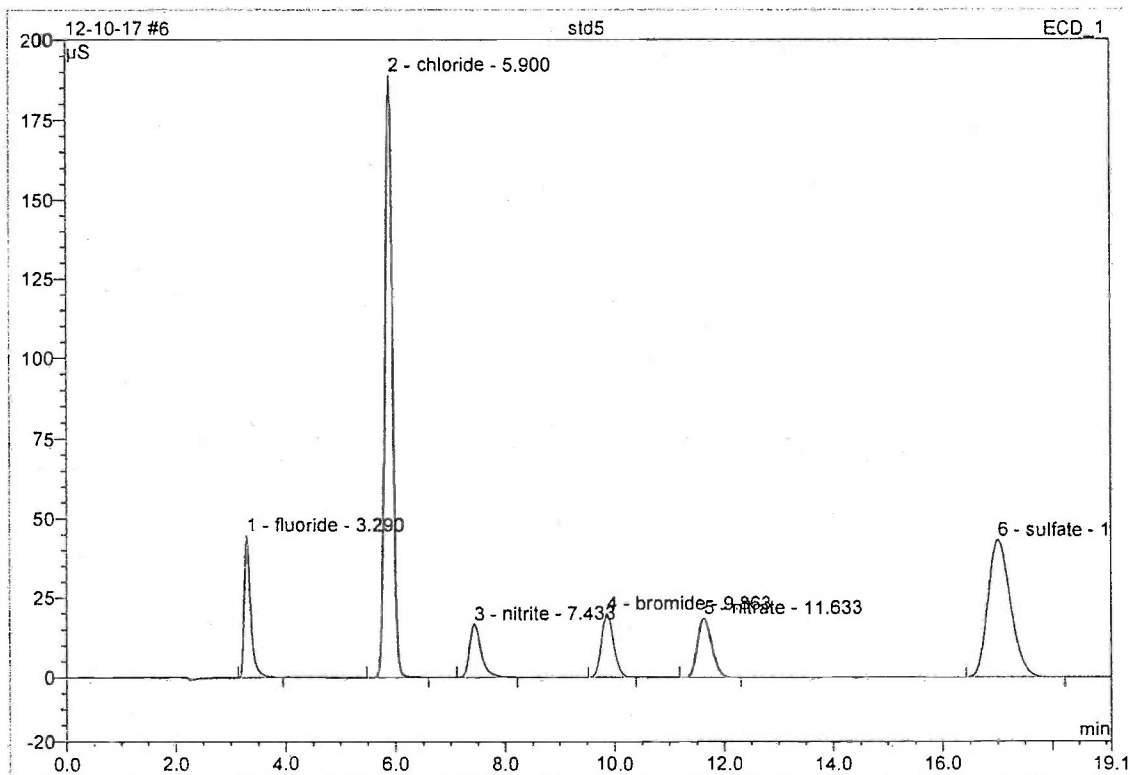
ALAB: 00072

CONFIDENTIAL

LMC-PET-00001964

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

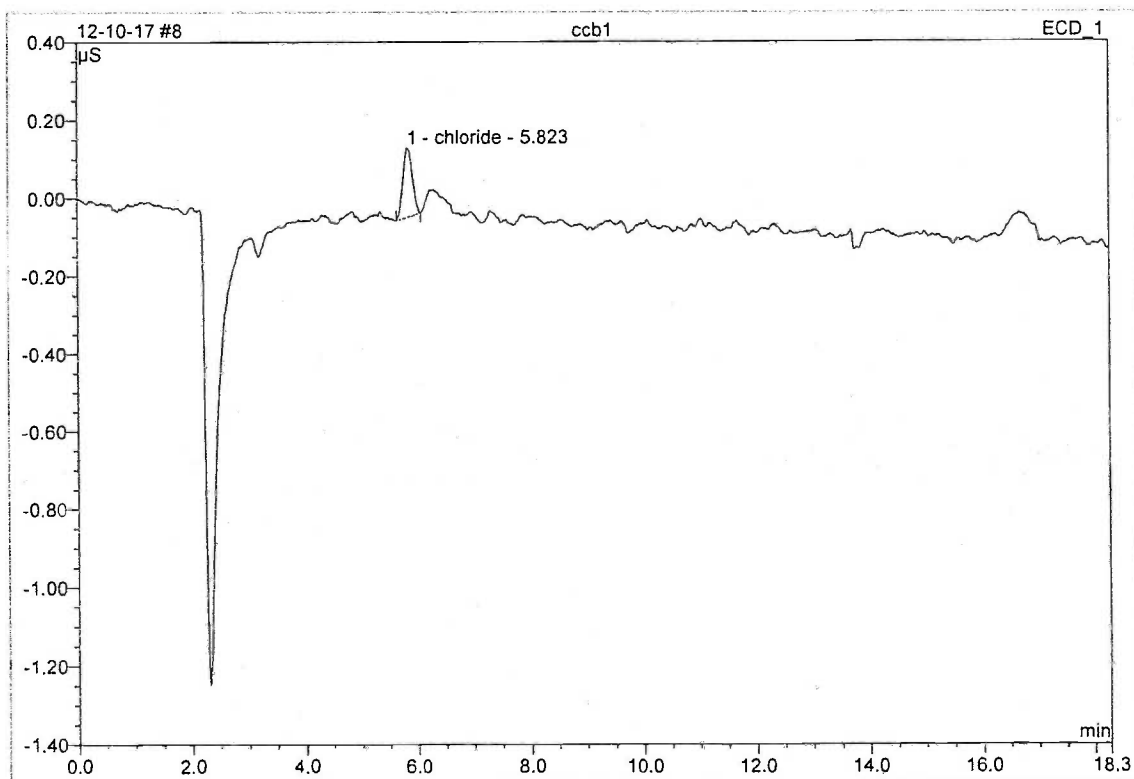
Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB : 00073

8 ccb1

Sample Name: ccb1
Vial Number: 617
Sample Type: unknown
Control Program: anion_program
Quantif. Method: PERCHLORATE METHOD
Recording Time: 10/17/2012 9:47
Run Time (min): 18.27

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	5.82	chloride	0.179	0.034	100.00	0.140	BMB
Total:			0.179	0.034	100.00	0.140	

MB

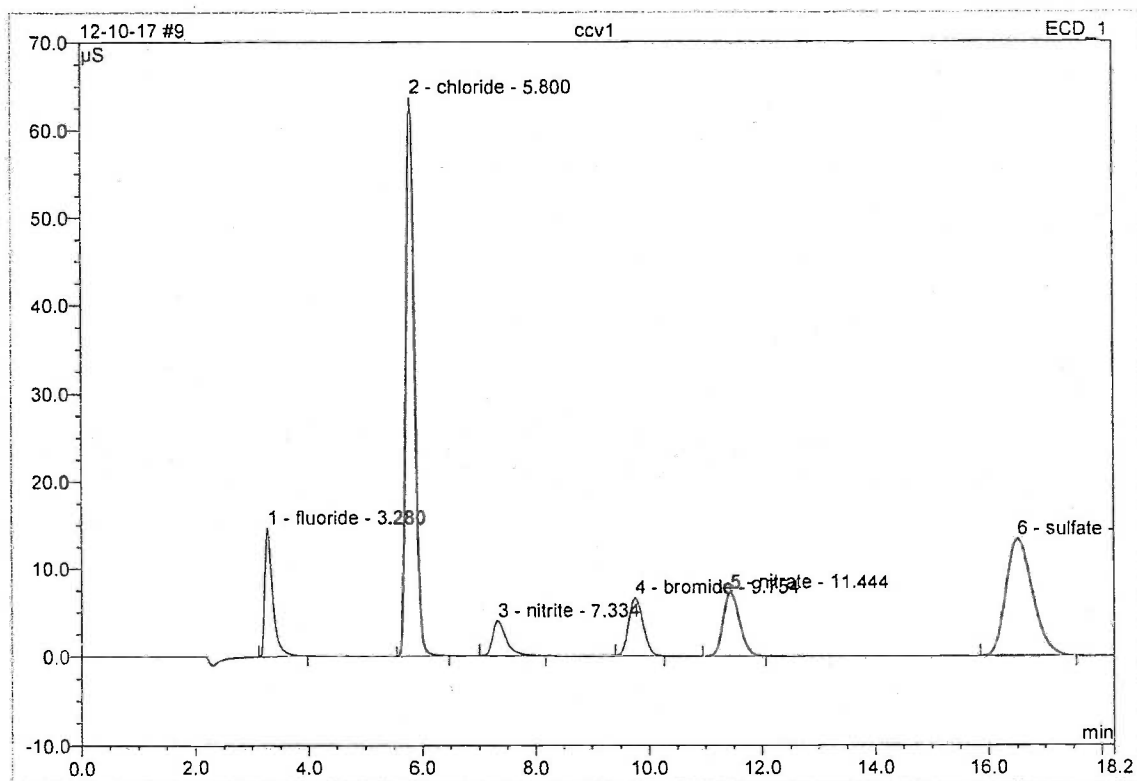
Perchlorate/Integration

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

ALAB : 00074

9 ccv1**f=8 cl=40 no2=10 no3=20 so4=40**

Sample Name:	ccv1	Injection Volume:	20.0
Vial Number:	615	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:	10/17/2012 10:08	Sample Weight:	1.0000
Run Time (min):	18.22	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	14.633	2.347	9.07	7.981	BMB
2	5.80	chloride	63.645	10.846	41.93	40.475	BMB
3	7.33	nitrite	3.923	1.103	4.26	9.537	BMB
4	9.75	bromide	6.579	1.876	7.25	20.178	BMB
5	11.44	nitrate	7.217	2.451	9.48	20.415	BMB
6	16.52	sulfate	13.311	7.245	28.01	39.264	BMB
Total:			109.309	25.867	100.00	137.849	

Perchlorate/Integration

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

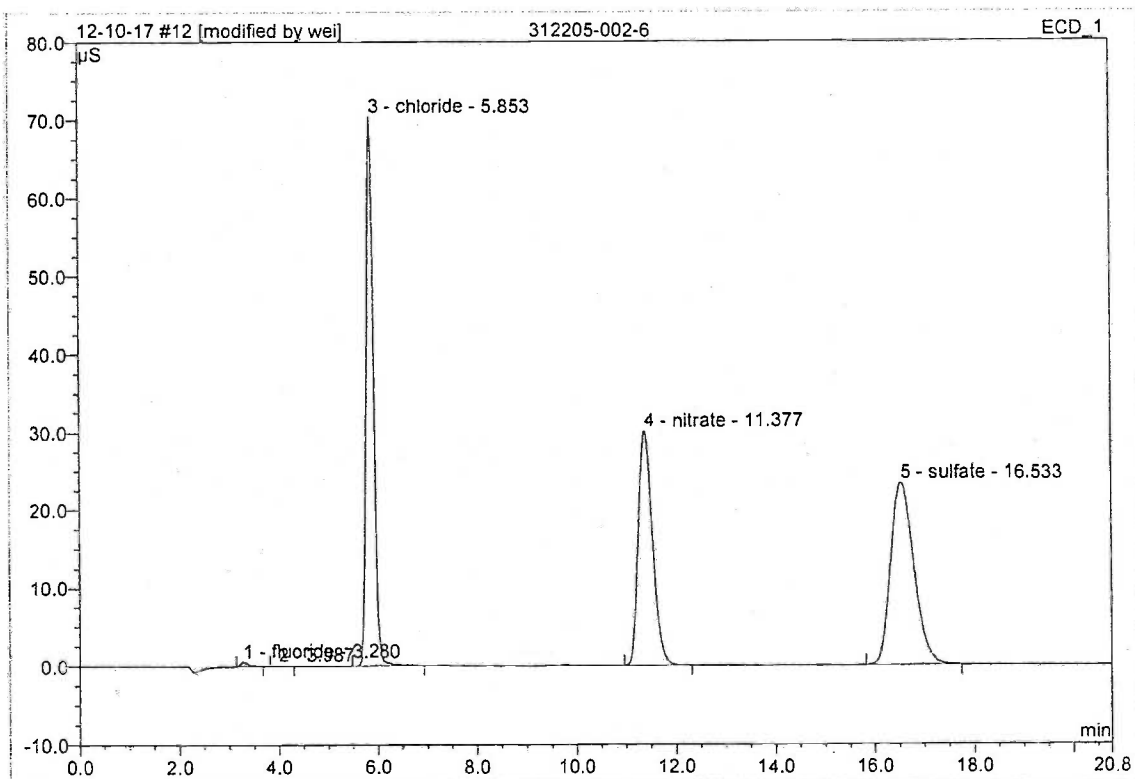
ALAB : 00075

CONFIDENTIAL

LMC-PET-00001967

12 312205-002-6**arcadis no3/no2**

Sample Name:	312205-002-6	Injection Volume:	20.0
Vial Number:	618	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:	10/17/2012 11:12	Sample Weight:	1.0000
Run Time (min):	20.78	Sample Amount:	1.0000



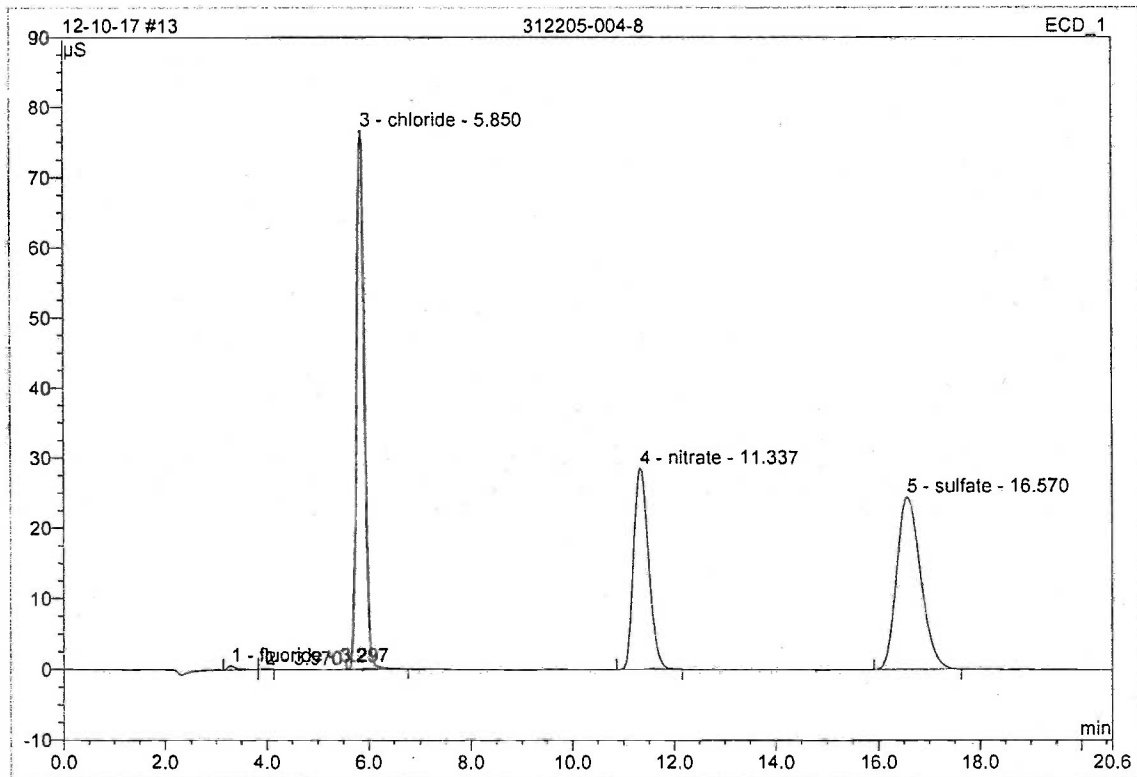
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	0.540	0.093	0.27	0.327	BMB
2	3.99	n.a.	0.088	0.019	0.06	n.a.	BMB
3	5.85	chloride	70.394	12.095	34.65	44.732	BMB
4	11.38	nitrate	30.005	10.027	28.72	70.182	BMB
5	16.53	sulfate	23.306	12.673	36.30	65.311	BMB
Total:			124.333	34.907	100.00	180.552	

Perchlorate/Integration

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

13 312205-004-8**arcadis no3/no2 dup**

Sample Name:	312205-004-8	Injection Volume:	20.0
Vial Number:	619	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:	10/17/2012 11:35	Sample Weight:	1.0000
Run Time (min):	20.62	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.30	fluoride	0.558	0.106	0.29	0.373	BMB
2	3.97	n.a.	0.084	0.013	0.04	n.a.	BMB
3	5.85	chloride	76.705	13.350	36.63	48.940	BMB
4	11.34	nitrate	28.498	9.636	26.43	67.935	BMB
5	16.57	sulfate	24.413	13.344	36.61	68.378	BMB
Total:			130.258	36.450	100.00	185.626	

Perchlorate/Integration

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

ALAB : 00075

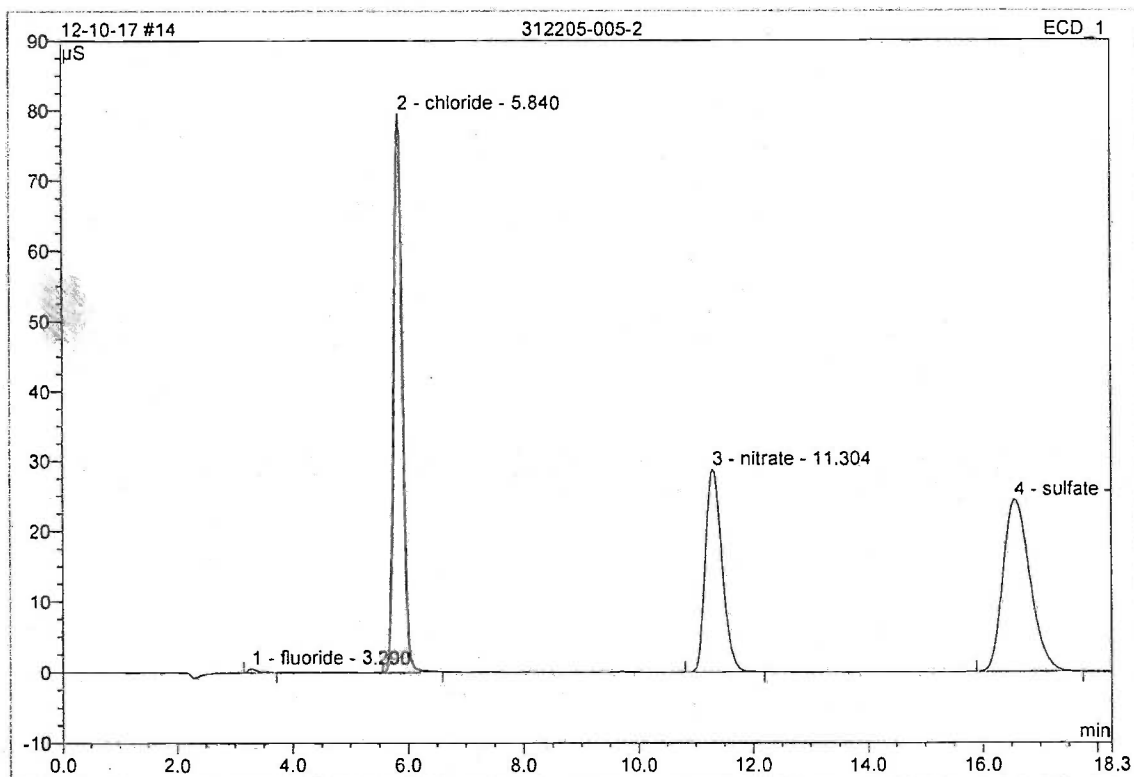
CONFIDENTIAL

LMC-PET-00001969

14 312205-005-2

arcadis no3/no2 dup

Sample Name:	312205-005-2	Injection Volume:	20.0
Vial Number:	620	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:	10/17/2012 11:59	Sample Weight:	1.0000
Run Time (min):	18.25	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	3.29	fluoride	0.559	0.102	0.28	0.358	BMB
2	5.84	chloride	79.581	13.691	37.33	50.069	BMB
3	11.30	nitrate	28.713	9.623	26.24	67.860	BMB
4	16.56	sulfate	24.288	13.260	36.15	67.994	BMB
Total:			133.142	36.675	100.00	186.281	

Perchlorate/Integration

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

ALAB : 00077

CONFIDENTIAL

LMC-PET-00001970

15 312205-007-1**arcadis no3/no2 mb**

Sample Name: 312205-007-1

Vial Number: 645

Sample Type: unknown

Control Program: anion_program

Quantif. Method: PERCHLORATE METHOD

Recording Time: 10/17/2012 12:19

Run Time (min): 17.25

Injection Volume: 20.0

Channel: ECD_1

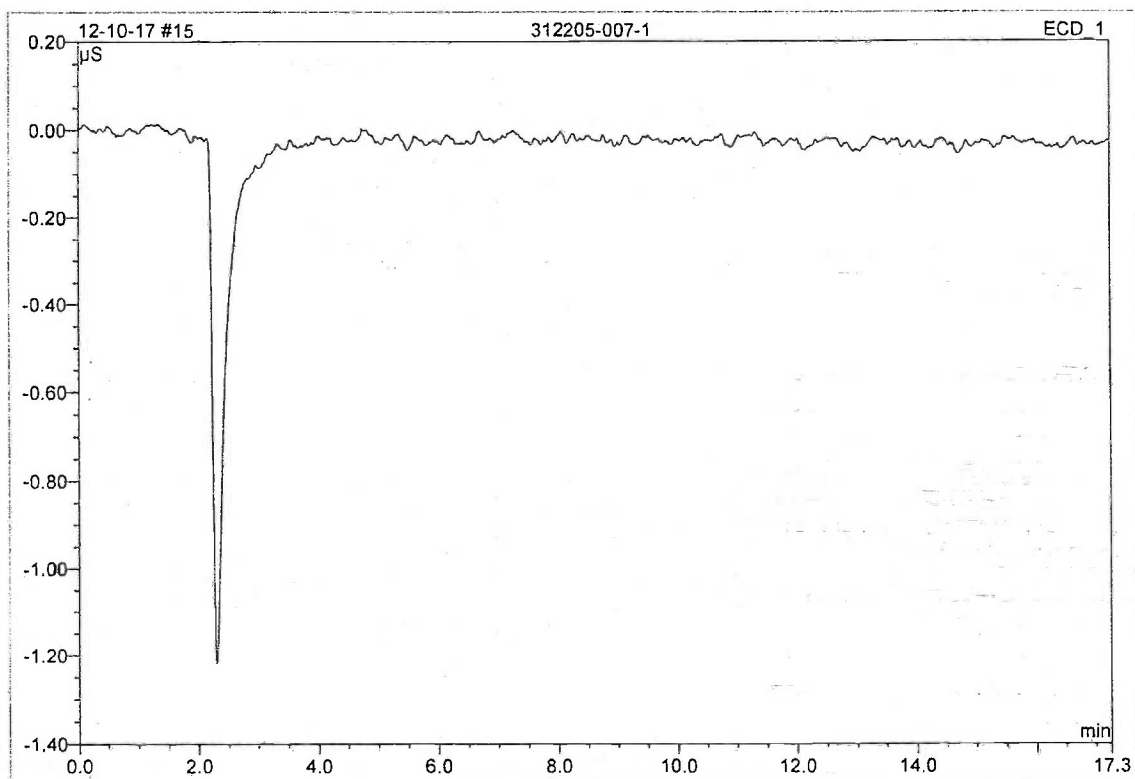
Wavelength: n.a.

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
Total:			0.000	0.000	0.00	0.000	

Perchlorate/Integration

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

ALAB: 00078

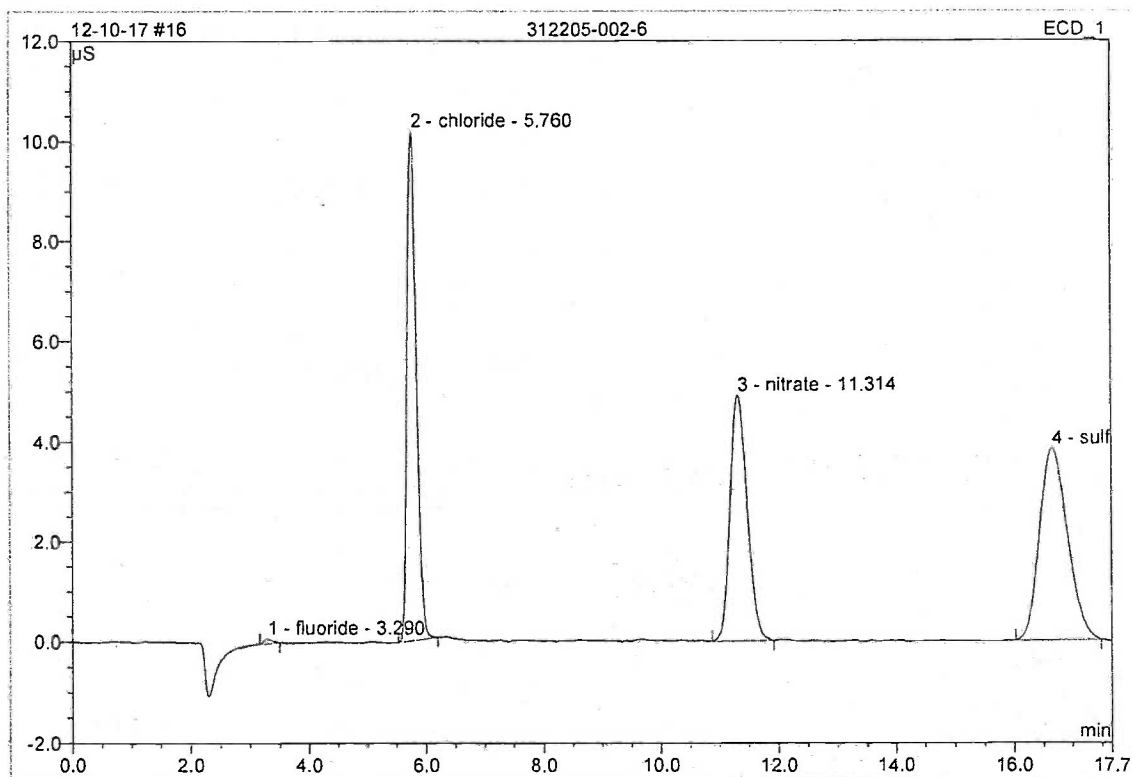
CONFIDENTIAL

LMC-PET-00001971

16 312205-002-6

arcadis rep for no3

Sample Name:	312205-002-6	Injection Volume:	20.0
Vial Number:	646	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	anion_program	Bandwidth:	n.a.
Quantif. Method:	PERCHLORATE METHOD	Dilution Factor:	5.0000
Recording Time:	10/17/2012 12:39	Sample Weight:	1.0000
Run Time (min):	17.67	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μ S	Area μ S*min	Rel.Area %	Amount ppb	Type
1	3.29	fluoride	0.094	0.015	0.27	0.261	BMB
2	5.76	chloride	10.179	1.826	32.60	36.667	BMB
3	11.31	nitrate	4.883	1.647	29.39	70.278	BMB
4	16.66	sulfate	3.817	2.115	37.75	60.566	BMB
Total:			18.973	5.603	100.00	167.773	

Perchlorate/Integration

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

ALAB: 00079

CONFIDENTIAL

LMC-PET-00001972

17 312205-004-8

arcadis rep for no3

Sample Name: 312205-004-8

Vial Number: 647

Sample Type: unknown

Control Program: anion_program

Quantif. Method: PERCHLORATE METHOD

Recording Time: 10/17/2012 13:00

Run Time (min): 12.39

Injection Volume: 20.0

Channel: ECD_1

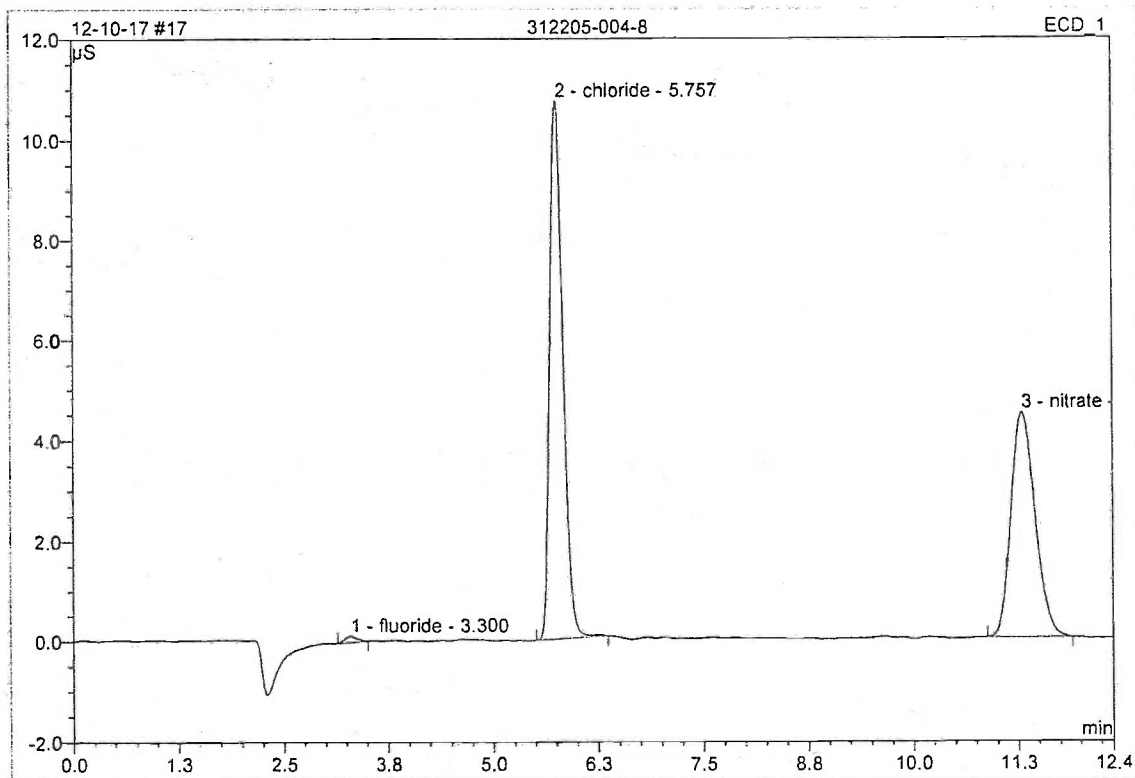
Wavelength: n.a.

Bandwidth: n.a.

Dilution Factor: 5.0000

Sample Weight: 1.0000

Sample Amount: 1.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount ppb	Type
1	3.30	fluoride	0.123	0.022	0.63	0.382	BMB
2	5.76	chloride	10.726	1.944	56.16	38.997	BMB
3	11.30	nitrate	4.462	1.496	43.22	64.167	BMB
Total:			15.311	3.463	100.00	103.546	

Perchlorate/Integration

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

ALAB: 00080

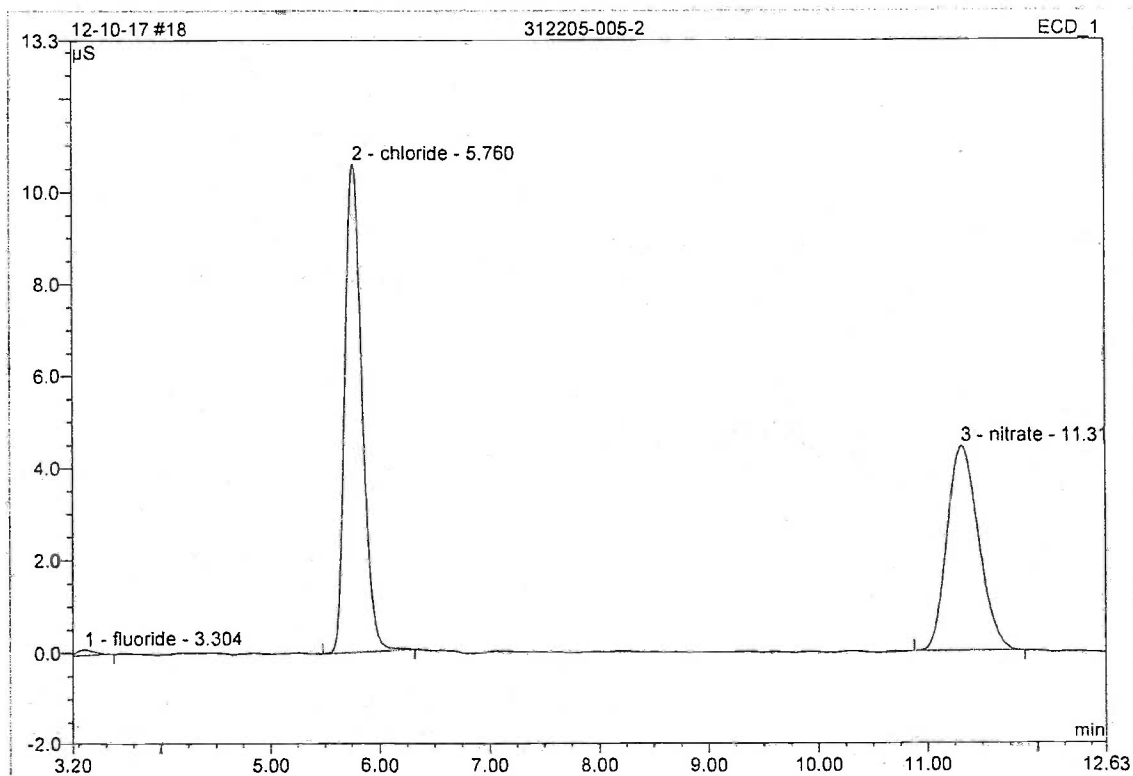
CONFIDENTIAL

LMC-PET-00001973

18 312205-005-2

arcadis rep for no3

Sample Name:	312205-005-2	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:	5.0000
Recording Time:	10/17/2012 13:15	Sample Weight:	1.0000
Run Time (min):	12.64	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	0.023	0.69	0.410	BMB
2	5.76	chloride	10.586	1.912	56.05	38.352	BMB
3	11.31	nitrate	4.424	1.476	43.26	63.316	BMB
Total:			15.135	3.411	100.00	102.078	

Perchlorate/Integration

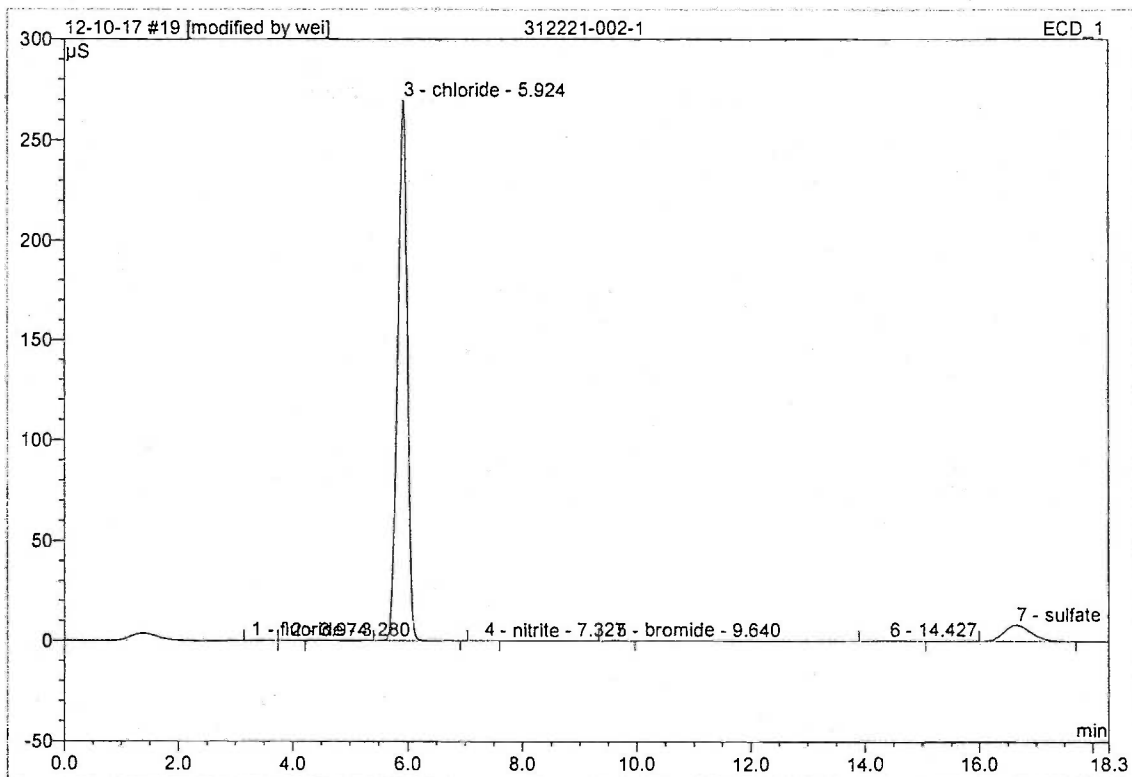
Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB : 00081

19 312221-002-1**CDM CL/SO4/NO3 DUP**

Sample Name: 312221-002-1
 Vial Number: 649
 Sample Type: unknown
 Control Program: anion_program
 Quantif. Method: PERCHLORATE METHOD
 Recording Time: 10/17/2012 13:30
 Run Time (min): 18.28

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	0.278	0.063	0.11	0.222	BM
2	3.97	n.a.	0.091	0.022	0.04	n.a.	MB
3	5.92	chloride	269.619	51.480	91.36	154.556	BMB*
4	7.33	nitrite	0.045	0.011	0.02	0.099	BMB*
5	9.64	bromide	0.309	0.090	0.16	1.027	BMB
6	14.43	n.a.	0.398	0.224	0.40	n.a.	BMB
7	16.65	sulfate	8.069	4.461	7.92	24.887	BMB
Total:			278.808	56.351	100.00	180.791	

Perchlorate/Integration

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

ALAB : 000062

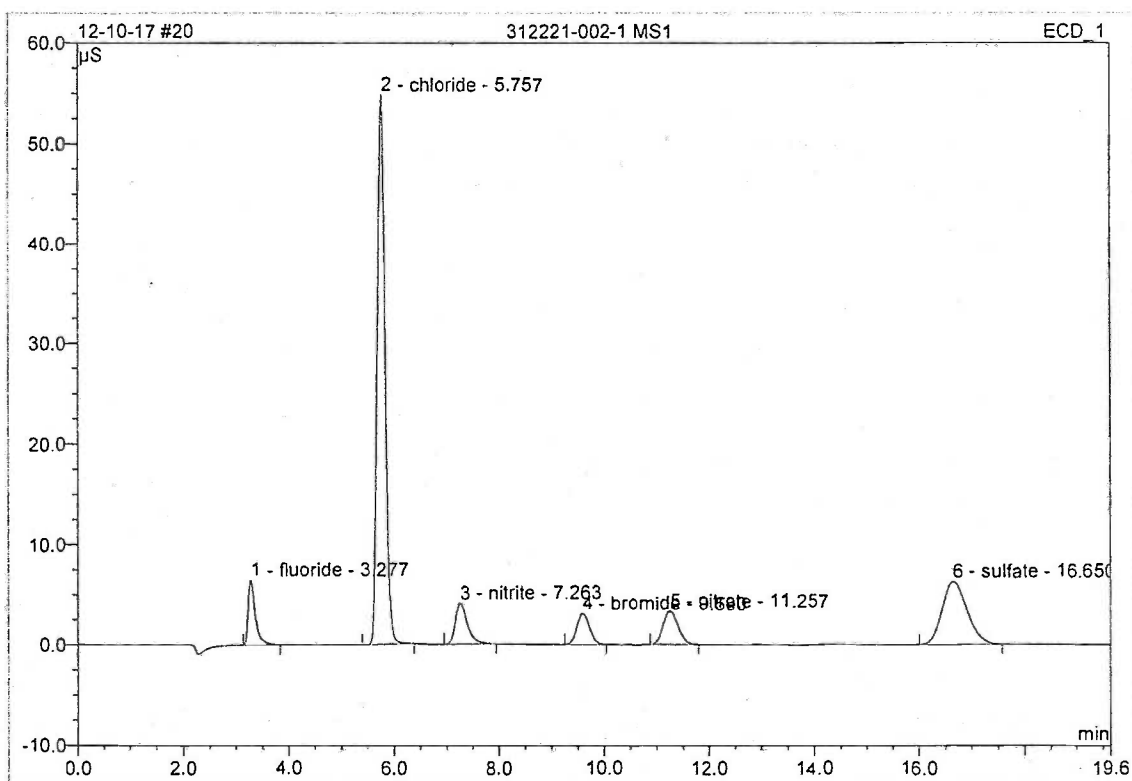
CONFIDENTIAL

LMC-PET-00001975

20 312221-002-1 MS1**MS1**

Sample Name: 312221-002-1 MS1
 Vial Number: 650
 Sample Type: unknown
 Control Program: anion_program
 Quantif. Method: PERCHLORATE METHOD
 Recording Time: 10/17/2012 13:51
 Run Time (min): 19.64

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 µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	6.494	1.041	6.14	36.025	BMB
2	5.76	chloride	54.805	9.375	55.31	353.697	BMB
3	7.26	nitrite	4.094	1.096	6.47	94.849	BMB
4	9.59	bromide	3.076	0.871	5.14	96.858	BMB
5	11.26	nitrate	3.322	1.098	6.48	95.446	BMB
6	16.65	sulfate	6.303	3.469	20.46	195.635	BMB
Total:			78.094	16.951	100.00	872.509	

MS1

Perchlorate/Integration

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

ALAB: 00083

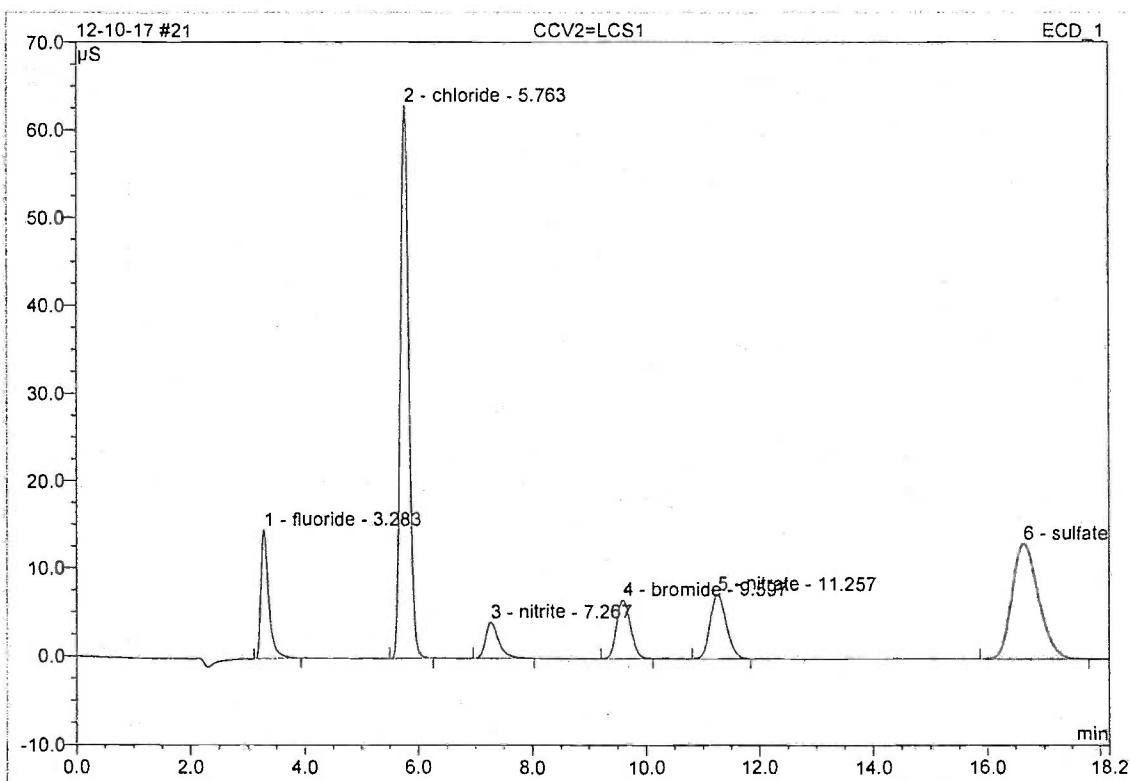
CONFIDENTIAL

LMC-PET-00001976

21 CCV2=LCS1

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

Sample Name:	CCV2=LCS1	Injection Volume:	20.0
Vial Number:	651	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:	10/17/2012 14:13	Sample Weight:	1.0000
Run Time (min):	18.15	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu S \cdot min$	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	14.616	2.274	8.94	7.738	BMB
2	5.76	chloride	62.941	10.710	42.13	40.009	BMB
3	7.27	nitrite	4.065	1.102	4.33	9.530	BMB
4	9.60	bromide	6.628	1.855	7.30	19.967	BMB
5	11.26	nitrate	7.272	2.395	9.42	19.981	BMB
6	16.65	sulfate	13.034	7.083	27.86	38.449	BMB
Total:			108.556	25.419	100.00	135.674	

LCS

Perchlorate/Integration

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

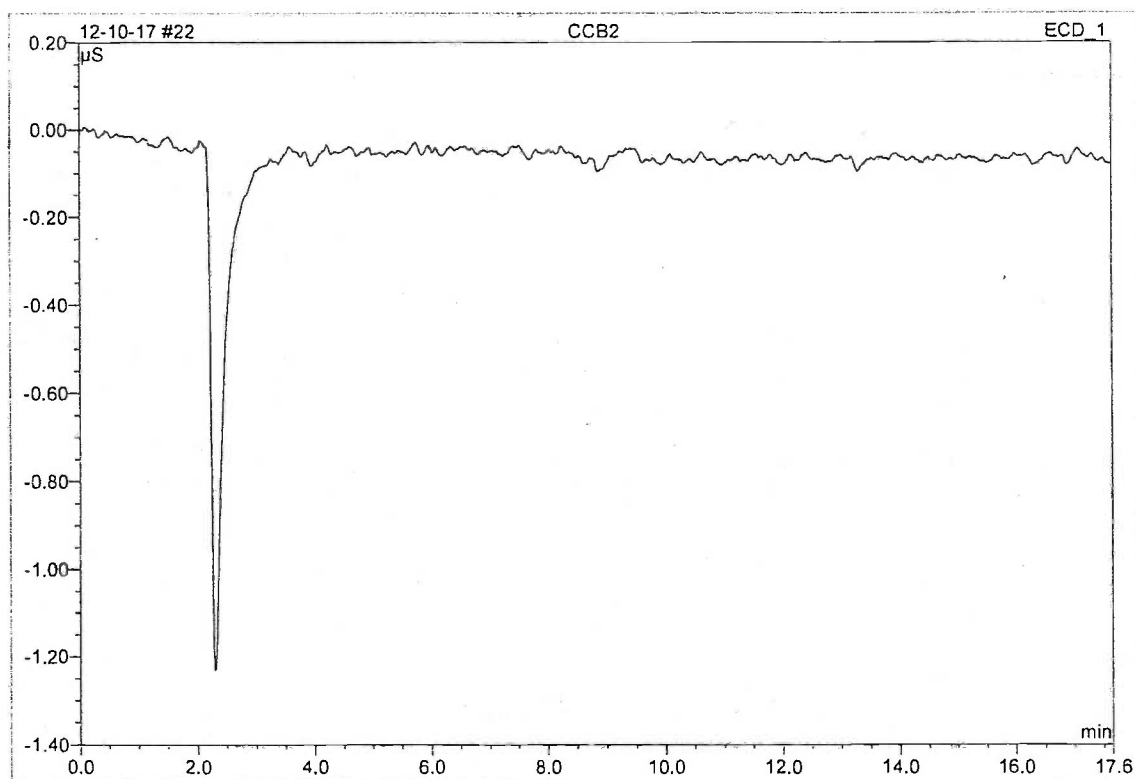
ALAB : 000084

CONFIDENTIAL

LMC-PET-00001977

22 CCB2

Sample Name:	CCB2	Injection Volume:	20.0
Vial Number:	652	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:	10/17/2012 14:34	Sample Weight:	1.0000
Run Time (min):	17.65	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	

Perchlorate/Integration

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

ALAB : 000085

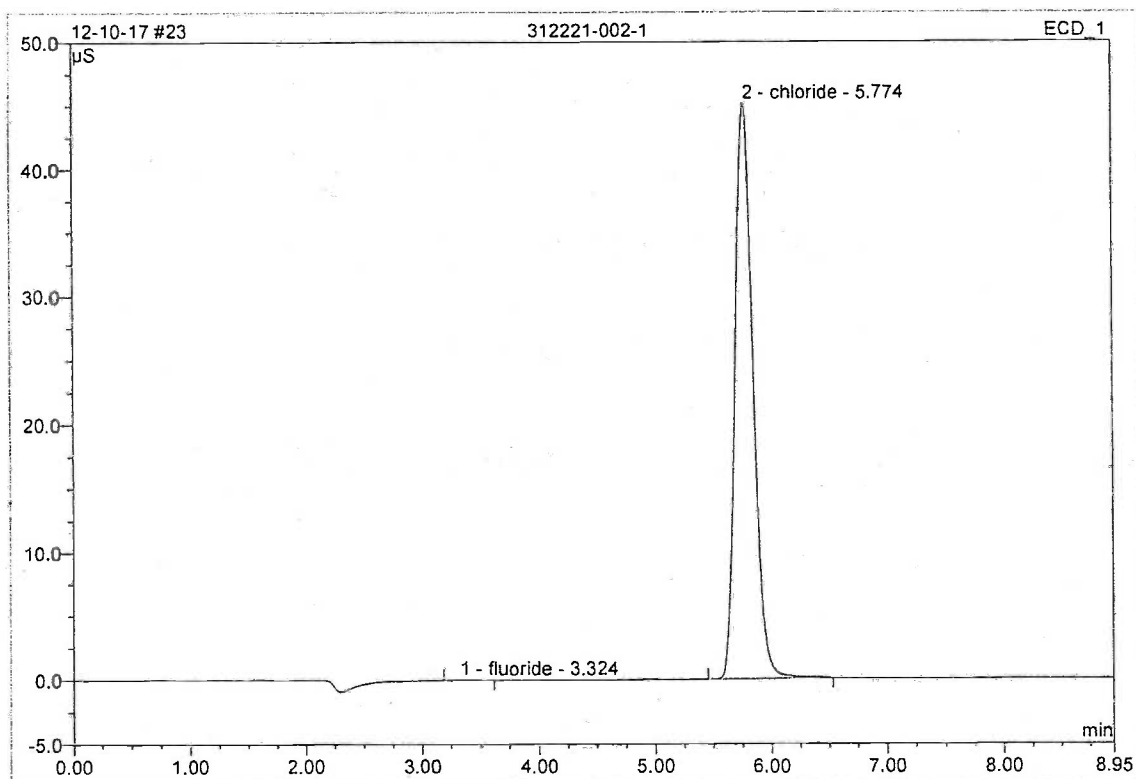
CONFIDENTIAL

LMC-PET-00001978

23 312221-002-1**REP FOR CL**

Sample Name: 312221-002-1
Vial Number: 653
Sample Type: unknown
Control Program: anion_program
Quantif. Method: PERCHLORATE METHOD
Recording Time: 10/17/2012 14:54
Run Time (min): 8.95

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 $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount ppb	Type
1	3.32	fluoride	0.068	0.014	0.17	0.237	BMB
2	5.77	chloride	45.115	8.067	99.83	153.713	BMB
Total:			45.183	8.080	100.00	153.950	

Perchlorate/Integration

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

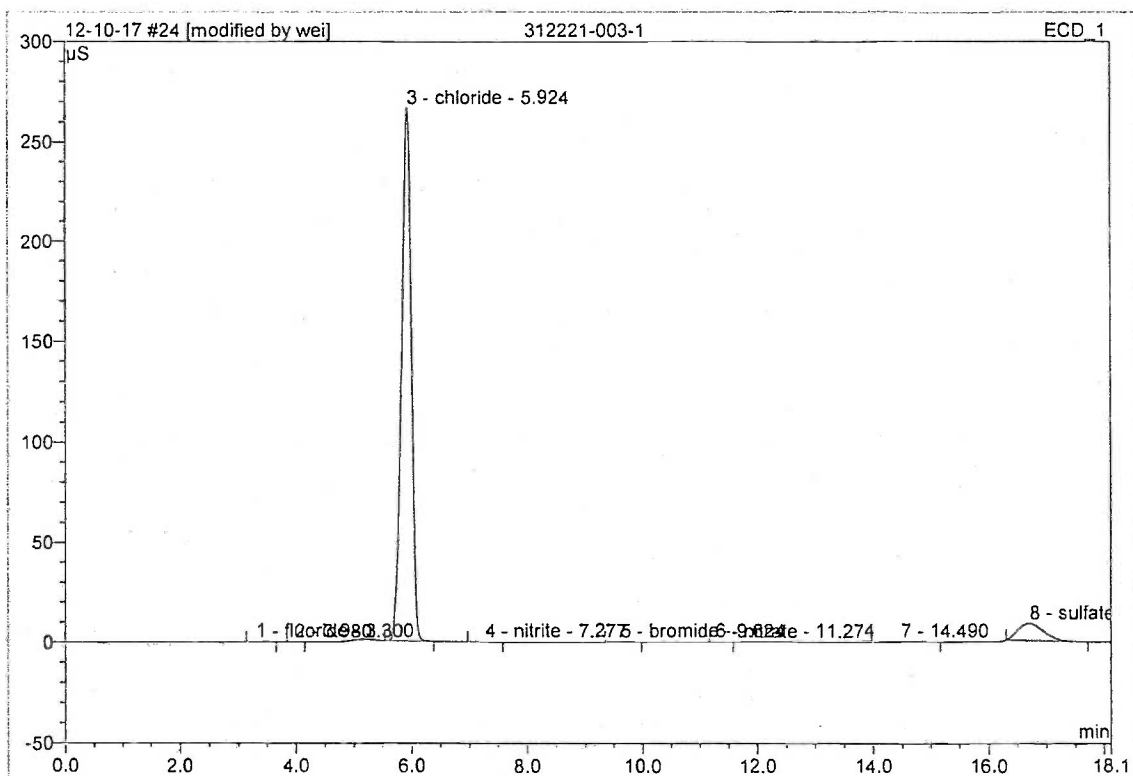
ALAB : 00005

CONFIDENTIAL

LMC-PET-00001979

24 312221-003-1**CDM CL/SO4/NO3 DUP**

Sample Name:	312221-003-1	Injection Volume:	20.0
Vial Number:	654	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:	10/17/2012 15:06	Sample Weight:	1.0000
Run Time (min):	18.12	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.30	fluoride	0.253	0.043	0.08	0.150	BMB
2	3.98	n.a.	0.055	0.008	0.01	n.a.	BMB
3	5.92	chloride	266.192	51.032	91.50	153.493	BMB*
4	7.28	nitrite	0.059	0.018	0.03	0.160	BMB*
5	9.62	bromide	0.291	0.082	0.15	0.935	BMB
6	11.27	nitrate	0.033	0.008	0.01	0.074	BMB*
7	14.49	n.a.	0.342	0.189	0.34	n.a.	BMB
8	16.71	sulfate	8.576	4.392	7.87	24.517	BMB*
Total:			275.801	55.772	100.00	179.329	

Perchlorate/Integration

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

ALAB: 00087

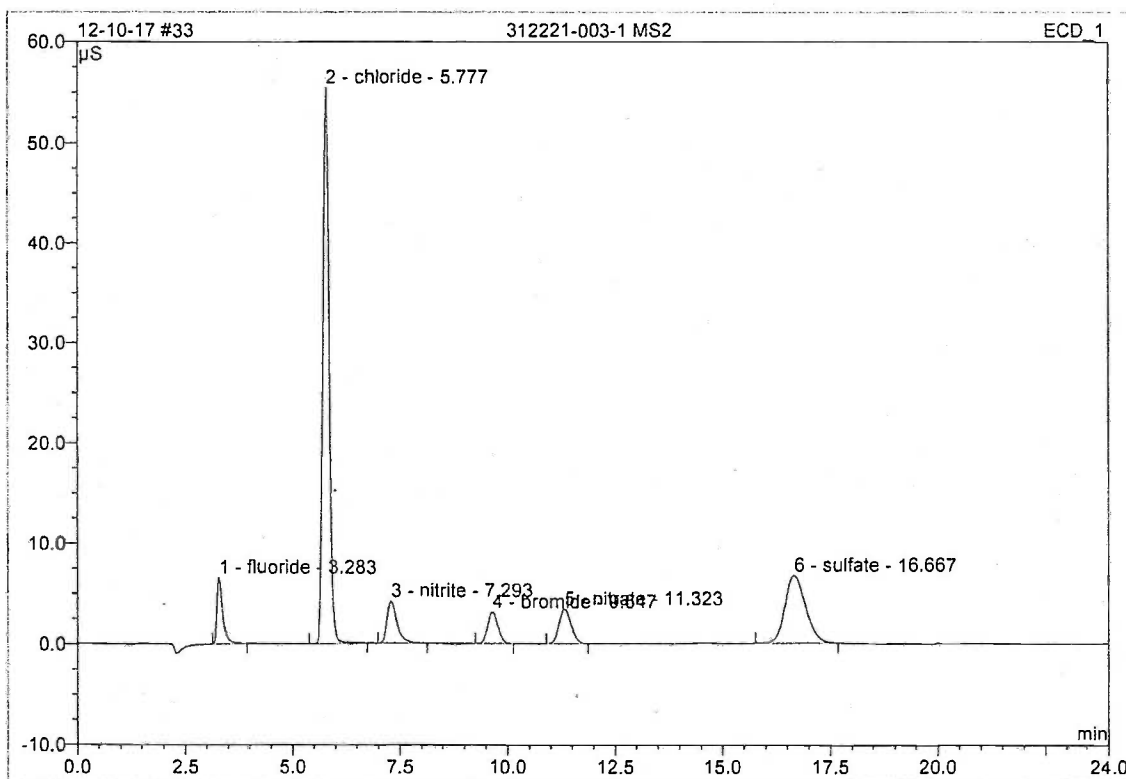
CONFIDENTIAL

LMC-PET-00001980

33 312221-003-1 MS2**MS2**

Sample Name: 312221-003-1 MS2
 Vial Number: 663
 Sample Type: unknown
 Control Program: anion_program
 Quantif. Method: PERCHLORATE METHOD
 Recording Time: 10/17/2012 18:32
 Run Time (min): 24.00

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 µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	6.586	1.052	6.06	36.394	BMB
2	5.78	chloride	55.417	9.463	54.47	356.792	BMB
3	7.29	nitrite	4.169	1.125	6.47	97.219	BMB
4	9.65	bromide	3.115	0.878	5.05	97.591	BMB
5	11.32	nitrate	3.392	1.121	6.45	97.358	BMB
6	16.67	sulfate	6.683	3.734	21.49	209.980	BMB
Total:			79.361	17.373	100.00	895.334	

MS2

Perchlorate/Integration

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

ALAB : 00088

CONFIDENTIAL

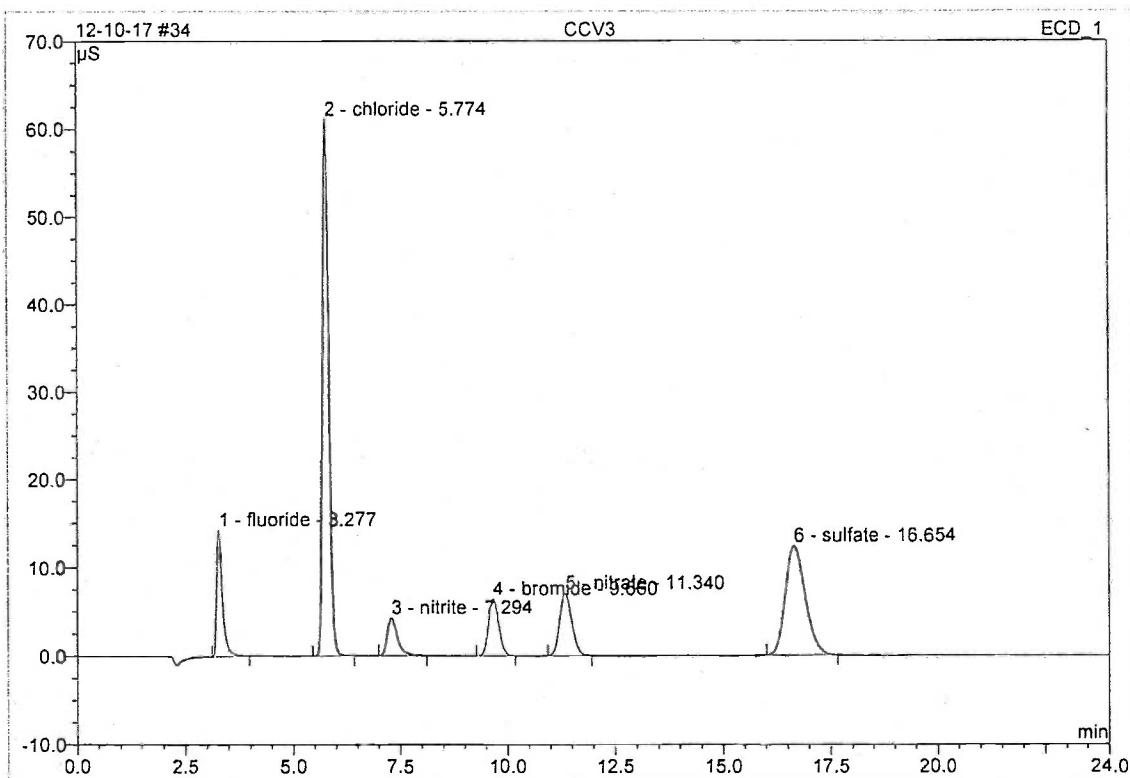
LMC-PET-00001981

34 CCV3

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

Sample Name: CCV3
 Vial Number: 664
 Sample Type: unknown
 Control Program: anion_program
 Quantif. Method: PERCHLORATE METHOD
 Recording Time: 10/17/2012 18:58
 Run Time (min): 24.00

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	14.236	2.216	9.05	7.546	BMB
2	5.77	chloride	61.054	10.343	42.26	38.743	BMB
3	7.29	nitrite	4.251	1.156	4.72	9.986	BMB
4	9.66	bromide	6.399	1.800	7.36	19.411	BMB
5	11.34	nitrate	7.014	2.325	9.50	19.436	BMB
6	16.65	sulfate	12.284	6.636	27.11	36.188	BMB
Total:			105.238	24.477	100.00	131.309	

Perchlorate/Integration

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

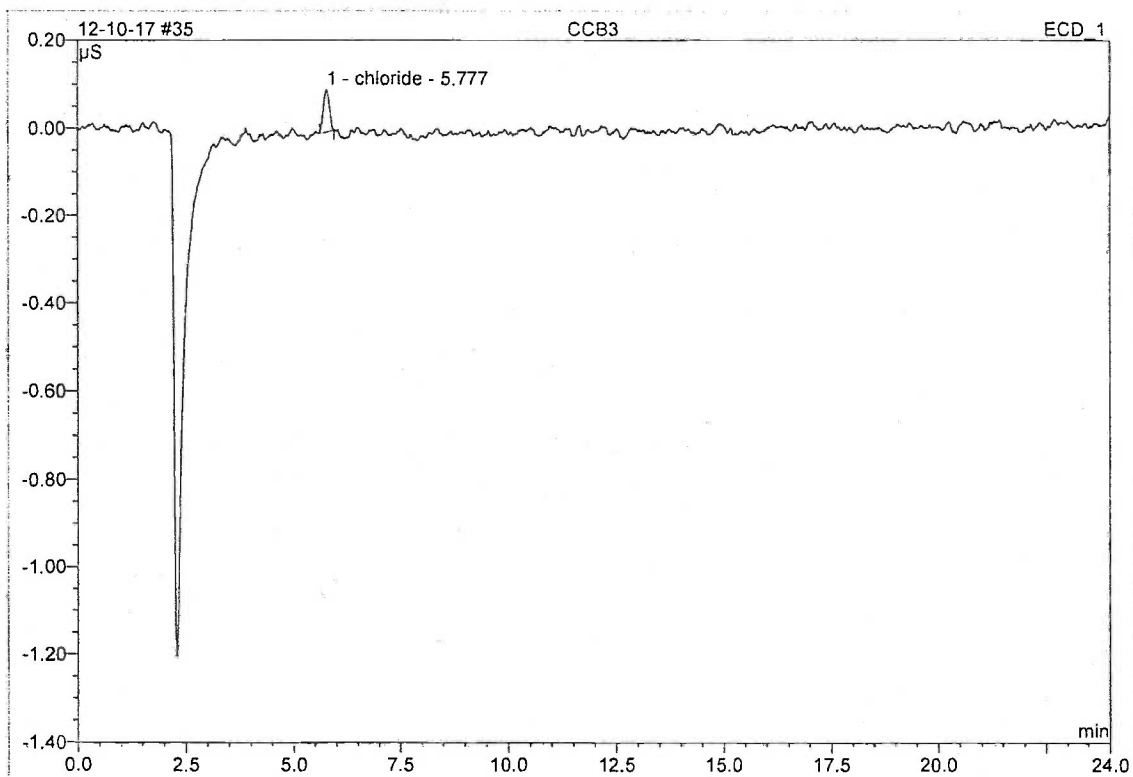
ALAB: 00089

CONFIDENTIAL

LMC-PET-00001982

35 CCB3

Sample Name:	CCB3	Injection Volume:	20.0
Vial Number:	665	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:	10/17/2012 19:25	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	5.78	chloride	0.098	0.016	100.00	0.065	BMB
Total:			0.098	0.016	100.00	0.065	

Perchlorate/Integration

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

ALAB : 00090

CONFIDENTIAL

LMC-PET-00001983

EPA 6010B/200.7

ICP Metals

ALAB : 00091

CONFIDENTIAL

LMC-PET-00001984

Sequence No.: 79
 Sample ID: 312205-002
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 93
 Date Collected: 10/17/2012 3:22:09 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 312205-002

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	277.1	0.0021 mg/L	0.00226	0.0021 mg/L	0.00226	105.99%
Al 308.215	442.0	0.0129 mg/L	0.01396	0.0129 mg/L	0.01396	108.27%
As 188.979	127.2	0.0230 mg/L	0.00748	0.0230 mg/L	0.00748	32.56%
B 249.677	11362.8	0.1285 mg/L	0.00041	0.1285 mg/L	0.00041	0.32%
Ba 233.527	15292.4	0.1485 mg/L	0.00433	0.1485 mg/L	0.00433	2.92%
Be 313.107	1908.3	0.0009 mg/L	0.00013	0.0009 mg/L	0.00013	14.59%
Bi 223.061	18.1	0.0084 mg/L	0.00123	0.0084 mg/L	0.00123	14.78%
Bi 190.171	20.4	0.0252 mg/L	0.01789	0.0252 mg/L	0.01789	70.98%
Ca 315.887	245216.7	121.0 mg/L	1.19	121.0 mg/L	1.19	0.99%
Ca 317.933	290168.3	121.1 mg/L	1.98	121.1 mg/L	1.98	1.64%
Cd 214.440	-160.1	-0.0036 mg/L	0.00017	-0.0036 mg/L	0.00017	4.59%
Co 228.616	30.2	0.0012 mg/L	0.00002	0.0012 mg/L	0.00002	2.10%
Cr 267.716	213.3	0.0055 mg/L	0.00012	0.0055 mg/L	0.00012	2.26%
Cu 324.752	942.4	0.0032 mg/L	0.00139	0.0032 mg/L	0.00139	44.07%
Fe 238.204	1037.2	0.0263 mg/L	0.00032	0.0263 mg/L	0.00032	1.23%
Fe 273.955	428.9	0.0258 mg/L	0.00064	0.0258 mg/L	0.00064	2.47%
K 766.490	16302.0	6.172 mg/L	0.3001	6.172 mg/L	0.3001	4.86%
Mg 279.077	7998.8	35.74 mg/L	0.565	35.74 mg/L	0.565	1.58%
Mn 257.610	594.1	0.0014 mg/L	0.00005	0.0014 mg/L	0.00005	3.58%
Mo 202.031	50.3	0.0113 mg/L	0.00013	0.0113 mg/L	0.00013	1.19%
Na 589.592	253159.0	42.62 mg/L	0.224	42.62 mg/L	0.224	0.53%
Na 330.237	322.3	44.56 mg/L	0.708	44.56 mg/L	0.708	1.59%
Ni 231.604	34.9	0.0019 mg/L	0.00036	0.0019 mg/L	0.00036	19.23%
Pb 220.353	58.8	0.0030 mg/L	0.00044	0.0030 mg/L	0.00044	14.55%
Sb 206.836	-12.4	-0.0113 mg/L	0.00273	-0.0113 mg/L	0.00273	24.18%
Se 196.026	-8.8	-0.0011 mg/L	0.00104	-0.0011 mg/L	0.00104	92.52%
Sn 189.927	-42.5	-0.0138 mg/L	0.00143	-0.0138 mg/L	0.00143	10.33%
Sr 407.771	349636.1	0.8128 mg/L	0.00092	0.8128 mg/L	0.00092	0.11%
Sr 421.552	196403.9	0.8169 mg/L	0.00401	0.8169 mg/L	0.00401	0.49%
Ti 334.940	2565.8	0.0070 mg/L	0.00148	0.0070 mg/L	0.00148	21.26%
Tl 190.801	-38.0	-0.0069 mg/L	0.00292	-0.0069 mg/L	0.00292	42.54%
V 290.880	220.4	0.0014 mg/L	0.00313	0.0014 mg/L	0.00313	219.99%
W 207.912	12.2	0.0049 mg/L	0.00117	0.0049 mg/L	0.00117	23.83%
Y 371.029	1410.9				173.29	12.28%
Zn 206.200	66.4	0.0045 mg/L	0.00027	0.0045 mg/L	0.00027	6.02%
P 213.617	40.4	0.0297 mg/L	0.00071	0.0297 mg/L	0.00071	2.38%
Si 251.611	551071.4	14.05 mg/L	0.536	14.05 mg/L	0.536	3.81%
Li 670.784	-32.8	-0.0005 mg/L	0.00093	-0.0005 mg/L	0.00093	187.07%
Li 610.362	-3038.6	-0.4400 mg/L	0.06636	-0.4400 mg/L	0.06636	15.08%
S 181.975	5988.1	24.60 mg/L	0.089	24.60 mg/L	0.089	0.36%

ALAB: 00092

Sequence No.: 80

Sample ID: MS

Analyst: nina

Initial Sample Wt:

Dilution:

Autosampler Location: 94

Date Collected: 10/17/2012 3:24:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: MS

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	71938.3	0.5540 mg/L		0.01696	0.5540 mg/L	0.01696	3.06%
Al 308.215	37024.8	1.080 mg/L		0.0422	1.080 mg/L	0.0422	3.91%
As 188.979	6218.5	1.123 mg/L		0.0189	1.123 mg/L	0.0189	1.69%
B 249.677	113101.7	1.279 mg/L		0.0380	1.279 mg/L	0.0380	2.97%
Ba 233.527	133523.8	1.296 mg/L		0.0308	1.296 mg/L	0.0308	2.37%
Be 313.107	2510891.9	1.134 mg/L		0.0121	1.134 mg/L	0.0121	1.07%
Bi 223.061	-53.7	-0.0247 mg/L		0.00067	-0.0247 mg/L	0.00067	2.70%
Bi 190.171	21.1	0.0260 mg/L		0.00526	0.0260 mg/L	0.00526	20.21%
Ca 315.887	260283.1	128.4 mg/L		5.34	128.4 mg/L	5.34	4.16%
Ca 317.933	309159.0	129.0 mg/L		5.21	129.0 mg/L	5.21	4.04%
Cd 214.440	46701.3	1.054 mg/L		0.0317	1.054 mg/L	0.0317	3.01%
Co 228.616	26643.0	1.043 mg/L		0.0315	1.043 mg/L	0.0315	3.01%
Cr 267.716	43391.0	1.124 mg/L		0.0250	1.124 mg/L	0.0250	2.23%
Cu 324.752	316102.5	1.061 mg/L		0.0399	1.061 mg/L	0.0399	3.76%
Fe 238.204	44770.6	1.136 mg/L		0.0250	1.136 mg/L	0.0250	2.20%
Fe 273.955	18455.2	1.108 mg/L		0.0255	1.108 mg/L	0.0255	2.30%
K 766.490	49438.7	18.72 mg/L		0.746	18.72 mg/L	0.746	3.99%
Mg 279.077	8485.2	37.92 mg/L		0.199	37.92 mg/L	0.199	0.53%
Mn 257.610	476972.7	1.110 mg/L		0.0051	1.110 mg/L	0.0051	0.46%
Mo 202.031	4467.6	1.002 mg/L		0.0088	1.002 mg/L	0.0088	0.88%
Na 589.592	277399.4	46.70 mg/L		2.244	46.70 mg/L	2.244	4.81%
Na 330.237	318.8	44.08 mg/L		0.341	44.08 mg/L	0.341	0.77%
Ni 231.604	19472.5	1.039 mg/L		0.0209	1.039 mg/L	0.0209	2.01%
Pb 220.353	19885.5	1.011 mg/L		0.0034	1.011 mg/L	0.0034	0.33%
Sb 206.836	1105.5	1.007 mg/L		0.0253	1.007 mg/L	0.0253	2.51%
Se 196.026	8228.3	1.050 mg/L		0.0239	1.050 mg/L	0.0239	2.28%
Sn 189.927	-58.2	-0.0189 mg/L		0.00174	-0.0189 mg/L	0.00174	9.21%
Sr 407.771	812466.8	1.889 mg/L		0.0945	1.889 mg/L	0.0945	5.00%
Sr 421.552	457725.1	1.904 mg/L		0.0970	1.904 mg/L	0.0970	5.09%
Ti 334.940	427946.3	1.163 mg/L		0.0140	1.163 mg/L	0.0140	1.20%
Tl 190.801	5639.8	1.020 mg/L		0.0096	1.020 mg/L	0.0096	0.94%
V 290.880	172211.8	1.115 mg/L		0.0318	1.115 mg/L	0.0318	2.85%
W 207.912	31.6	0.0127 mg/L		0.00122	0.0127 mg/L	0.00122	9.56%
Y 371.029	1701.6					59.72	3.51%
Zn 206.200	15741.9	1.070 mg/L		0.0386	1.070 mg/L	0.0386	3.61%
P 213.617	-1775.9	-1.306 mg/L		0.0318	-1.306 mg/L	0.0318	2.43%
Si 251.611	629899.1	16.06 mg/L		0.016	16.06 mg/L	0.016	0.10%
Li 670.784	72856.0	1.111 mg/L		0.0525	1.111 mg/L	0.0525	4.73%
Li 610.362	6317.5	0.9149 mg/L		0.12157	0.9149 mg/L	0.12157	13.29%
S 181.975	6196.8	25.46 mg/L		0.493	25.46 mg/L	0.493	1.94%

ALAB: 00093

Sequence No.: 81

Sample ID: MSD

Analyst: nina

Initial Sample Wt:

Dilution:

Autosampler Location: 95

Date Collected: 10/17/2012 3:27:22 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	69435.9	0.5348 mg/L	0.02712	0.5348 mg/L	0.02712	5.07%
Al 308.215	35174.2	1.026 mg/L	0.0534	1.026 mg/L	0.0534	5.20%
As 188.979	6053.5	1.093 mg/L	0.0057	1.093 mg/L	0.0057	0.52%
B 249.677	108326.1	1.225 mg/L	0.0789	1.225 mg/L	0.0789	6.44%
Ba 233.527	129671.1	1.259 mg/L	0.0742	1.259 mg/L	0.0742	5.90%
Be 313.107	2367252.1	1.070 mg/L	0.0429	1.070 mg/L	0.0429	4.01%
Bi 223.061	-41.7	-0.0192 mg/L	0.00104	-0.0192 mg/L	0.00104	5.41%
Bi 190.171	22.6	0.0279 mg/L	0.01343	0.0279 mg/L	0.01343	48.07%
Ca 315.887	267757.3	132.1 mg/L	2.22	132.1 mg/L	2.22	1.68%
Ca 317.933	317995.4	132.7 mg/L	2.48	132.7 mg/L	2.48	1.87%
Cd 214.440	44792.9	1.011 mg/L	0.0650	1.011 mg/L	0.0650	6.43%
Co 228.616	25653.1	1.005 mg/L	0.0515	1.005 mg/L	0.0515	5.12%
Cr 267.716	42630.1	1.104 mg/L	0.0562	1.104 mg/L	0.0562	5.09%
Cu 324.752	303464.5	1.019 mg/L	0.0594	1.019 mg/L	0.0594	5.83%
Fe 238.204	43169.0	1.095 mg/L	0.0672	1.095 mg/L	0.0672	6.14%
Fe 273.955	17764.1	1.067 mg/L	0.0648	1.067 mg/L	0.0648	6.08%
K 766.490	51027.2	19.32 mg/L	0.406	19.32 mg/L	0.406	2.10%
Mg 279.077	8380.0	37.45 mg/L	0.236	37.45 mg/L	0.236	0.63%
Mn 257.610	449183.3	1.046 mg/L	0.0459	1.046 mg/L	0.0459	4.39%
Mo 202.031	4393.3	0.9850 mg/L	0.00836	0.9850 mg/L	0.00836	0.85%
Na 589.592	284001.1	47.81 mg/L	0.519	47.81 mg/L	0.519	1.08%
Na 330.237	306.8	42.42 mg/L	0.413	42.42 mg/L	0.413	0.97%
Ni 231.604	18799.5	1.003 mg/L	0.0518	1.003 mg/L	0.0518	5.17%
Pb 220.353	19481.1	0.9908 mg/L	0.00652	0.9908 mg/L	0.00652	0.66%
Sb 206.836	1098.5	1.000 mg/L	0.0021	1.000 mg/L	0.0021	0.21%
Se 196.026	7892.7	1.008 mg/L	0.0082	1.008 mg/L	0.0082	0.82%
Sn 189.927	-51.0	-0.0166 mg/L	0.00232	-0.0166 mg/L	0.00232	13.96%
Sr 407.771	834475.7	1.940 mg/L	0.0232	1.940 mg/L	0.0232	1.20%
Sr 421.552	470903.6	1.959 mg/L	0.0251	1.959 mg/L	0.0251	1.28%
Ti 334.940	403935.3	1.097 mg/L	0.0441	1.097 mg/L	0.0441	4.02%
Tl 190.801	5589.0	1.011 mg/L	0.0149	1.011 mg/L	0.0149	1.47%
V 290.880	167090.7	1.082 mg/L	0.0617	1.082 mg/L	0.0617	5.71%
W 207.912	29.5	0.0119 mg/L	0.00048	0.0119 mg/L	0.00048	4.05%
Y 371.029	1478.3				199.23	13.48%
Zn 206.200	15198.0	1.033 mg/L	0.0623	1.033 mg/L	0.0623	6.04%
P 213.617	-1748.5	-1.286 mg/L	0.0044	-1.286 mg/L	0.0044	0.34%
Si 251.611	586427.0	14.95 mg/L	0.735	14.95 mg/L	0.735	4.92%
Li 670.784	74031.7	1.129 mg/L	0.0015	1.129 mg/L	0.0015	0.14%
Li 610.362	6103.0	0.8838 mg/L	0.10675	0.8838 mg/L	0.10675	12.08%
S 181.975	6025.0	24.75 mg/L	0.186	24.75 mg/L	0.186	0.75%

ALAB: 00094

Sequence No.: 82
 Sample ID: 312205-004
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 96
 Date Collected: 10/17/2012 3:29:59 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 312205-004

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	27.7	0.0002 mg/L	0.00144	0.0002 mg/L	0.00144	672.79%
Al 308.215	259.6	0.0076 mg/L	0.00736	0.0076 mg/L	0.00736	97.15%
As 188.979	69.4	0.0125 mg/L	0.00295	0.0125 mg/L	0.00295	23.54%
B 249.677	10347.0	0.1170 mg/L	0.00026	0.1170 mg/L	0.00026	0.22%
Ba 233.527	14075.6	0.1366 mg/L	0.00224	0.1366 mg/L	0.00224	1.64%
Be 313.107	1076.8	0.0005 mg/L	0.00058	0.0005 mg/L	0.00058	120.06%
Bi 223.061	8.1	0.0037 mg/L	0.00059	0.0037 mg/L	0.00059	15.91%
Bi 190.171	8.9	0.0110 mg/L	0.00788	0.0110 mg/L	0.00788	71.76%
Ca 315.887	237788.6	117.3 mg/L	8.75	117.3 mg/L	8.75	7.46%
Ca 317.933	281240.4	117.4 mg/L	7.72	117.4 mg/L	7.72	6.57%
Cd 214.440	-170.8	-0.0039 mg/L	0.00006	-0.0039 mg/L	0.00006	1.53%
Co 228.616	24.7	0.0010 mg/L	0.00036	0.0010 mg/L	0.00036	37.33%
Cr 267.716	199.9	0.0052 mg/L	0.00016	0.0052 mg/L	0.00016	3.04%
Cu 324.752	418.7	0.0014 mg/L	0.00075	0.0014 mg/L	0.00075	53.20%
Fe 238.204	323.4	0.0082 mg/L	0.00019	0.0082 mg/L	0.00019	2.36%
Fe 273.955	146.8	0.0088 mg/L	0.00022	0.0088 mg/L	0.00022	2.48%
K 766.490	16651.1	6.304 mg/L	0.4322	6.304 mg/L	0.4322	6.85%
Mg 279.077	7375.1	32.96 mg/L	0.322	32.96 mg/L	0.322	0.98%
Mn 257.610	383.2	0.0009 mg/L	0.00003	0.0009 mg/L	0.00003	3.00%
Mo 202.031	41.7	0.0094 mg/L	0.00057	0.0094 mg/L	0.00057	6.05%
Na 589.592	258847.9	43.57 mg/L	2.546	43.57 mg/L	2.546	5.84%
Na 330.237	321.2	44.42 mg/L	0.988	44.42 mg/L	0.988	2.22%
Ni 231.604	6.5	0.0003 mg/L	0.00003	0.0003 mg/L	0.00003	8.87%
Pb 220.353	124.4	0.0063 mg/L	0.00115	0.0063 mg/L	0.00115	18.24%
Sb 206.836	-18.6	-0.0169 mg/L	0.00697	-0.0169 mg/L	0.00697	41.19%
Se 196.026	-56.4	-0.0072 mg/L	0.00077	-0.0072 mg/L	0.00077	10.68%
Sn 189.927	-40.4	-0.0131 mg/L	0.00211	-0.0131 mg/L	0.00211	16.07%
Sr 407.771	347029.0	0.8068 mg/L	0.04181	0.8068 mg/L	0.04181	5.18%
Sr 421.552	195916.5	0.8149 mg/L	0.04244	0.8149 mg/L	0.04244	5.21%
Ti 334.940	2542.0	0.0069 mg/L	0.00033	0.0069 mg/L	0.00033	4.71%
Tl 190.801	-17.2	-0.0031 mg/L	0.00594	-0.0031 mg/L	0.00594	190.61%
V 290.880	-97.5	-0.0006 mg/L	0.00038	-0.0006 mg/L	0.00038	59.43%
W 207.912	11.3	0.0046 mg/L	0.00159	0.0046 mg/L	0.00159	34.79%
Y 371.029	1530.8				148.44	9.70%
Zn 206.200	44.1	0.0030 mg/L	0.00021	0.0030 mg/L	0.00021	7.01%
P 213.617	43.1	0.0317 mg/L	0.01157	0.0317 mg/L	0.01157	36.52%
Si 251.611	521074.5	13.28 mg/L	0.554	13.28 mg/L	0.554	4.17%
Li 670.784	1335.5	0.0204 mg/L	0.00638	0.0204 mg/L	0.00638	31.35%
Li 610.362	-1889.2	-0.2736 mg/L	0.00019	-0.2736 mg/L	0.00019	0.07%
S 181.975	5892.7	24.21 mg/L	0.036	24.21 mg/L	0.036	0.15%

ALAB: 000055

Sequence No.: 83
 Sample ID: 312205-005
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 97
 Date Collected: 10/17/2012 3:32:35 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 312205-005

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	130.8	0.0010 mg/L	0.00046	0.0010 mg/L	0.00046	45.62%
Al 308.215	854.4	0.0249 mg/L	0.00606	0.0249 mg/L	0.00606	24.33%
As 188.979	97.0	0.0175 mg/L	0.00682	0.0175 mg/L	0.00682	38.95%
B 249.677	10401.9	0.1177 mg/L	0.00008	0.1177 mg/L	0.00008	0.07%
Ba 233.527	14823.6	0.1439 mg/L	0.00305	0.1439 mg/L	0.00305	2.12%
Be 313.107	-114.2	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	44.13%
Bi 223.061	16.9	0.0078 mg/L	0.00032	0.0078 mg/L	0.00032	4.05%
Bi 190.171	11.9	0.0147 mg/L	0.00325	0.0147 mg/L	0.00325	22.12%
Ca 315.887	257717.2	127.2 mg/L	5.48	127.2 mg/L	5.48	4.31%
Ca 317.933	305869.2	127.7 mg/L	5.15	127.7 mg/L	5.15	4.03%
Cd 214.440	-192.6	-0.0043 mg/L	0.00003	-0.0043 mg/L	0.00003	0.74%
Co 228.616	23.3	0.0009 mg/L	0.00030	0.0009 mg/L	0.00030	32.68%
Cr 267.716	187.5	0.0049 mg/L	0.00019	0.0049 mg/L	0.00019	3.96%
Cu 324.752	548.1	0.0018 mg/L	0.00009	0.0018 mg/L	0.00009	5.00%
Fe 238.204	621.7	0.0158 mg/L	0.00028	0.0158 mg/L	0.00028	1.79%
Fe 273.955	274.4	0.0165 mg/L	0.00032	0.0165 mg/L	0.00032	1.96%
K 766.490	17559.5	6.648 mg/L	0.0987	6.648 mg/L	0.0987	1.48%
Mg 279.077	7443.2	33.26 mg/L	0.000	33.26 mg/L	0.000	0.00%
Mn 257.610	338.0	0.0008 mg/L	0.00001	0.0008 mg/L	0.00001	1.13%
Mo 202.031	36.8	0.0083 mg/L	0.00015	0.0083 mg/L	0.00015	1.84%
Na 589.592	278548.4	46.89 mg/L	2.111	46.89 mg/L	2.111	4.50%
Na 330.237	324.3	44.85 mg/L	0.165	44.85 mg/L	0.165	0.37%
Ni 231.604	4.2	0.0002 mg/L	0.00024	0.0002 mg/L	0.00024	107.60%
Pb 220.353	34.4	0.0017 mg/L	0.00460	0.0017 mg/L	0.00460	262.89%
Sb 206.836	-16.4	-0.0149 mg/L	0.00201	-0.0149 mg/L	0.00201	13.47%
Se 196.026	34.3	0.0044 mg/L	0.01793	0.0044 mg/L	0.01793	409.66%
Sn 189.927	-46.5	-0.0151 mg/L	0.00293	-0.0151 mg/L	0.00293	19.42%
Sr 407.771	373403.7	0.8681 mg/L	0.03660	0.8681 mg/L	0.03660	4.22%
Sr 421.552	211407.4	0.8793 mg/L	0.04569	0.8793 mg/L	0.04569	5.20%
Ti 334.940	2508.1	0.0068 mg/L	0.00012	0.0068 mg/L	0.00012	1.76%
Tl 190.801	-50.3	-0.0091 mg/L	0.00288	-0.0091 mg/L	0.00288	31.66%
V 290.880	116.2	0.0008 mg/L	0.00075	0.0008 mg/L	0.00075	100.46%
W 207.912	10.5	0.0042 mg/L	0.00243	0.0042 mg/L	0.00243	57.44%
Y 371.029	1636.5				32.35	1.98%
Zn 206.200	50.7	0.0034 mg/L	0.00003	0.0034 mg/L	0.00003	0.87%
P 213.617	45.7	0.0336 mg/L	0.00057	0.0336 mg/L	0.00057	1.68%
Si 251.611	542665.0	13.83 mg/L	0.262	13.83 mg/L	0.262	1.89%
Li 670.784	288.0	0.0044 mg/L	0.00720	0.0044 mg/L	0.00720	164.04%
Li 610.362	-2318.7	-0.3358 mg/L	0.03103	-0.3358 mg/L	0.03103	9.24%
S 181.975	6107.2	25.09 mg/L	0.037	25.09 mg/L	0.037	0.15%

ALAB: 00056

Sequence No.: 84
 Sample ID: 312205-006
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 98
 Date Collected: 10/17/2012 3:35:13 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 312205-006

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-31.4	-0.0002 mg/L	0.00088	-0.0002 mg/L	0.00088	363.05%
Al 308.215	257.2	0.0075 mg/L	0.00185	0.0075 mg/L	0.00185	24.65%
As 188.979	112.7	0.0204 mg/L	0.00171	0.0204 mg/L	0.00171	8.41%
B 249.677	12103.4	0.1369 mg/L	0.00107	0.1369 mg/L	0.00107	0.78%
Ba 233.527	17076.2	0.1658 mg/L	0.00685	0.1658 mg/L	0.00685	4.13%
Be 313.107	-117.0	-0.0001 mg/L	0.00010	-0.0001 mg/L	0.00010	179.97%
Bi 223.061	23.1	0.0107 mg/L	0.00432	0.0107 mg/L	0.00432	40.52%
Bi 190.171	11.4	0.0141 mg/L	0.00996	0.0141 mg/L	0.00996	70.86%
Ca 315.887	276670.5	136.5 mg/L	1.18	136.5 mg/L	1.18	0.86%
Ca 317.933	327832.0	136.8 mg/L	1.48	136.8 mg/L	1.48	1.08%
Cd 214.440	-202.0	-0.0046 mg/L	0.00002	-0.0046 mg/L	0.00002	0.38%
Co 228.616	17.4	0.0007 mg/L	0.00029	0.0007 mg/L	0.00029	43.12%
Cr 267.716	170.2	0.0044 mg/L	0.00021	0.0044 mg/L	0.00021	4.76%
Cu 324.752	373.8	0.0013 mg/L	0.00237	0.0013 mg/L	0.00237	188.52%
Fe 238.204	4434.3	0.1125 mg/L	0.00057	0.1125 mg/L	0.00057	0.51%
Fe 273.955	1848.7	0.1110 mg/L	0.00105	0.1110 mg/L	0.00105	0.95%
K 766.490	18664.0	7.066 mg/L	0.1680	7.066 mg/L	0.1680	2.38%
Mg 279.077	8749.5	39.10 mg/L	0.683	39.10 mg/L	0.683	1.75%
Mn 257.610	2235.5	0.0052 mg/L	0.00000	0.0052 mg/L	0.00000	0.07%
Mo 202.031	43.3	0.0097 mg/L	0.00097	0.0097 mg/L	0.00097	9.97%
Na 589.592	271565.9	45.71 mg/L	0.320	45.71 mg/L	0.320	0.70%
Na 330.237	327.9	45.34 mg/L	1.163	45.34 mg/L	1.163	2.56%
Ni 231.604	33.1	0.0018 mg/L	0.00025	0.0018 mg/L	0.00025	14.24%
Pb 220.353	117.2	0.0060 mg/L	0.00043	0.0060 mg/L	0.00043	7.23%
Sb 206.836	-26.3	-0.0240 mg/L	0.00584	-0.0240 mg/L	0.00584	24.36%
Se 196.026	-144.8	-0.0185 mg/L	0.00008	-0.0185 mg/L	0.00008	0.45%
Sn 189.927	-53.2	-0.0173 mg/L	0.00015	-0.0173 mg/L	0.00015	0.89%
Sr 407.771	381993.1	0.8880 mg/L	0.00761	0.8880 mg/L	0.00761	0.86%
Sr 421.552	215052.3	0.8945 mg/L	0.00700	0.8945 mg/L	0.00700	0.78%
Ti 334.940	2504.4	0.0068 mg/L	0.00069	0.0068 mg/L	0.00069	10.14%
Tl 190.801	-76.7	-0.0139 mg/L	0.00294	-0.0139 mg/L	0.00294	21.19%
V 290.880	-243.5	-0.0016 mg/L	0.00136	-0.0016 mg/L	0.00136	86.04%
W 207.912	20.3	0.0082 mg/L	0.00192	0.0082 mg/L	0.00192	23.43%
Y 371.029	1661.1				232.47	13.99%
Zn 206.200	6540.3	0.4444 mg/L	0.00147	0.4444 mg/L	0.00147	0.33%
P 213.617	40.9	0.0301 mg/L	0.00497	0.0301 mg/L	0.00497	16.53%
Si 251.611	549142.3	14.00 mg/L	0.448	14.00 mg/L	0.448	3.20%
Li 670.784	500.7	0.0076 mg/L	0.00312	0.0076 mg/L	0.00312	40.82%
Li 610.362	-1849.8	-0.2679 mg/L	0.03096	-0.2679 mg/L	0.03096	11.56%
S 181.975	6624.0	27.21 mg/L	0.202	27.21 mg/L	0.202	0.74%

ALAB: 00097

Sequence No.: 85
 Sample ID: 312205-007
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 99
 Date Collected: 10/17/2012 3:37:50 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 312205-007

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc.	Units		Conc.	Units	
Ag 328.068	-56.3	-0.0004	mg/L	0.00039	-0.0004	mg/L	89.01%
Al 308.215	310.4	0.0091	mg/L	0.00200	0.0091	mg/L	0.00200
As 188.979	20.0	0.0036	mg/L	0.00132	0.0036	mg/L	0.00132
B 249.677	-3789.7	-0.0429	mg/L	0.00016	-0.0429	mg/L	0.00016
Ba 233.527	18.4	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004
Be 313.107	-9.8	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005
Bi 223.061	3.8	0.0017	mg/L	0.00223	0.0017	mg/L	0.00223
Bi 190.171	1.0	0.0012	mg/L	0.00105	0.0012	mg/L	0.00105
Ca 315.887	311.2	0.1535	mg/L	0.02289	0.1535	mg/L	0.02289
Ca 317.933	367.1	0.1532	mg/L	0.02831	0.1532	mg/L	0.02831
Cd 214.440	-14.3	-0.0003	mg/L	0.00005	-0.0003	mg/L	0.00005
Co 228.616	5.1	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007
Cr 267.716	54.5	0.0014	mg/L	0.00009	0.0014	mg/L	0.00009
Cu 324.752	238.3	0.0008	mg/L	0.00010	0.0008	mg/L	0.00010
Fe 238.204	194.4	0.0049	mg/L	0.00029	0.0049	mg/L	0.00029
Fe 273.955	153.3	0.0092	mg/L	0.00034	0.0092	mg/L	0.00034
K 766.490	329.6	0.1248	mg/L	0.00904	0.1248	mg/L	0.00904
Mg 279.077	9.4	0.0422	mg/L	0.00448	0.0422	mg/L	0.00448
Mn 257.610	229.1	0.0005	mg/L	0.00001	0.0005	mg/L	0.00001
Mo 202.031	-0.9	-0.0002	mg/L	0.00039	-0.0002	mg/L	0.00039
Na 589.592	922.2	0.1552	mg/L	0.02598	0.1552	mg/L	0.02598
Na 330.237	2.6	0.3534	mg/L	0.02729	0.3534	mg/L	0.02729
Ni 231.604	3.8	0.0002	mg/L	0.00013	0.0002	mg/L	0.00013
Pb 220.353	50.5	0.0026	mg/L	0.00001	0.0026	mg/L	0.00001
Sb 206.836	-5.6	-0.0051	mg/L	0.00377	-0.0051	mg/L	0.00377
Se 196.026	-29.6	-0.0038	mg/L	0.01315	-0.0038	mg/L	0.01315
Sn 189.927	61.9	0.0201	mg/L	0.00172	0.0201	mg/L	0.00172
Sr 407.771	464.5	0.0011	mg/L	0.00020	0.0011	mg/L	0.00020
Sr 421.552	277.8	0.0012	mg/L	0.00027	0.0012	mg/L	0.00027
Ti 334.940	-42.0	-0.0001	mg/L	0.00005	-0.0001	mg/L	0.00005
Tl 190.801	1.7	0.0003	mg/L	0.00057	0.0003	mg/L	0.00057
V 290.880	170.1	0.0011	mg/L	0.00061	0.0011	mg/L	0.00061
W 207.912	-3.5	-0.0014	mg/L	0.00054	-0.0014	mg/L	0.00054
Y 371.029	1601.6						76.81
Zn 206.200	96.0	0.0065	mg/L	0.00040	0.0065	mg/L	0.00040
P 213.617	2.3	0.0017	mg/L	0.00004	0.0017	mg/L	0.00004
Si 251.611	611.8	0.0156	mg/L	0.00121	0.0156	mg/L	0.00121
Li 670.784	360.0	0.0055	mg/L	0.00097	0.0055	mg/L	0.00097
Li 610.362	199.2	0.0288	mg/L	0.02212	0.0288	mg/L	0.02212
S 181.975	16.0	0.0656	mg/L	0.01253	0.0656	mg/L	0.01253

ALAB: 00098

Associated Labs QCBatch BenchSheet

QCBatchID QC1130594

Created Date: 10/17/2012 13:32
Created By: melha
Matrix: Water

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

Test: 6010 Dissolved Metals
Method: EPA 6010B
Analysis Date: 10/17/2012 00:00
Analyst:
Analyst:

Seq #	SampleID	QC #	Customer SampleID	QC Source	Site	Spk	Int	Final	Extraction	Comments
					Added	Added	Wt/Vol	Vol	Date	Time
0	Method Blank	1					25 uL	25 uL		10/17/12 - 7:00 - 12:30 pm
1	LCS	1								
2	312205-002				C2	dear				
3	MS	1								
4	MSD	1					312205-002			
5	312205-004									
6	312205-005									
7	312205-006									
8	312205-007									

Initial Call STD: Ce(210081119)_Sep2015, Mg(b8095018-1A)Sep20
Calib Check STD: Sn(1115117)_Jan2013, W(1103408)_Jan2013
Internal STD: K(210125007)-Dec2015, Na(211025031)_Feb2016
Surrogate STD: Bi(1101109)_Jan2013, Si(1102515)_Jan2013
LCS STD: QC2(11201016)-Feb.2013, QC7(1204808)Feb.201
MS STD: 50PPM(6-15-12) 0.5 uL of 50 ppm

Solvent Manufacturer and Lot:
Sand Manufacturer and Lot:
Na2SO4 Manufacturer and Lot:
Surrogate Lot:
Spike Lot:
Prep By Signature:
Prep By Signature:

112 # 44060
#103 # 11240

Associated Labs QCBatch BenchSheet

QC1130594

10/17/2012 13:32

metha
Water

PL APP

Instrument:
PrepMethod:
PrepDate:
PrepBy:

AAICP (group)
EPA 3010A/Filtered
metha

Test:
Method:
Analysis Date:
Analyst:

6010 Dissolved Metals
EPA 6010B
10/17/2012 00:00

Seq #	Sample ID	QC #	Customer Sample ID	QC Source	Sur. Added	Spl. Added	Inj. Vol.	Final Vol.	Extraction Date	Time	Comments
0	Method Blank	1					25 µl	25 µl			10/17/12 - 7:00 - 1230 pm
1	LCS	1									
2#8	312205-002		MW-8		<2	clear					
3 v	MS	1		312205-002							
4 x	MSD	1		312205-002							
5 #7	312205-004		MW-5								
6 #5	312205-005		MW-5-DUP								
7 #7	312205-006		B-6-CW16								
8 #7	312205-007		EB101612 Equip Blank								

InitialCallSiteID	Ca(210081119)_Sep2015, Mg(b8095018-1A)Sep20
CalibCheckSiteID	Sn(11151117)_Jan2013, W(1103408)_Jan2013
InternalSiteID	K(210125007)-Dec2015, Na(211025031)_Feb2016
SurrogateSiteID	Bi(1101109)_Jan2013, Si(1102515)_Jan2013
LCSSiteID	QC2(11201016)-Feb.2013, QC7(1204808)Feb.201
MSSiteID	50PPM(6-15-12) 0.5 <i>and</i> 0.5 <i>ppm</i>

Sand Manufacturer and Lab
Na₂SO₄ Manufacturer and Lab
Surrogate Lab
Spike Lab
Prep. B. Signature

102 # 411060
103 # 112040

Wednesday, October 17, 2012

Page 1 of 1

Sequence No.: 77
 Sample ID: Method Blank
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 91
 Date Collected: 10/17/2012 3:16:55 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: Method Blank

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-81.3	-0.0006	mg/L	0.00033	-0.0006	mg/L	0.00033 52.01%
Al 308.215	-136.7	-0.0040	mg/L	0.00140	-0.0040	mg/L	0.00140 35.06%
As 188.979	18.8	0.0034	mg/L	0.00028	0.0034	mg/L	0.00028 8.20%
B 249.677	-4456.4	-0.0504	mg/L	0.00021	-0.0504	mg/L	0.00021 0.41%
Ba 233.527	10.5	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000 3.83%
Be 313.107	-41.5	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001 48.00%
Bi 223.061	12.3	0.0056	mg/L	0.00423	0.0056	mg/L	0.00423 74.89%
Bi 190.171	2.7	0.0033	mg/L	0.00339	0.0033	mg/L	0.00339 102.99%
Ca 315.887	-17.2	-0.0085	mg/L	0.00066	-0.0085	mg/L	0.00066 7.74%
Ca 317.933	-4.9	-0.0020	mg/L	0.00210	-0.0020	mg/L	0.00210 102.93%
Cd 214.440	-2.7	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000 4.24%
Co 228.616	3.7	0.0001	mg/L	0.00022	0.0001	mg/L	0.00022 149.49%
Cr 267.716	7.6	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004 19.56%
Cu 324.752	-43.9	-0.0001	mg/L	0.00017	-0.0001	mg/L	0.00017 117.66%
Fe 238.204	-42.1	-0.0011	mg/L	0.00012	-0.0011	mg/L	0.00012 10.89%
Fe 273.955	52.8	0.0032	mg/L	0.00022	0.0032	mg/L	0.00022 6.84%
K 766.490	-43.3	-0.0164	mg/L	0.25148	-0.0164	mg/L	0.25148 >999.9%
Mg 279.077	7.6	0.0340	mg/L	0.00975	0.0340	mg/L	0.00975 28.64%
Mn 257.610	-23.5	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001 15.65%
Mo 202.031	-2.1	-0.0005	mg/L	0.00002	-0.0005	mg/L	0.00002 4.07%
Na 589.592	354.0	0.0596	mg/L	0.02399	0.0596	mg/L	0.02399 40.25%
Na 330.237	-5.4	-0.7414	mg/L	0.02222	-0.7414	mg/L	0.02222 3.00%
Ni 231.604	0.4	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005 262.48%
Pb 220.353	3.5	0.0002	mg/L	0.00093	0.0002	mg/L	0.00093 527.39%
Sb 206.836	-9.9	-0.0090	mg/L	0.00055	-0.0090	mg/L	0.00055 6.02%
Se 196.026	-64.6	-0.0082	mg/L	0.00257	-0.0082	mg/L	0.00257 31.15%
Sn 189.927	-0.7	-0.0002	mg/L	0.00020	-0.0002	mg/L	0.00020 94.64%
Sr 407.771	107.8	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003 10.45%
Sr 421.552	81.4	0.0003	mg/L	0.00018	0.0003	mg/L	0.00018 52.20%
Ti 334.940	-97.5	-0.0003	mg/L	0.00023	-0.0003	mg/L	0.00023 86.09%
Tl 190.801	-20.0	-0.0036	mg/L	0.00192	-0.0036	mg/L	0.00192 53.19%
V 290.880	123.4	0.0008	mg/L	0.00054	0.0008	mg/L	0.00054 67.83%
W 207.912	0.0	0.0000	mg/L	0.00042	0.0000	mg/L	0.00042 >999.9%
Y 371.029	1649.1						24.51 1.49%
Zn 206.200	2.9	0.0002	mg/L	0.00055	0.0002	mg/L	0.00055 275.82%
P 213.617	8.0	0.0059	mg/L	0.00479	0.0059	mg/L	0.00479 81.68%
Si 251.611	-55.4	-0.0014	mg/L	0.00066	-0.0014	mg/L	0.00066 46.64%
Li 670.784	417.2	0.0064	mg/L	0.00297	0.0064	mg/L	0.00297 46.72%
Li 610.362	-98.4	-0.0142	mg/L	0.04014	-0.0142	mg/L	0.04014 281.82%
S 181.975	0.2	0.0009	mg/L	0.00188	0.0009	mg/L	0.00188 202.21%

ALAB: 00101

Sequence No.: 78
Sample ID: LCS
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 92
Date Collected: 10/17/2012 3:19:32 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	138967.6	1.070 mg/L	0.0089	1.070 mg/L	0.0089	0.83%
Al 308.215	76222.2	2.223 mg/L	0.0160	2.223 mg/L	0.0160	0.72%
As 188.979	12286.7	2.219 mg/L	0.0414	2.219 mg/L	0.0414	1.86%
B 249.677	188475.4	2.132 mg/L	0.0247	2.132 mg/L	0.0247	1.16%
Ba 233.527	238758.0	2.318 mg/L	0.0077	2.318 mg/L	0.0077	0.33%
Be 313.107	4891605.5	2.210 mg/L	0.0804	2.210 mg/L	0.0804	3.64%
Bi 223.061	-123.7	-0.0569 mg/L	0.00206	-0.0569 mg/L	0.00206	3.62%
Bi 190.171	9.3	0.0115 mg/L	0.00102	0.0115 mg/L	0.00102	8.82%
Ca 315.887	5550.2	2.738 mg/L	0.0293	2.738 mg/L	0.0293	1.07%
Ca 317.933	6591.2	2.751 mg/L	0.0254	2.751 mg/L	0.0254	0.92%
Cd 214.440	96730.1	2.182 mg/L	0.0102	2.182 mg/L	0.0102	0.47%
Co 228.616	57490.4	2.252 mg/L	0.0009	2.252 mg/L	0.0009	0.04%
Cr 267.716	89276.9	2.313 mg/L	0.0102	2.313 mg/L	0.0102	0.44%
Cu 324.752	664688.5	2.231 mg/L	0.0995	2.231 mg/L	0.0995	4.46%
Fe 238.204	91842.1	2.330 mg/L	0.0131	2.330 mg/L	0.0131	0.56%
Fe 273.955	37845.9	2.273 mg/L	0.0207	2.273 mg/L	0.0207	0.91%
K 766.490	67483.6	25.55 mg/L	1.121	25.55 mg/L	1.121	4.39%
Mg 279.077	590.0	2.637 mg/L	0.0372	2.637 mg/L	0.0372	1.41%
Mn 257.610	982183.2	2.286 mg/L	0.0705	2.286 mg/L	0.0705	3.09%
Mo 202.031	9266.6	2.078 mg/L	0.0305	2.078 mg/L	0.0305	1.47%
Na 589.592	16522.2	2.781 mg/L	0.0735	2.781 mg/L	0.0735	2.64%
Na 330.237	-40.9	-5.656 mg/L	0.6259	-5.656 mg/L	0.6259	11.07%
Ni 231.604	42714.0	2.279 mg/L	0.0074	2.279 mg/L	0.0074	0.32%
Pb 220.353	44140.3	2.245 mg/L	0.0599	2.245 mg/L	0.0599	2.67%
Sb 206.836	2321.5	2.114 mg/L	0.0397	2.114 mg/L	0.0397	1.88%
Se 196.026	16548.0	2.112 mg/L	0.0434	2.112 mg/L	0.0434	2.06%
Sn 189.927	29.1	0.0094 mg/L	0.00114	0.0094 mg/L	0.00114	12.07%
Sr 407.771	936183.0	2.176 mg/L	0.0327	2.176 mg/L	0.0327	1.50%
Sr 421.552	526928.4	2.192 mg/L	0.0348	2.192 mg/L	0.0348	1.59%
Ti 334.940	859184.5	2.334 mg/L	0.0889	2.334 mg/L	0.0889	3.81%
Tl 190.801	12491.5	2.259 mg/L	0.0272	2.259 mg/L	0.0272	1.20%
V 290.880	353157.5	2.286 mg/L	0.0769	2.286 mg/L	0.0769	3.36%
W 207.912	43.3	0.0175 mg/L	0.00165	0.0175 mg/L	0.00165	9.45%
Y 371.029	1385.8				67.16	4.85%
Zn 206.200	33119.8	2.250 mg/L	0.0243	2.250 mg/L	0.0243	1.08%
P 213.617	-4091.1	-3.009 mg/L	0.0365	-3.009 mg/L	0.0365	1.21%
Si 251.611	86655.4	2.209 mg/L	0.0210	2.209 mg/L	0.0210	0.95%
Li 670.784	161175.1	2.457 mg/L	0.1114	2.457 mg/L	0.1114	4.53%
Li 610.362	16848.7	2.440 mg/L	0.1195	2.440 mg/L	0.1195	4.90%
S 181.975	21.8	0.0894 mg/L	0.03573	0.0894 mg/L	0.03573	39.94%

ALAB: 00102

Sequence No.: 79
 Sample ID: 312205-002
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 93
 Date Collected: 10/17/2012 3:22:09 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 312205-002

	Mean Corrected		Calib		Sample			
Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Ag 328.068	277.1	0.0021	mg/L	0.00226	0.0021	mg/L	0.00226	105.99%
Al 308.215	442.0	0.0129	mg/L	0.01396	0.0129	mg/L	0.01396	108.27%
As 188.979	127.2	0.0230	mg/L	0.00748	0.0230	mg/L	0.00748	32.56%
B 249.677	11362.8	0.1285	mg/L	0.00041	0.1285	mg/L	0.00041	0.32%
Ba 233.527	15292.4	0.1485	mg/L	0.00433	0.1485	mg/L	0.00433	2.92%
Be 313.107	1908.3	0.0009	mg/L	0.00013	0.0009	mg/L	0.00013	14.59%
Bi 223.061	18.1	0.0084	mg/L	0.00123	0.0084	mg/L	0.00123	14.78%
Bi 190.171	20.4	0.0252	mg/L	0.01789	0.0252	mg/L	0.01789	70.98%
Ca 315.887	245216.7	121.0	mg/L	1.19	121.0	mg/L	1.19	0.99%
Ca 317.933	290168.3	121.1	mg/L	1.98	121.1	mg/L	1.98	1.64%
Cd 214.440	-160.1	-0.0036	mg/L	0.00017	-0.0036	mg/L	0.00017	4.59%
Co 228.616	30.2	0.0012	mg/L	0.00002	0.0012	mg/L	0.00002	2.10%
Cr 267.716	213.3	0.0055	mg/L	0.00012	0.0055	mg/L	0.00012	2.26%
Cu 324.752	942.4	0.0032	mg/L	0.00139	0.0032	mg/L	0.00139	44.07%
Fe 238.204	1037.2	0.0263	mg/L	0.00032	0.0263	mg/L	0.00032	1.23%
Fe 273.955	428.9	0.0258	mg/L	0.00064	0.0258	mg/L	0.00064	2.47%
K 766.490	16302.0	6.172	mg/L	0.3001	6.172	mg/L	0.3001	4.86%
Mg 279.077	7998.8	35.74	mg/L	0.565	35.74	mg/L	0.565	1.58%
Mn 257.610	594.1	0.0014	mg/L	0.00005	0.0014	mg/L	0.00005	3.58%
Mo 202.031	50.3	0.0113	mg/L	0.00013	0.0113	mg/L	0.00013	1.19%
Na 589.592	253159.0	42.62	mg/L	0.224	42.62	mg/L	0.224	0.53%
Na 330.237	322.3	44.56	mg/L	0.708	44.56	mg/L	0.708	1.59%
Ni 231.604	34.9	0.0019	mg/L	0.00036	0.0019	mg/L	0.00036	19.23%
Pb 220.353	58.8	0.0030	mg/L	0.00044	0.0030	mg/L	0.00044	14.55%
Sb 206.836	-12.4	-0.0113	mg/L	0.00273	-0.0113	mg/L	0.00273	24.18%
Se 196.026	-8.8	-0.0011	mg/L	0.00104	-0.0011	mg/L	0.00104	92.52%
Sn 189.927	-42.5	-0.0138	mg/L	0.00143	-0.0138	mg/L	0.00143	10.33%
Sr 407.771	349636.1	0.8128	mg/L	0.00092	0.8128	mg/L	0.00092	0.11%
Sr 421.552	196403.9	0.8169	mg/L	0.00401	0.8169	mg/L	0.00401	0.49%
Ti 334.940	2565.8	0.0070	mg/L	0.00148	0.0070	mg/L	0.00148	21.26%
Tl 190.801	-38.0	-0.0069	mg/L	0.00292	-0.0069	mg/L	0.00292	42.54%
V 290.880	220.4	0.0014	mg/L	0.00313	0.0014	mg/L	0.00313	219.99%
W 207.912	12.2	0.0049	mg/L	0.00117	0.0049	mg/L	0.00117	23.83%
Y 371.029	1410.9						173.29	12.28%
Zn 206.200	66.4	0.0045	mg/L	0.00027	0.0045	mg/L	0.00027	6.02%
P 213.617	40.4	0.0297	mg/L	0.00071	0.0297	mg/L	0.00071	2.38%
Si 251.611	551071.4	14.05	mg/L	0.536	14.05	mg/L	0.536	3.81%
Li 670.784	-32.8	-0.0005	mg/L	0.00093	-0.0005	mg/L	0.00093	187.07%
Li 610.362	-3038.6	-0.4400	mg/L	0.06636	-0.4400	mg/L	0.06636	15.08%
S 181.975	5988.1	24.60	mg/L	0.089	24.60	mg/L	0.089	0.36%

ALAB: 00103

Sequence No.: 80

Sample ID: MS

Analyst: nina

Initial Sample Wt:

Dilution:

Autosampler Location: 94

Date Collected: 10/17/2012 3:24:45 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	71938.3	0.5540 mg/L	0.01696	0.5540 mg/L	0.01696	3.06%
Al 308.215	37024.8	1.080 mg/L	0.0422	1.080 mg/L	0.0422	3.91%
As 188.979	6218.5	1.123 mg/L	0.0189	1.123 mg/L	0.0189	1.69%
B 249.677	113101.7	1.279 mg/L	0.0380	1.279 mg/L	0.0380	2.97%
Ba 233.527	133523.8	1.296 mg/L	0.0308	1.296 mg/L	0.0308	2.37%
Be 313.107	2510891.9	1.134 mg/L	0.0121	1.134 mg/L	0.0121	1.07%
Bi 223.061	-53.7	-0.0247 mg/L	0.00067	-0.0247 mg/L	0.00067	2.70%
Bi 190.171	21.1	0.0260 mg/L	0.00526	0.0260 mg/L	0.00526	20.21%
Ca 315.887	260283.1	128.4 mg/L	5.34	128.4 mg/L	5.34	4.16%
Ca 317.933	309159.0	129.0 mg/L	5.21	129.0 mg/L	5.21	4.04%
Cd 214.440	46701.3	1.054 mg/L	0.0317	1.054 mg/L	0.0317	3.01%
Co 228.616	26643.0	1.043 mg/L	0.0315	1.043 mg/L	0.0315	3.01%
Cr 267.716	43391.0	1.124 mg/L	0.0250	1.124 mg/L	0.0250	2.23%
Cu 324.752	316102.5	1.061 mg/L	0.0399	1.061 mg/L	0.0399	3.76%
Fe 238.204	44770.6	1.136 mg/L	0.0250	1.136 mg/L	0.0250	2.20%
Fe 273.955	18455.2	1.108 mg/L	0.0255	1.108 mg/L	0.0255	2.30%
K 766.490	49438.7	18.72 mg/L	0.746	18.72 mg/L	0.746	3.99%
Mg 279.077	8485.2	37.92 mg/L	0.199	37.92 mg/L	0.199	0.53%
Mn 257.610	476972.7	1.110 mg/L	0.0051	1.110 mg/L	0.0051	0.46%
Mo 202.031	4467.6	1.002 mg/L	0.0088	1.002 mg/L	0.0088	0.88%
Na 589.592	277399.4	46.70 mg/L	2.244	46.70 mg/L	2.244	4.81%
Na 330.237	318.8	44.08 mg/L	0.341	44.08 mg/L	0.341	0.77%
Ni 231.604	19472.5	1.039 mg/L	0.0209	1.039 mg/L	0.0209	2.01%
Pb 220.353	19885.5	1.011 mg/L	0.0034	1.011 mg/L	0.0034	0.33%
Sb 206.836	1105.5	1.007 mg/L	0.0253	1.007 mg/L	0.0253	2.51%
Se 196.026	8228.3	1.050 mg/L	0.0239	1.050 mg/L	0.0239	2.28%
Sn 189.927	-58.2	-0.0189 mg/L	0.00174	-0.0189 mg/L	0.00174	9.21%
Sr 407.771	812466.8	1.889 mg/L	0.0945	1.889 mg/L	0.0945	5.00%
Sr 421.552	457725.1	1.904 mg/L	0.0970	1.904 mg/L	0.0970	5.09%
Ti 334.940	427946.3	1.163 mg/L	0.0140	1.163 mg/L	0.0140	1.20%
Tl 190.801	5639.8	1.020 mg/L	0.0096	1.020 mg/L	0.0096	0.94%
V 290.880	172211.8	1.115 mg/L	0.0318	1.115 mg/L	0.0318	2.85%
W 207.912	31.6	0.0127 mg/L	0.00122	0.0127 mg/L	0.00122	9.56%
Y 371.029	1701.6				59.72	3.51%
Zn 206.200	15741.9	1.070 mg/L	0.0386	1.070 mg/L	0.0386	3.61%
P 213.617	-1775.9	-1.306 mg/L	0.0318	-1.306 mg/L	0.0318	2.43%
Si 251.611	629899.1	16.06 mg/L	0.016	16.06 mg/L	0.016	0.10%
Li 670.784	72856.0	1.111 mg/L	0.0525	1.111 mg/L	0.0525	4.73%
Li 610.362	6317.5	0.9149 mg/L	0.12157	0.9149 mg/L	0.12157	13.29%
S 181.975	6196.8	25.46 mg/L	0.493	25.46 mg/L	0.493	1.94%

ALAB: 00104

Sequence No.: 81
 Sample ID: MSD
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 95
 Date Collected: 10/17/2012 3:27:22 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	69435.9	0.5348 mg/L	0.02712	0.5348 mg/L	0.02712	5.07%
Al 308.215	35174.2	1.026 mg/L	0.0534	1.026 mg/L	0.0534	5.20%
As 188.979	6053.5	1.093 mg/L	0.0057	1.093 mg/L	0.0057	0.52%
B 249.677	108326.1	1.225 mg/L	0.0789	1.225 mg/L	0.0789	6.44%
Ba 233.527	129671.1	1.259 mg/L	0.0742	1.259 mg/L	0.0742	5.90%
Be 313.107	2367252.1	1.070 mg/L	0.0429	1.070 mg/L	0.0429	4.01%
Bi 223.061	-41.7	-0.0192 mg/L	0.00104	-0.0192 mg/L	0.00104	5.41%
Bi 190.171	22.6	0.0279 mg/L	0.01343	0.0279 mg/L	0.01343	48.07%
Ca 315.887	267757.3	132.1 mg/L	2.22	132.1 mg/L	2.22	1.68%
Ca 317.933	317995.4	132.7 mg/L	2.48	132.7 mg/L	2.48	1.87%
Cd 214.440	44792.9	1.011 mg/L	0.0650	1.011 mg/L	0.0650	6.43%
Co 228.616	25653.1	1.005 mg/L	0.0515	1.005 mg/L	0.0515	5.12%
Cr 267.716	42630.1	1.104 mg/L	0.0562	1.104 mg/L	0.0562	5.09%
Cu 324.752	303464.5	1.019 mg/L	0.0594	1.019 mg/L	0.0594	5.83%
Fe 238.204	43169.0	1.095 mg/L	0.0672	1.095 mg/L	0.0672	6.14%
Fe 273.955	17764.1	1.067 mg/L	0.0648	1.067 mg/L	0.0648	6.08%
K 766.490	51027.2	19.32 mg/L	0.406	19.32 mg/L	0.406	2.10%
Mg 279.077	8380.0	37.45 mg/L	0.236	37.45 mg/L	0.236	0.63%
Mn 257.610	449183.3	1.046 mg/L	0.0459	1.046 mg/L	0.0459	4.39%
Mo 202.031	4393.3	0.9850 mg/L	0.00836	0.9850 mg/L	0.00836	0.85%
Na 589.592	284001.1	47.81 mg/L	0.519	47.81 mg/L	0.519	1.08%
Na 330.237	306.8	42.42 mg/L	0.413	42.42 mg/L	0.413	0.97%
Ni 231.604	18799.5	1.003 mg/L	0.0518	1.003 mg/L	0.0518	5.17%
Pb 220.353	19481.1	0.9908 mg/L	0.00652	0.9908 mg/L	0.00652	0.66%
Sb 206.836	1098.5	1.000 mg/L	0.0021	1.000 mg/L	0.0021	0.21%
Se 196.026	7892.7	1.008 mg/L	0.0082	1.008 mg/L	0.0082	0.82%
Sn 189.927	-51.0	-0.0166 mg/L	0.00232	-0.0166 mg/L	0.00232	13.96%
Sr 407.771	834475.7	1.940 mg/L	0.0232	1.940 mg/L	0.0232	1.20%
Sr 421.552	470903.6	1.959 mg/L	0.0251	1.959 mg/L	0.0251	1.28%
Ti 334.940	403935.3	1.097 mg/L	0.0441	1.097 mg/L	0.0441	4.02%
Tl 190.801	5589.0	1.011 mg/L	0.0149	1.011 mg/L	0.0149	1.47%
V 290.880	167090.7	1.082 mg/L	0.0617	1.082 mg/L	0.0617	5.71%
W 207.912	29.5	0.0119 mg/L	0.00048	0.0119 mg/L	0.00048	4.05%
Y 371.029	1478.3				199.23	13.48%
Zn 206.200	15198.0	1.033 mg/L	0.0623	1.033 mg/L	0.0623	6.04%
P 213.617	-1748.5	-1.286 mg/L	0.0044	-1.286 mg/L	0.0044	0.34%
Si 251.611	586427.0	14.95 mg/L	0.735	14.95 mg/L	0.735	4.92%
Li 670.784	74031.7	1.129 mg/L	0.0015	1.129 mg/L	0.0015	0.14%
Li 610.362	6103.0	0.8838 mg/L	0.10675	0.8838 mg/L	0.10675	12.08%
S 181.975	6025.0	24.75 mg/L	0.186	24.75 mg/L	0.186	0.75%

ALAB: 00105

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	10/17/2012 2:27:29 PM
58	99	312205-007	
59	100	311995-002	

ALAB : 00106

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.
-----------	-------------------	----------------	-----------------

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66

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

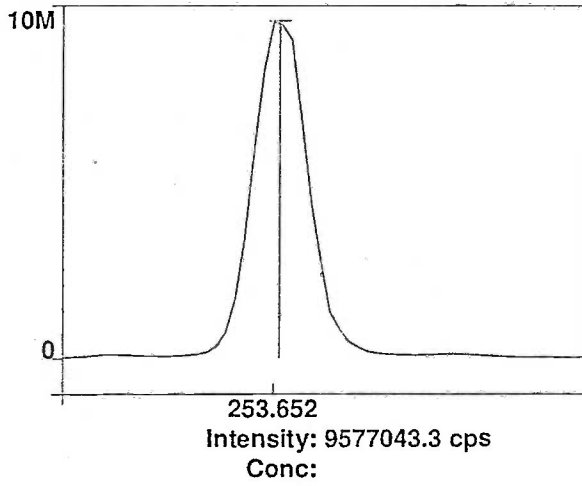
Sample No	Sample Units *	Test	QC Batch
1	mg/L		
2	mg/L		
3	mg/L		
4	mg/L		
5	mg/L		
6	mg/L		
7	mg/L		
8	mg/L		
9	mg/L		
10	mg/L		
11	mg/L		
12	mg/L		
13	mg/L		
14	mg/L		
15	mg/L		
16	mg/L		
17	mg/L		
18	mg/L	6010 Dissolved Meta	QC1130580
19	mg/L	6010 Dissolved Meta	QC1130580
20	mg/L	6010 Dissolved Meta	
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:

Sample ID: Hg_ReAlign

Hg 253.652

Rep: 1



1

ALAB : 00109

=====

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

X viewing position set to 0.0 mm having Peak intensity 1028928.4 for Axial viewing
Y 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	59741.0
0.0	12.0	104512.6

ALAB: 00110

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

X viewing position set to 0.0 mm having Peak intensity 1051600.6 for Axial viewing
Y 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
0.0	14.5	1001200.2

ALAB: 00111

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: 00112

=====
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
=====

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:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	614.6	43.21	7.03%	[0.00]	mg/L
Al 308.215	3016.3	79.38	2.63%	[0.00]	mg/L
As 188.979	23.9	17.43	73.07%	[0.00]	mg/L
B 249.677	167.9	15.16	9.03%	[0.00]	mg/L
Ba 233.527	-72.0	3.97	5.51%	[0.00]	mg/L
Be 313.107	-3501.9	120.01	3.43%	[0.00]	mg/L
Bi 223.061	-44.0	6.08	13.82%	[0.00]	mg/L
Bi 190.171	10.2	2.17	21.36%	[0.00]	mg/L
Ca 315.887	38.4	2.27	5.92%	[0.00]	mg/L
Ca 317.933	140.6	3.85	2.74%	[0.00]	mg/L
Cd 214.440	20.8	0.96	4.64%	[0.00]	mg/L
Co 228.616	-35.9	3.30	9.19%	[0.00]	mg/L
Cr 267.716	-65.7	5.79	8.81%	[0.00]	mg/L
Cu 324.752	2240.7	82.03	3.66%	[0.00]	mg/L
Fe 238.204	106.6	1.38	1.30%	[0.00]	mg/L
Fe 273.955	-368.5	1.73	0.47%	[0.00]	mg/L
K 766.490	-473.5	80.16	16.93%	[0.00]	mg/L
Mg 279.077	-37.3	0.34	0.92%	[0.00]	mg/L
Mn 257.610	312.0	2.98	0.95%	[0.00]	mg/L
Mo 202.031	-3.0	0.64	20.93%	[0.00]	mg/L
Na 589.592	706.2	136.06	19.27%	[0.00]	mg/L
Na 330.237	29.0	9.82	33.87%	[0.00]	mg/L
Ni 231.604	-9.4	9.35	99.39%	[0.00]	mg/L
Pb 220.353	-85.3	7.32	8.58%	[0.00]	mg/L
Sb 206.836	-12.8	5.57	43.67%	[0.00]	mg/L
Se 196.026	19.2	92.48	482.76%	[0.00]	mg/L
Sn 189.927	-10.7	5.91	55.17%	[0.00]	mg/L
Sr 407.771	59.9	1.28	2.14%	[0.00]	mg/L
Sr 421.552	149.4	68.91	46.13%	[0.00]	mg/L
Ti 334.940	-1227.7	276.62	22.53%	[0.00]	mg/L
Tl 190.801	21.7	21.80	100.27%	[0.00]	mg/L
V 290.880	3597.4	48.58	1.35%	[0.00]	mg/L
W 207.912	19.0	0.40	2.11%	[0.00]	mg/L
Zn 206.200	3.6	2.23	62.33%	[0.00]	mg/L
P 213.617	-4.4	5.82	132.85%	[0.00]	mg/L
Si 251.611	476.6	101.18	21.23%	[0.00]	mg/L
Li 670.784	342.7	226.12	65.98%	[0.00]	mg/L
Li 610.362	-3034.9	306.71	10.11%	[0.00]	mg/L
S 181.975	6.7	0.44	6.53%	[0.00]	mg/L

ALAB: 00113

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.	Calib 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
Ba 233.527	5800.4	200.91	3.46%	[0.05]	mg/L
Be 313.107	113036.3	4185.41	3.70%	[0.05]	mg/L
Cd 214.440	2411.9	10.23	0.42%	[0.05]	mg/L
Co 228.616	1403.0	3.23	0.23%	[0.05]	mg/L
Cr 267.716	2057.9	4.14	0.20%	[0.05]	mg/L
Cu 324.752	16152.7	816.33	5.05%	[0.05]	mg/L
Fe 238.204	2155.5	16.35	0.76%	[0.05]	mg/L
Fe 273.955	935.5	11.03	1.18%	[0.05]	mg/L
Mn 257.610	25431.5	796.36	3.13%	[0.05]	mg/L
Mo 202.031	230.7	4.00	1.73%	[0.05]	mg/L
Ni 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
Sb 206.836	64.2	4.79	7.46%	[0.05]	mg/L
Se 196.026	358.4	13.01	3.63%	[0.05]	mg/L
Ti 334.940	19946.1	880.41	4.41%	[0.05]	mg/L
Tl 190.801	284.4	18.40	6.47%	[0.05]	mg/L
V 290.880	8266.1	416.88	5.04%	[0.05]	mg/L
Zn 206.200	799.3	10.00	1.25%	[0.05]	mg/L

ALAB: 001111

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
Ba 233.527	115651.8	2380.41	2.06%	[1.00] mg/L
Be 313.107	2297449.5	35599.88	1.55%	[1.00] mg/L
Cd 214.440	50266.8	1239.62	2.47%	[1.00] mg/L
Co 228.616	28681.5	552.55	1.93%	[1.00] mg/L
Cr 267.716	42076.9	1284.16	3.05%	[1.00] mg/L
Cu 324.752	326226.1	5124.26	1.57%	[1.00] mg/L
Fe 238.204	44107.8	896.64	2.03%	[1.00] mg/L
Fe 273.955	18719.7	398.58	2.13%	[1.00] mg/L
Mn 257.610	496397.4	9455.68	1.90%	[1.00] mg/L
Mo 202.031	4794.5	46.79	0.98%	[1.00] mg/L
Ni 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
Sb 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
Sr 407.771	422913.3	27154.22	6.42%	[1.00] mg/L
Sr 421.552	236845.3	15732.94	6.64%	[1.00] mg/L
Ti 334.940	394021.1	4744.00	1.20%	[1.00] mg/L
Tl 190.801	6390.0	9.31	0.15%	[1.00] mg/L
V 290.880	164880.2	3118.49	1.89%	[1.00] mg/L
Zn 206.200	16033.1	411.57	2.57%	[1.00] mg/L

ALAB: 00115

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.	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
Ba 233.527	2063411.5	81299.54	3.94%	[20.00]	mg/L
Be 313.107	Saturated2				
Bi 223.061	22395.4	7.46	0.03%	[10]	mg/L
Bi 190.171	8243.1	22.86	0.28%	[10]	mg/L
Ca 315.887	22411.6	366.31	1.63%	[10.00]	mg/L
Ca 317.933	26268.3	356.16	1.36%	[10.00]	mg/L
Cd 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
K 766.490	28824.7	22.42	0.08%	[10.00]	mg/L
Mg 279.077	2466.8	48.63	1.97%	[10.00]	mg/L
Mn 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
W 207.912	12518.4	74.28	0.59%	[5]	mg/L
Zn 206.200	297987.9	13700.13	4.60%	[20.00]	mg/L
Li 670.784	138060.0	1238.30	0.90%	[2.0]	mg/L
Li 610.362	14061.5	382.82	2.72%	[2.0]	mg/L
S 181.975	2441.2	24.64	1.01%	[10.00]	mg/L

ALAB: 00116

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)

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

ALAB: 00117

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
Ca 315.887	217855.3	1157.66	0.53%	{100.00}	mg/L
Ca 317.933	254890.3	2037.44	0.80%	{100.00}	mg/L
K 766.490	281378.0	2548.71	0.91%	{100.00}	mg/L
Mg 279.077	23267.6	27.16	0.12%	{100.00}	mg/L
Na 589.592	645890.4	7975.40	1.23%	{100.00}	mg/L
Na 330.237	776.8	8.61	1.11%	{100.00}	mg/L

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)

Analyte	Mean Corrected	Std.Dev.	RSD	Conc. Units	Calib
P 213.617	13372.2	152.45	1.14%	[10.00] mg/L	
Si 251.611	405090.8	9598.75	2.37%	[10.00] mg/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	130700	0.00000	1.000000	
Al 308.215	3	Lin Thru 0	0.0	34650	0.00000	0.999991	
As 188.979	3	Lin Thru 0	0.0	5618	0.00000	0.999997	
B 249.677	3	Lin Thru 0	0.0	89510	0.00000	0.999998	
Ba 233.527	3	Lin Thru 0	0.0	103200	0.00000	0.999982	
Be 313.107	2	Lin Thru 0	0.0	2297000	0.00000	1.000000	
Bi 223.061	1	Lin Thru 0	0.0	2240	0.00000	1.000000	
Bi 190.171	1	Lin Thru 0	0.0	824.3	0.00000	1.000000	
Ca 315.887	2	Lin Thru 0	0.0	2179	0.00000	0.999996	
Ca 317.933	2	Lin Thru 0	0.0	2550	0.00000	0.999995	
Cd 214.440	3	Lin Thru 0	0.0	43600	0.00000	0.999971	
Co 228.616	3	Lin Thru 0	0.0	26190	0.00000	0.999989	
Cr 267.716	3	Lin Thru 0	0.0	38500	0.00000	0.999989	
Cu 324.752	3	Lin Thru 0	0.0	305900	0.00000	0.999994	
Fe 238.204	3	Lin Thru 0	0.0	39490	0.00000	0.999983	
Fe 273.955	3	Lin Thru 0	0.0	17190	0.00000	0.999990	
K 766.490	2	Lin Thru 0	0.0	2814	0.00000	0.999997	
Mg 279.077	2	Lin Thru 0	0.0	232.8	0.00000	0.999982	
Mn 257.610	3	Lin Thru 0	0.0	438400	0.00000	0.999978	
Mo 202.031	3	Lin Thru 0	0.0	4605	0.00000	0.999998	
Na 589.592	2	Lin Thru 0	0.0	6464	0.00000	0.999969	
Na 330.237	1	Lin Thru 0	0.0	7.768	0.00000	1.000000	
Ni 231.604	3	Lin Thru 0	0.0	18910	0.00000	0.999987	
Pb 220.353	3	Lin Thru 0	0.0	20410	0.00000	0.999989	
Sb 206.836	2	Lin Thru 0	0.0	1115	0.00000	0.999971	
Se 196.026	3	Lin Thru 0	0.0	7868	0.00000	0.999997	
Sn 189.927	1	Lin Thru 0	0.0	3075	0.00000	1.000000	
Sr 407.771	1	Lin Thru 0	0.0	422900	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	236800	0.00000	1.000000	
Ti 334.940	3	Lin Thru 0	0.0	380000	0.00000	0.999998	
Tl 190.801	3	Lin Thru 0	0.0	5543	0.00000	0.999971	
V 290.880	3	Lin Thru 0	0.0	158200	0.00000	0.999998	
W 207.912	1	Lin Thru 0	0.0	2504	0.00000	1.000000	
Zn 206.200	3	Lin Thru 0	0.0	14900	0.00000	0.999993	
P 213.617	1	Lin Thru 0	0.0	1337	0.00000	1.000000	
Si 251.611	1	Lin Thru 0	0.0	40510	0.00000	1.000000	
Li 670.784	1	Lin Thru 0	0.0	69030	0.00000	1.000000	
Li 610.362	1	Lin Thru 0	0.0	7031	0.00000	1.000000	
S 181.975	1	Lin Thru 0	0.0	244.1	0.00000	1.000000	

ALAB: 00118

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%
Ca 315.887	2344.2	1.076 mg/L	0.0012	1.076 mg/L	0.0012	0.11%
Ca 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%						
K 766.490	28470.5	10.12 mg/L	0.397	10.12 mg/L	0.397	3.92%
Mg 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%						
Na 589.592	7078.0	1.095 mg/L	0.0842	1.095 mg/L	0.0842	7.69%
Na 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%						
Sb 206.836	1103.6	0.9898 mg/L	0.00042	0.9898 mg/L	0.00042	0.04%
QC value within limits for Sb 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%						
Sn 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%						
W 207.912	44.1	0.0176 mg/L	0.00065	0.0176 mg/L	0.00065	3.70%
Y 371.029	1447.0				105.15	7.27%
Zn 206.200	15230.7	1.022 mg/L	0.0193	1.022 mg/L	0.0193	1.88%
QC value within limits for Zn 206.200 Recovery = 102.20%						
P 213.617	-1791.4	-1.340 mg/L	0.0282	-1.340 mg/L	0.0282	2.10%
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%						
Li 670.784	65949.8	0.9554 mg/L	0.05723	0.9554 mg/L	0.05723	5.99%
Li 610.362	7192.6	1.023 mg/L	0.1809	1.023 mg/L	0.1809	17.69%
QC value within limits for Li 610.362 Recovery = 102.56%						

CONFIDENTIAL

LMC-PET-00002013

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)

Analyte	Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Std.Dev.	RSD
Ag 328.068	10.0	0.0001 mg/L		0.00021	0.0001 mg/L	0.00021	277.04%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 308.215	-89.7	-0.0026 mg/L		0.00007	-0.0026 mg/L	0.00007	2.52%
QC value within limits for Al 308.215 Recovery = Not calculated							
As 188.979	-1.9	-0.0003 mg/L		0.00116	-0.0003 mg/L	0.00116	337.86%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677	3640.5	0.0407 mg/L		0.00116	0.0407 mg/L	0.00116	2.84%
QC value greater than the upper limit for B 249.677 Recovery = Not calculated							
Ba 233.527	68.3	0.0007 mg/L		0.00005	0.0007 mg/L	0.00005	7.99%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107	1108.2	0.0005 mg/L		0.00009	0.0005 mg/L	0.00009	19.25%
QC value within limits for Be 313.107 Recovery = Not calculated							
Bi 223.061	-9.1	-0.0041 mg/L		0.00083	-0.0041 mg/L	0.00083	20.26%
QC value within limits for Bi 223.061 Recovery = Not calculated							
Bi 190.171	6.9	0.0083 mg/L		0.00090	0.0083 mg/L	0.00090	10.85%
QC value within limits for Bi 190.171 Recovery = Not calculated							
Ca 315.887	-0.5	-0.0002 mg/L		0.00330	-0.0002 mg/L	0.00330	>999.9%
QC value within limits for Ca 315.887 Recovery = Not calculated							
Ca 317.933	5.1	0.0020 mg/L		0.00147	0.0020 mg/L	0.00147	74.23%
QC value within limits for Ca 317.933 Recovery = Not calculated							
Cd 214.440	41.0	0.0009 mg/L		0.00007	0.0009 mg/L	0.00007	7.78%
QC value within limits for Cd 214.440 Recovery = Not calculated							
Co 228.616	9.7	0.0004 mg/L		0.00012	0.0004 mg/L	0.00012	32.67%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716	13.5	0.0004 mg/L		0.00022	0.0004 mg/L	0.00022	63.32%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752	161.8	0.0005 mg/L		0.00064	0.0005 mg/L	0.00064	120.45%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204	59.1	0.0015 mg/L		0.00084	0.0015 mg/L	0.00084	56.45%
QC value within limits for Fe 238.204 Recovery = Not calculated							
Fe 273.955	12.2	0.0007 mg/L		0.00126	0.0007 mg/L	0.00126	176.54%
QC value within limits for Fe 273.955 Recovery = Not calculated							
K 766.490	-235.3	-0.0836 mg/L		0.05194	-0.0836 mg/L	0.05194	62.14%
QC value less than the lower limit for K 766.490 Recovery = Not calculated							
Mg 279.077	3.6	0.0156 mg/L		0.01982	0.0156 mg/L	0.01982	127.21%
QC value greater than the upper limit for Mg 279.077 Recovery = Not calculated							
Mn 257.610	215.0	0.0005 mg/L		0.00003	0.0005 mg/L	0.00003	5.75%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031	15.6	0.0034 mg/L		0.00051	0.0034 mg/L	0.00051	14.93%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592	-135.0	-0.0209 mg/L		0.01311	-0.0209 mg/L	0.01311	62.80%
QC value less than the lower limit for Na 589.592 Recovery = Not calculated							
Na 330.237	-1.3	-0.1653 mg/L		0.22270	-0.1653 mg/L	0.22270	134.71%
QC value less than the lower limit for Na 330.237 Recovery = Not calculated							
Ni 231.604	8.6	0.0005 mg/L		0.00016	0.0005 mg/L	0.00016	34.66%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353	-0.4	0.0000 mg/L		0.00077	0.0000 mg/L	0.00077	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836	23.2	0.0208 mg/L		0.00091	0.0208 mg/L	0.00091	4.38%
QC value greater than the upper limit for Sb 206.836 Recovery = Not calculated							
Se 196.026	73.1	0.0093 mg/L		0.01087	0.0093 mg/L	0.01087	117.02%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927	-0.1	0.0000 mg/L		0.00087	0.0000 mg/L	0.00087	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 407.771	1028.8	0.0024 mg/L		0.00178	0.0024 mg/L	0.00178	73.22%
QC value within limits for Sr 407.771 Recovery = Not calculated							
Sr 421.552	603.3	0.0025 mg/L		0.00199	0.0025 mg/L	0.00199	78.08%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940	467.7	0.0012 mg/L		0.00021	0.0012 mg/L	0.00021	17.38%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801	-3.9	-0.0007 mg/L		0.00374	-0.0007 mg/L	0.00374	527.00%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 290.880	121.9	0.0008 mg/L		0.00040	0.0008 mg/L	0.00040	52.53%
QC value within limits for V 290.880 Recovery = Not calculated							

ALAB: 00120

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%
Li 670.784	-219.5	-0.0032 mg/L	0.00526	-0.0032 mg/L	0.00526	165.51%
Li 610.362	84.1	0.0120 mg/L	0.01221	0.0120 mg/L	0.01221	102.09%
S 181.975	-4.3	-0.0175 mg/L	0.00556	-0.0175 mg/L	0.00556	31.72%

QC Failed. Continue with analysis.

ALAB: 00121

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	-0.0002 mg/L		0.00058	329.75%
Al 308.215	-607.5	-0.0175 mg/L		0.00027	-0.0175 mg/L		0.00027	1.56%
As 188.979	18.6	0.0033 mg/L		0.00008	0.0033 mg/L		0.00008	2.46%
B 249.677	3420.1	0.0382 mg/L		0.00026	0.0382 mg/L		0.00026	0.69%
Ba 233.527	67.1	0.0007 mg/L		0.00002	0.0007 mg/L		0.00002	3.05%
Be 313.107	76.3	0.0000 mg/L		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	158.33%
Bi 190.171	20.8	0.0252 mg/L		0.00005	0.0252 mg/L		0.00005	0.19%
Ca 315.887	210994.4	96.82 mg/L		0.080	96.82 mg/L		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	0.14%
QC value within limits for Ca 317.933 Recovery = 97.75%								
Cd 214.440	-14.3	-0.0003 mg/L		0.00003	-0.0003 mg/L		0.00003	7.92%
Co 228.616	5.2	0.0002 mg/L		0.00011	0.0002 mg/L		0.00011	56.78%
Cr 267.716	79.0	0.0021 mg/L		0.00023	0.0021 mg/L		0.00023	11.18%
Cu 324.752	831.3	0.0027 mg/L		0.00025	0.0027 mg/L		0.00025	9.06%
Fe 238.204	175.8	0.0045 mg/L		0.00016	0.0045 mg/L		0.00016	3.63%
Fe 273.955	-42.0	-0.0024 mg/L		0.00001	-0.0024 mg/L		0.00001	0.55%
K 766.490	275858.3	98.01 mg/L		0.460	98.01 mg/L		0.460	0.47%
QC value within limits for K 766.490 Recovery = 98.01%								
Mg 279.077	23251.0	99.87 mg/L		0.598	99.87 mg/L		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	0.55%
Mo 202.031	30.1	0.0065 mg/L		0.00037	0.0065 mg/L		0.00037	5.72%
Na 589.592	633485.8	98.00 mg/L		0.720	98.00 mg/L		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%
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	79.93%
Pb 220.353	-6.8	-0.0003 mg/L		0.00404	-0.0003 mg/L		0.00404	>999.9%
Sb 206.836	-5.9	-0.0053 mg/L		0.00084	-0.0053 mg/L		0.00084	15.72%
Se 196.026	-63.2	-0.0080 mg/L		0.02935	-0.0080 mg/L		0.02935	365.18%
Sn 189.927	-92.1	-0.0300 mg/L		0.00344	-0.0300 mg/L		0.00344	11.49%
Sr 407.771	231.9	0.0005 mg/L		0.00000	0.0005 mg/L		0.00000	0.35%
Sr 421.552	92.5	0.0004 mg/L		0.00002	0.0004 mg/L		0.00002	6.14%
Ti 334.940	3532.2	0.0093 mg/L		0.00044	0.0093 mg/L		0.00044	4.73%
Tl 190.801	-62.5	-0.0113 mg/L		0.00503	-0.0113 mg/L		0.00503	44.59%
V 290.880	-309.9	-0.0020 mg/L		0.00036	-0.0020 mg/L		0.00036	18.40%
W 207.912	25.7	0.0103 mg/L		0.00101	0.0103 mg/L		0.00101	9.81%
Y 371.029	1530.0						65.33	4.27%
Zn 206.200	6.8	0.0005 mg/L		0.00024	0.0005 mg/L		0.00024	51.36%
P 213.617	-8.8	-0.0066 mg/L		0.00602	-0.0066 mg/L		0.00602	91.44%
Si 251.611	455.7	0.0112 mg/L		0.00013	0.0112 mg/L		0.00013	1.18%
Li 670.784	-1132.3	-0.0164 mg/L		0.00008	-0.0164 mg/L		0.00008	0.50%
Li 610.362	-2698.6	-0.3838 mg/L		0.11840	-0.3838 mg/L		0.11840	30.85%
S 181.975	4.0	0.0162 mg/L		0.01895	0.0162 mg/L		0.01895	116.71%

All analyte(s) passed QC.

ALAB: 00122

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)

Analyte	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%
K 766.490	163.5	0.0581 mg/L	0.00226	0.0581 mg/L	0.00226	3.89%
Mg 279.077	15.3	0.0655 mg/L	0.00578	0.0655 mg/L	0.00578	8.81%
Mn 257.610	17.4	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	16.90%
Mo 202.031	4.1	0.0009 mg/L	0.00032	0.0009 mg/L	0.00032	35.96%
QC value less than the lower limit for Mo 202.031 Recovery = 0.09%						
Na 589.592	379.6	0.0587 mg/L	0.01016	0.0587 mg/L	0.01016	17.30%
Na 330.237	6.4	0.8254 mg/L	0.52452	0.8254 mg/L	0.52452	63.55%
Ni 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%
Sb 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%
Sr 407.771	0.0	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	>999.9%
Sr 421.552	9.0	0.0000 mg/L	0.00038	0.0000 mg/L	0.00038	990.61%
Ti 334.940	134.3	0.0004 mg/L	0.00008	0.0004 mg/L	0.00008	22.57%
Tl 190.801	-17.4	-0.0031 mg/L	0.00102	-0.0031 mg/L	0.00102	32.43%
V 290.880	149.6	0.0009 mg/L	0.00013	0.0009 mg/L	0.00013	13.30%
W 207.912	2.9	0.0012 mg/L	0.00012	0.0012 mg/L	0.00012	10.60%
Y 371.029	1577.4				101.55	6.44%
Zn 206.200	3.8	0.0003 mg/L	0.00007	0.0003 mg/L	0.00007	28.42%
P 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%
Li 670.784	-619.5	-0.0090 mg/L	0.00474	-0.0090 mg/L	0.00474	52.77%
Li 610.362	-14.6	-0.0021 mg/L	0.05364	-0.0021 mg/L	0.05364	>999.9%
S 181.975	-8.6	-0.0353 mg/L	0.02734	-0.0353 mg/L	0.02734	77.39%
QC Failed. Continue with analysis.						

ALAB: 00123

Sequence No.: 13
 Sample ID: ICSA(3-22-12)
 Analyst: nira
 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)

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 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%
B 249.677	-1663.1	-0.0186 mg/L	0.00259	-0.0186 mg/L	0.00259	13.95%
Ba 233.527	659.2	0.0064 mg/L	0.00063	0.0064 mg/L	0.00063	9.84%
Be 313.107	-640.2	-0.0003 mg/L	0.00007	-0.0003 mg/L	0.00007	26.38%
Bi 223.061	98.0	0.0438 mg/L	0.00294	0.0438 mg/L	0.00294	6.71%
Bi 190.171	87.4	0.1060 mg/L	0.00070	0.1060 mg/L	0.00070	0.66%
Ca 315.887	897645.4	411.9 mg/L	12.85	411.9 mg/L	12.85	3.12%
Ca 317.933	1053240.1	413.1 mg/L	12.60	413.1 mg/L	12.60	3.05%
Cd 214.440	180.3	0.0041 mg/L	0.00028	0.0041 mg/L	0.00028	6.79%
Co 228.616	36.6	0.0014 mg/L	0.00004	0.0014 mg/L	0.00004	2.81%
Cr 267.716	242.7	0.0063 mg/L	0.00039	0.0063 mg/L	0.00039	6.11%
Cu 324.752	-2334.9	-0.0076 mg/L	0.00046	-0.0076 mg/L	0.00046	5.99%
Fe 238.204	4976541.2	126.0 mg/L	1.95	126.0 mg/L	1.95	1.55%
Fe 273.955	2394387.4	139.3 mg/L	0.75	139.3 mg/L	0.75	0.54%
K 766.490	790.8	0.2810 mg/L	0.06462	0.2810 mg/L	0.06462	23.00%
Mg 279.077	100308.5	430.9 mg/L	15.77	430.9 mg/L	15.77	3.66%
Mn 257.610	654.4	0.0015 mg/L	0.00036	0.0015 mg/L	0.00036	24.13%
Mo 202.031	44.7	0.0097 mg/L	0.00186	0.0097 mg/L	0.00186	19.19%
Na 589.592	1047.7	0.1621 mg/L	0.00486	0.1621 mg/L	0.00486	3.00%
Na 330.237	18.8	2.419 mg/L	0.2233	2.419 mg/L	0.2233	9.23%
Ni 231.604	19.4	0.0010 mg/L	0.00049	0.0010 mg/L	0.00049	47.55%
Pb 220.353	-35.5	-0.0017 mg/L	0.00368	-0.0017 mg/L	0.00368	211.77%
Sb 206.836	-36.2	-0.0325 mg/L	0.00785	-0.0325 mg/L	0.00785	24.14%
Se 196.026	-642.9	-0.0817 mg/L	0.04929	-0.0817 mg/L	0.04929	60.32%
Sn 189.927	-58.1	-0.0189 mg/L	0.00815	-0.0189 mg/L	0.00815	43.07%
Sr 407.771	3494.8	0.0083 mg/L	0.00001	0.0083 mg/L	0.00001	0.10%
Sr 421.552	1958.9	0.0083 mg/L	0.00001	0.0083 mg/L	0.00001	0.14%
Ti 334.940	4029.5	0.0106 mg/L	0.00020	0.0106 mg/L	0.00020	1.90%
Tl 190.801	-119.2	-0.0215 mg/L	0.00133	-0.0215 mg/L	0.00133	6.21%
V 290.880	328.4	-0.0075 mg/L	0.00133	-0.0075 mg/L	0.00133	17.66%
W 207.912	169.8	0.0678 mg/L	0.00203	0.0678 mg/L	0.00203	2.99%
Y 371.029	1382.3				6.76	0.49%
Zn 206.200	69.2	0.0046 mg/L	0.00042	0.0046 mg/L	0.00042	9.00%
P 213.617	-93.2	-0.0697 mg/L	0.00930	-0.0697 mg/L	0.00930	13.34%
Si 251.611	694.8	0.0172 mg/L	0.01161	0.0172 mg/L	0.01161	67.70%
Li 670.784	-233.3	-0.0034 mg/L	0.01119	-0.0034 mg/L	0.01119	331.08%
Li 610.362	-7930.2	-1.128 mg/L	0.0063	-1.128 mg/L	0.0063	0.56%
S 181.975	-59.4	-0.2434 mg/L	0.02289	-0.2434 mg/L	0.02289	9.41%

ALAB: 00124

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)

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

ALAB: 00125

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:

Mean Data: ICP_CCV(7-6-12)

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	70130.1	0.5368 mg/L	0.01902	0.5368 mg/L	0.01902	3.54%
QC value within limits for Ag 328.068 Recovery = 107.35%						
Al 308.215	35733.8	1.031 mg/L	0.0202	1.031 mg/L	0.0202	1.96%
QC value within limits for Al 308.215 Recovery = 103.13%						
As 188.979	5897.0	1.050 mg/L	0.0086	1.050 mg/L	0.0086	0.82%
QC value within limits for As 188.979 Recovery = 104.97%						
B 249.677	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 Recovery = 114.13%						
Ba 233.527	112863.4	1.094 mg/L	0.0333	1.094 mg/L	0.0333	3.04%
QC value within limits for Ba 233.527 Recovery = 109.36%						
Be 313.107	2395443.9	1.043 mg/L	0.0339	1.043 mg/L	0.0339	3.25%
QC value within limits for Be 313.107 Recovery = 104.27%						
Bi 223.061	-75.4	-0.0337 mg/L	0.00149	-0.0337 mg/L	0.00149	4.44%
Bi 190.171	11.1	0.0134 mg/L	0.00234	0.0134 mg/L	0.00234	17.42%
Ca 315.887	2394.6	1.099 mg/L	0.0090	1.099 mg/L	0.0090	0.82%
Ca 317.933	2829.2	1.110 mg/L	0.0072	1.110 mg/L	0.0072	0.65%
Cd 214.440	45574.6	1.045 mg/L	0.0336	1.045 mg/L	0.0336	3.21%
QC value within limits for Cd 214.440 Recovery = 104.54%						
Co 228.616	27145.5	1.036 mg/L	0.0375	1.036 mg/L	0.0375	3.62%
QC value within limits for Co 228.616 Recovery = 103.65%						
Cr 267.716	41931.5	1.089 mg/L	0.0341	1.089 mg/L	0.0341	3.13%
QC value within limits for Cr 267.716 Recovery = 108.91%						
Cu 324.752	308506.7	1.009 mg/L	0.0295	1.009 mg/L	0.0295	2.92%
QC value within limits for Cu 324.752 Recovery = 100.87%						
Fe 238.204	42666.5	1.081 mg/L	0.0386	1.081 mg/L	0.0386	3.58%
QC value within limits for Fe 238.204 Recovery = 108.06%						
Fe 273.955	18106.1	1.053 mg/L	0.0189	1.053 mg/L	0.0189	1.80%
QC value within limits for Fe 273.955 Recovery = 105.33%						
K 766.490	26233.5	9.321 mg/L	0.5659	9.321 mg/L	0.5659	6.07%
Mg 279.077	268.5	1.153 mg/L	0.0125	1.153 mg/L	0.0125	1.08%
Mn 257.610	467225.2	1.066 mg/L	0.0359	1.066 mg/L	0.0359	3.37%
QC value within limits for Mn 257.610 Recovery = 106.56%						
Mo 202.031	4692.6	1.019 mg/L	0.0441	1.019 mg/L	0.0441	4.32%
QC value within limits for Mo 202.031 Recovery = 101.90%						
Na 589.592	5898.7	0.9126 mg/L	0.04297	0.9126 mg/L	0.04297	4.71%
Na 330.237	-8.1	-1.042 mg/L	0.6518	-1.042 mg/L	0.6518	62.57%
Ni 231.604	19907.7	1.053 mg/L	0.0422	1.053 mg/L	0.0422	4.01%
QC value within limits for Ni 231.604 Recovery = 105.26%						
Pb 220.353	21052.6	1.031 mg/L	0.0339	1.031 mg/L	0.0339	3.28%
QC value within limits for Pb 220.353 Recovery = 103.13%						
Sb 206.836	1146.8	1.029 mg/L	0.0006	1.029 mg/L	0.0006	0.06%
QC value within limits for Sb 206.836 Recovery = 102.86%						
Se 196.026	8490.9	1.079 mg/L	0.0080	1.079 mg/L	0.0080	0.74%
QC value within limits for Se 196.026 Recovery = 107.92%						
Sn 189.927	-9.2	-0.0030 mg/L	0.00004	-0.0030 mg/L	0.00004	1.48%
Sr 407.771	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 Recovery = 88.66%						
Sr 421.552	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 Recovery = 89.23%						
Ti 334.940	409307.2	1.077 mg/L	0.0405	1.077 mg/L	0.0405	3.76%
QC value within limits for Ti 334.940 Recovery = 107.70%						
Tl 190.801	6031.5	1.088 mg/L	0.0081	1.088 mg/L	0.0081	0.75%
QC value within limits for Tl 190.801 Recovery = 108.81%						
V 290.880	164704.7	1.041 mg/L	0.0309	1.041 mg/L	0.0309	2.97%
QC value within limits for V 290.880 Recovery = 104.08%						
W 207.912	44.3	0.0177 mg/L	0.00040	0.0177 mg/L	0.00040	2.24%
Y 371.029	1813.2				300.86	16.59%
Zn 206.200	15366.0	1.031 mg/L	0.0401	1.031 mg/L	0.0401	3.89%
QC value within limits for Zn 206.200 Recovery = 103.11%						
P 213.617	-1878.4	-1.405 mg/L	0.0839	-1.405 mg/L	0.0839	5.97%
Si 251.611	40282.3	0.9944 mg/L	0.02863	0.9944 mg/L	0.02863	2.88%
QC value within limits for Si 251.611 Recovery = 99.44%						
Li 670.784	58337.7	0.8451 mg/L	0.04019	0.8451 mg/L	0.04019	4.76%
Li 610.362	5754.0	0.8184 mg/L	0.00450	0.8184 mg/L	0.00450	0.55%
Ca 188.979	-2.1	-0.0126 mg/L	0.00328	-0.0126 mg/L	0.00328	25.94%

Sequence No.: 23
 Sample ID: ICP_CCVM(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_CCVM(7-6-12)

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	181.9	0.0014 mg/L	0.00039	0.0014 mg/L	0.00039	27.72%
Al 308.215	-486.9	-0.0141 mg/L	0.00188	-0.0141 mg/L	0.00188	13.36%
As 188.979	21.6	0.0038 mg/L	0.00289	0.0038 mg/L	0.00289	75.03%
B 249.677	12459.4	0.1392 mg/L	0.00118	0.1392 mg/L	0.00118	0.84%
Ba 233.527	94.0	0.0009 mg/L	0.00020	0.0009 mg/L	0.00020	21.69%
Be 313.107	556.2	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	20.67%
Bi 223.061	-4.2	-0.0019 mg/L	0.00275	-0.0019 mg/L	0.00275	147.46%
Bi 190.171	19.2	0.0233 mg/L	0.00600	0.0233 mg/L	0.00600	25.74%
Ca 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%						
Ca 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%						
Cd 214.440	56.9	0.0013 mg/L	0.00003	0.0013 mg/L	0.00003	1.93%
Co 228.616	19.5	0.0007 mg/L	0.00024	0.0007 mg/L	0.00024	31.96%
Cr 267.716	92.1	0.0024 mg/L	0.00027	0.0024 mg/L	0.00027	11.24%
Cu 324.752	974.9	0.0032 mg/L	0.00012	0.0032 mg/L	0.00012	3.84%
Fe 238.204	251.1	0.0064 mg/L	0.00031	0.0064 mg/L	0.00031	4.95%
Fe 273.955	-25.0	-0.0015 mg/L	0.00025	-0.0015 mg/L	0.00025	17.39%
K 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%						
Mg 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%						
Mn 257.610	1646.2	0.0038 mg/L	0.00006	0.0038 mg/L	0.00006	1.65%
Mo 202.031	35.7	0.0077 mg/L	0.00159	0.0077 mg/L	0.00159	20.51%
Na 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%						
Na 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%						
Ni 231.604	16.3	0.0009 mg/L	0.00005	0.0009 mg/L	0.00005	6.31%
Pb 220.353	43.2	0.0021 mg/L	0.00148	0.0021 mg/L	0.00148	69.75%
Sb 206.836	11.0	0.0099 mg/L	0.00080	0.0099 mg/L	0.00080	8.06%
Se 196.026	33.5	0.0043 mg/L	0.02523	0.0043 mg/L	0.02523	592.73%
Sn 189.927	-90.9	-0.0296 mg/L	0.00141	-0.0296 mg/L	0.00141	4.76%
Sr 407.771	366.8	0.0009 mg/L	0.00009	0.0009 mg/L	0.00009	9.87%
Sr 421.552	180.1	0.0008 mg/L	0.00007	0.0008 mg/L	0.00007	8.64%
Ti 334.940	3812.6	0.0100 mg/L	0.00011	0.0100 mg/L	0.00011	1.14%
Tl 190.801	-50.5	-0.0091 mg/L	0.00269	-0.0091 mg/L	0.00269	29.53%
V 290.880	-170.4	-0.0011 mg/L	0.00058	-0.0011 mg/L	0.00058	53.97%
W 207.912	30.2	0.0120 mg/L	0.00284	0.0120 mg/L	0.00284	23.61%
Y 371.029	1534.6				43.98	2.87%
Zn 206.200	15.7	0.0011 mg/L	0.00022	0.0011 mg/L	0.00022	20.83%
P 213.617	-9.3	-0.0069 mg/L	0.00179	-0.0069 mg/L	0.00179	25.91%
Si 251.611	482.9	0.0119 mg/L	0.00036	0.0119 mg/L	0.00036	3.01%
Li 670.784	-236.6	-0.0034 mg/L	0.00044	-0.0034 mg/L	0.00044	12.79%
Li 610.362	-1624.9	-0.2311 mg/L	0.04871	-0.2311 mg/L	0.04871	21.08%
S 181.975	6.8	0.0278 mg/L	0.03137	0.0278 mg/L	0.03137	112.95%

All analyte(s) passed QC.

ALAB: 00127

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 224.461	-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%		
Ca 315.887	92.3	0.0424 mg/L	0.00903	0.0424 mg/L	0.00903	21.32%		
Ca 317.933	115.6	0.0453 mg/L	0.00278	0.0453 mg/L	0.00278	6.13%		
Cd 214.440	64.0	0.0015 mg/L	0.00004	0.0015 mg/L	0.00004	5.85%		
Co 228.616	13.7	0.0005 mg/L	0.00031	0.0005 mg/L	0.00031	58.20%		
Cr 267.716	15.0	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	6.39%		
Cu 324.752	94.5	0.0003 mg/L	0.00024	0.0003 mg/L	0.00024	77.63%		
Fe 238.204	36.1	0.0009 mg/L	0.00005	0.0009 mg/L	0.00005	5.85%		
Fe 273.955	9.2	0.0005 mg/L	0.00065	0.0005 mg/L	0.00065	121.81%		
K 766.490	158.4	0.0563 mg/L	0.00948	0.0563 mg/L	0.00948	16.85%		
Mg 279.077	19.3	0.0828 mg/L	0.00585	0.0828 mg/L	0.00585	7.06%		
Mn 257.610	79.3	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	5.15%		
Mo 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%				
Na 589.592	-1.7	-0.0003 mg/L	0.02340	-0.0003 mg/L	0.02340	>999.9%		
Na 330.237	1.7	0.2224 mg/L	0.60320	0.2224 mg/L	0.60320	271.20%		
Ni 231.604	6.8	0.0004 mg/L	0.00019	0.0004 mg/L	0.00019	53.78%		
Pb 220.353	21.4	0.0010 mg/L	0.00095	0.0010 mg/L	0.00095	90.61%		
Sb 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%				
Se 196.026	-114.6	-0.0146 mg/L	0.01037	-0.0146 mg/L	0.01037	71.25%		
Sn 189.927	5.6	0.0018 mg/L	0.00100	0.0018 mg/L	0.00100	55.42%		
Sr 407.771	83.0	0.0002 mg/L	0.00014	0.0002 mg/L	0.00014	68.93%		
Sr 421.552	-6.6	0.0000 mg/L	0.00011	0.0000 mg/L	0.00011	396.36%		
Ti 334.940	138.2	0.0004 mg/L	0.00014	0.0004 mg/L	0.00014	37.22%		
Tl 190.801	5.3	0.0010 mg/L	0.00356	0.0010 mg/L	0.00356	371.58%		
V 290.880	70.9	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	5.02%		
W 207.912	4.5	0.0018 mg/L	0.00040	0.0018 mg/L	0.00040	21.81%		
Y 371.029	1526.8				93.07	6.10%		
Zn 206.200	7.3	0.0005 mg/L	0.00015	0.0005 mg/L	0.00015	30.43%		
P 213.617	6.6	0.0049 mg/L	0.00278	0.0049 mg/L	0.00278	56.12%		
Si 251.611	-149.2	-0.0037 mg/L	0.00012	-0.0037 mg/L	0.00012	3.15%		
Li 670.784	-16.6	-0.0002 mg/L	0.00349	-0.0002 mg/L	0.00349	>999.9%		
Li 610.362	3.5	0.0005 mg/L	0.01478	0.0005 mg/L	0.01478	>999.9%		
S 181.975	-6.8	-0.0277 mg/L	0.01447	-0.0277 mg/L	0.01447	52.29%		

QC Failed. Continue with analysis.

ALAB: 00128

=====
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
=====

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:
=====

Mean Data: 0.5 ppm CAM(daily)

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	34714.7	0.2657 mg/L	0.00017	0.2657 mg/L	0.00017	0.06%
Al 308.215	17908.1	0.5168 mg/L	0.00288	0.5168 mg/L	0.00288	0.56%
As 188.979	2913.5	0.5186 mg/L	0.00327	0.5186 mg/L	0.00327	0.63%
B 249.677	50767.4	0.5672 mg/L	0.00025	0.5672 mg/L	0.00025	0.04%
Ba 233.527	56142.2	0.5440 mg/L	0.00002	0.5440 mg/L	0.00002	0.00%
Be 313.107	1110629.7	0.4834 mg/L	0.01059	0.4834 mg/L	0.01059	2.19%
Bi 223.061	-35.1	-0.0157 mg/L	0.00260	-0.0157 mg/L	0.00260	16.58%
Bi 190.171	9.5	0.0115 mg/L	0.00243	0.0115 mg/L	0.00243	21.15%
Ca 315.887	1124.5	0.5160 mg/L	0.00740	0.5160 mg/L	0.00740	1.43%
Ca 317.933	1333.3	0.5229 mg/L	0.00904	0.5229 mg/L	0.00904	1.73%
Cd 214.440	22508.9	0.5163 mg/L	0.00323	0.5163 mg/L	0.00323	0.63%
Co 228.616	13532.2	0.5167 mg/L	0.00459	0.5167 mg/L	0.00459	0.89%
Cr 267.716	20418.5	0.5303 mg/L	0.00410	0.5303 mg/L	0.00410	0.77%
Cu 324.752	158852.1	0.5194 mg/L	0.00019	0.5194 mg/L	0.00019	0.04%
Fe 238.204	21248.5	0.5381 mg/L	0.00030	0.5381 mg/L	0.00030	0.06%
Fe 273.955	8983.6	0.5226 mg/L	0.00635	0.5226 mg/L	0.00635	1.22%
K 766.490	13772.1	4.893 mg/L	0.1033	4.893 mg/L	0.1033	2.11%
Mg 279.077	134.7	0.5785 mg/L	0.03680	0.5785 mg/L	0.03680	6.36%
Mn 257.610	229503.5	0.5234 mg/L	0.00973	0.5234 mg/L	0.00973	1.86%
Mo 202.031	2119.7	0.4603 mg/L	0.00010	0.4603 mg/L	0.00010	0.02%
Na 589.592	3163.8	0.4894 mg/L	0.02015	0.4894 mg/L	0.02015	4.12%
Na 330.237	-12.2	-1.565 mg/L	0.0903	-1.565 mg/L	0.0903	5.77%
Ni 231.604	9973.5	0.5273 mg/L	0.00085	0.5273 mg/L	0.00085	0.16%
Pb 220.353	10458.8	0.5124 mg/L	0.00512	0.5124 mg/L	0.00512	1.00%
Sb 206.836	546.9	0.4905 mg/L	0.00999	0.4905 mg/L	0.00999	2.04%
Se 196.026	3882.7	0.4935 mg/L	0.00776	0.4935 mg/L	0.00776	1.57%
Sn 189.927	-5.6	-0.0018 mg/L	0.00055	-0.0018 mg/L	0.00055	30.51%
Sr 407.771	222386.2	0.5258 mg/L	0.02296	0.5258 mg/L	0.02296	4.37%
Sr 421.552	125181.4	0.5285 mg/L	0.02081	0.5285 mg/L	0.02081	3.94%
Ti 334.940	199157.4	0.5240 mg/L	0.01057	0.5240 mg/L	0.01057	2.02%
Tl 190.801	3059.5	0.5519 mg/L	0.00554	0.5519 mg/L	0.00554	1.00%
V 290.880	79687.8	0.5036 mg/L	0.00014	0.5036 mg/L	0.00014	0.03%
W 207.912	12.9	0.0052 mg/L	0.00273	0.0052 mg/L	0.00273	52.99%
Y 371.029	1520.9				11.56	0.76%
Zn 206.200	7595.8	0.5097 mg/L	0.00656	0.5097 mg/L	0.00656	1.29%
P 213.617	-914.4	-0.6838 mg/L	0.00489	-0.6838 mg/L	0.00489	0.72%
Si 251.611	20297.9	0.5011 mg/L	0.01390	0.5011 mg/L	0.01390	2.77%
Li 670.784	32175.9	0.4661 mg/L	0.01474	0.4661 mg/L	0.01474	3.16%
Li 610.362	4075.9	0.5797 mg/L	0.20055	0.5797 mg/L	0.20055	34.59%
S 181.975	-3.0	-0.0122 mg/L	0.01155	-0.0122 mg/L	0.01155	94.27%

ALAB: 00129

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)

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	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%
K 766.490	-246.5	-0.0876 mg/L	0.04660	-0.0876 mg/L	0.04660	53.21%
Mg 279.077	6.6	0.0282 mg/L	0.00774	0.0282 mg/L	0.00774	27.49%
Mn 257.610	118.8	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	8.11%
Mo 202.031	12.9	0.0028 mg/L	0.00073	0.0028 mg/L	0.00073	26.02%
Na 589.592	-347.2	-0.0537 mg/L	0.02200	-0.0537 mg/L	0.02200	40.96%
Na 330.237	3.3	0.4195 mg/L	0.71473	0.4195 mg/L	0.71473	170.37%
Ni 231.604	2.8	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	19.87%
Pb 220.353	75.1	0.0037 mg/L	0.00076	0.0037 mg/L	0.00076	20.68%
Sb 206.836	26.5	0.0238 mg/L	0.00509	0.0238 mg/L	0.00509	21.39%
Se 196.026	38.6	0.0049 mg/L	0.00684	0.0049 mg/L	0.00684	139.63%
Sn 189.927	-0.8	-0.0003 mg/L	0.00075	-0.0003 mg/L	0.00075	277.12%
Sr 407.771	215.1	0.0005 mg/L	0.00023	0.0005 mg/L	0.00023	45.05%
Sr 421.552	102.3	0.0004 mg/L	0.00008	0.0004 mg/L	0.00008	17.59%
Ti 334.940	288.5	0.0008 mg/L	0.00021	0.0008 mg/L	0.00021	27.35%
Tl 190.801	-2.4	-0.0004 mg/L	0.00748	-0.0004 mg/L	0.00748	>999.9%
V 290.880	174.7	0.0011 mg/L	0.00079	0.0011 mg/L	0.00079	71.49%
W 207.912	2.8	0.0011 mg/L	0.00059	0.0011 mg/L	0.00059	52.63%
Y 371.029	1675.8				109.65	6.54%
Zn 206.200	9.7	0.0007 mg/L	0.00007	0.0007 mg/L	0.00007	10.07%
P 213.617	9.0	0.0067 mg/L	0.00167	0.0067 mg/L	0.00167	24.88%
Si 251.611	-126.6	-0.0031 mg/L	0.00030	-0.0031 mg/L	0.00030	9.67%
Li 670.784	-230.8	-0.0033 mg/L	0.00433	-0.0033 mg/L	0.00433	129.44%
Li 610.362	-138.6	-0.0197 mg/L	0.00762	-0.0197 mg/L	0.00762	38.65%
S 181.975	-7.8	-0.0318 mg/L	0.01376	-0.0318 mg/L	0.01376	43.33%

ALAB: 00130

=====
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 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.: 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:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	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: 00131

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)

Analyte	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
Ba 233.527	5583.5	49.43	0.89%	[0.05]	mg/L
Be 313.107	109008.1	59.76	0.05%	[0.05]	mg/L
Cd 214.440	2478.6	11.63	0.47%	[0.05]	mg/L
Co 228.616	1399.2	7.93	0.57%	[0.05]	mg/L
Cr 267.716	2052.2	7.26	0.35%	[0.05]	mg/L
Cu 324.752	15474.2	50.24	0.32%	[0.05]	mg/L
Fe 238.204	2191.7	4.02	0.18%	[0.05]	mg/L
Fe 273.955	1020.3	134.05	13.14%	[0.05]	mg/L
Mn 257.610	25052.4	94.52	0.38%	[0.05]	mg/L
Mo 202.031	231.1	0.17	0.07%	[0.05]	mg/L
Ni 231.604	1015.4	5.04	0.50%	[0.05]	mg/L
Pb 220.353	1138.6	22.99	2.02%	[0.05]	mg/L
Sb 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
Ti 334.940	18963.2	192.81	1.02%	[0.05]	mg/L
Tl 190.801	326.4	12.75	3.91%	[0.05]	mg/L
V 290.880	7974.1	52.25	0.66%	[0.05]	mg/L
Zn 206.200	905.9	11.47	1.27%	[0.05]	mg/L

ALAB: 00132

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)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib 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
Ba 233.527	111132.9	1366.57	1.23%	[1.00]	mg/L
Be 313.107	2213382.5	101719.91	4.60%	[1.00]	mg/L
Cd 214.440	48803.5	584.18	1.20%	[1.00]	mg/L
Co 228.616	27214.3	18.97	0.07%	[1.00]	mg/L
Cr 267.716	40170.8	163.22	0.41%	[1.00]	mg/L
Cu 324.752	305177.7	816.33	0.27%	[1.00]	mg/L
Fe 238.204	42341.2	60.96	0.14%	[1.00]	mg/L
Fe 273.955	17770.3	407.45	2.29%	[1.00]	mg/L
Mn 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
Pb 220.353	21081.0	380.86	1.81%	[1.00]	mg/L
Sb 206.836	1095.6	14.61	1.33%	[1.00]	mg/L
Se 196.026	8089.2	14.98	0.19%	[1.00]	mg/L
Sr 407.771	430156.2	2397.81	0.56%	[1.00]	mg/L
Sr 421.552	240414.4	558.01	0.23%	[1.00]	mg/L
Ti 334.940	380278.0	17559.27	4.62%	[1.00]	mg/L
Tl 190.801	6278.4	55.53	0.88%	[1.00]	mg/L
V 290.880	154015.8	1737.06	1.13%	[1.00]	mg/L
Zn 206.200	15713.3	459.29	2.92%	[1.00]	mg/L

ALAB: G0133

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	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
K 766.490	28445.2	425.29	1.50%	[10.00]	mg/L
Mg 279.077	2386.1	10.10	0.42%	[10.00]	mg/L
Mn 257.610	8589517.6	63859.20	0.74%	[20.00]	mg/L
Mo 202.031	89202.8	1147.73	1.29%	[20.00]	mg/L
Na 589.592	66984.6	1317.54	1.97%	[10.00]	mg/L
Ni 231.604	374739.1	6694.18	1.79%	[20.00]	mg/L
Pb 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
W 207.912	12384.2	0.91	0.01%	[5]	mg/L
Zn 206.200	294296.0	7905.17	2.69%	[20.00]	mg/L
Li 670.784	131197.3	1989.07	1.52%	[2.0]	mg/L
Li 610.362	13810.7	469.47	3.40%	[2.0]	mg/L
S 181.975	2434.3	16.47	0.68%	[10.00]	mg/L

ALAB: 00134

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)

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

ALAB: 00135

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
Ca 315.887	202527.0	5956.02	2.94%	[100.00]	mg/L
Ca 317.933	239440.8	4475.55	1.87%	[100.00]	mg/L
K 766.490	263921.1	6122.09	2.32%	[100.00]	mg/L
Mg 279.077	22363.6	101.80	0.46%	[100.00]	mg/L
Na 589.592	593286.9	14853.78	2.50%	[100.00]	mg/L
Na 330.237	723.2	1.45	0.20%	[100.00]	mg/L

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 Intensity	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	
Mg 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	
Sb 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	
W 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	
Li 670.784	1	Lin Thru 0	0.0	65600	0.00000	1.000000	
Li 610.362	1	Lin Thru 0	0.0	6905	0.00000	1.000000	
S 181.975	1	Lin Thru 0	0.0	243.4	0.00000	1.000000	

ALAB: 00136

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: 00137

=====
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)

Analyte	Mean Corrected Intensity	Conc. Units	Calib	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%
Bi 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%							
K 766.490	27439.6	10.39 mg/L		0.975	10.39 mg/L	0.975	9.39%
Mg 279.077	243.4	1.088 mg/L		0.0090	1.088 mg/L	0.0090	0.83%
Mn 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%							
Na 589.592	6325.6	1.065 mg/L		0.0990	1.065 mg/L	0.0990	9.30%
Na 330.237	-22.1	-3.057 mg/L		0.5386	-3.057 mg/L	0.5386	17.62%
Ni 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%							
Sn 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%							
Tl 190.801	5758.5	1.041 mg/L		0.0050	1.041 mg/L	0.0050	0.48%
QC value within limits for Tl 190.801 Recovery = 104.15%							

W 207.912	32.6	0.0132 mg/L	0.00007	0.0132 mg/L	0.00007	0.50%
Y 371.029	1722.3				79.86	4.64%
Zn 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%						
P 213.617	-1917.2	-1.410 mg/L	0.0652	-1.410 mg/L	0.0652	4.62%
Si 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%						
Li 670.784	61865.3	0.9431 mg/L	0.06770	0.9431 mg/L	0.06770	7.18%
Li 610.362	6083.7	0.8810 mg/L	0.14183	0.8810 mg/L	0.14183	16.10%
S 181.975	4.8	0.0198 mg/L	0.01106	0.0198 mg/L	0.01106	55.84%

All analyte(s) passed QC.

ALAB: 00139

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						
V 290.880	196.9	0.0013 mg/L	0.00016	0.0013 mg/L	0.00016	12.57%
QC value within limits for V 290.880 Recovery = Not calculated						

ALAB: 001140

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%
Li 670.784	115.2	0.0018 mg/L	0.00687	0.0018 mg/L	0.00687	391.47%
Li 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: 00141

=====
Analysis 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

Batch ID: 10-17-12

Results Data Set: 10-17-12

Results 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:

Dilution:

Sample Prep Vol:
=====

Mean Data: ICP_CCV(7-6-12)

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 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%							
Al 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%							
As 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%							
B 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%							
Ba 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%							
Be 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%							
Bi 223.061	-57.3	-0.0264 mg/L		0.00241	-0.0264 mg/L	0.00241	9.12%
Bi 190.171	5.7	0.0071 mg/L		0.00156	0.0071 mg/L	0.00156	22.07%
Ca 315.887	2307.1	1.138 mg/L		0.0001	1.138 mg/L	0.0001	0.01%
Ca 317.933	2732.7	1.141 mg/L		0.0035	1.141 mg/L	0.0035	0.30%
Cd 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%							
Co 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%							
Cr 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%							
Cu 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%							
Fe 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%							
Fe 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%							
K 766.490	28617.2	10.83 mg/L		0.153	10.83 mg/L	0.153	1.41%
Mg 279.077	251.8	1.125 mg/L		0.0049	1.125 mg/L	0.0049	0.44%
Mn 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%							
Mo 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%							
Na 589.592	7114.5	1.198 mg/L		0.0333	1.198 mg/L	0.0333	2.78%
Na 330.237	-23.9	-3.308 mg/L		0.4379	-3.308 mg/L	0.4379	13.24%
Ni 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%							
Pb 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%							
Sb 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%							
Se 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%							
Sn 189.927	-9.9	-0.0032 mg/L		0.00141	-0.0032 mg/L	0.00141	43.69%
Sr 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%							
Sr 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%							
Ti 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%							
Tl 190.801	5779.0	1.045 mg/L		0.0081	1.045 mg/L	0.0081	0.78%

W 207.912	19.5	0.0079 mg/L	0.00211	0.0079 mg/L	0.00211	26.85%
Y 371.029	1592.7				17.94	1.13%
Zn 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%						
P 213.617	-1875.6	-1.380 mg/L	0.0857	-1.380 mg/L	0.0857	6.21%
Si 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%						
Li 670.784	66363.6	1.012 mg/L	0.0302	1.012 mg/L	0.0302	2.98%
Li 610.362	7284.4	1.055 mg/L	0.0083	1.055 mg/L	0.0083	0.79%
S 181.975	4.5	0.0184 mg/L	0.00602	0.0184 mg/L	0.00602	32.64%

All analyte(s) passed QC.

ALAB: 00143

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)

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	2507.4	0.0193 mg/L	0.00066	0.0193 mg/L	0.00066	3.44%
Al 308.215	216.3	0.0063 mg/L	0.00037	0.0063 mg/L	0.00037	5.81%
As 188.979	22.5	0.0041 mg/L	0.00002	0.0041 mg/L	0.00002	0.39%
B 249.677	-1994.0	-0.0226 mg/L	0.00000	-0.0226 mg/L	0.00000	0.02%
Ba 233.527	72.9	0.0007 mg/L	0.00009	0.0007 mg/L	0.00009	12.14%
Be 313.107	1099.7	0.0005 mg/L	0.00007	0.0005 mg/L	0.00007	14.81%
Bi 223.061	-2.9	-0.0013 mg/L	0.00222	-0.0013 mg/L	0.00222	165.43%
Bi 190.171	-2.1	-0.0026 mg/L	0.00763	-0.0026 mg/L	0.00763	298.80%
Ca 315.887	28.7	0.0142 mg/L	0.00317	0.0142 mg/L	0.00317	22.34%
Ca 317.933	42.5	0.0177 mg/L	0.00401	0.0177 mg/L	0.00401	22.64%
Cd 214.440	26.6	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	1.87%
Co 228.616	19.9	0.0008 mg/L	0.00010	0.0008 mg/L	0.00010	13.21%
Cr 267.716	28.5	0.0007 mg/L	0.00003	0.0007 mg/L	0.00003	4.68%
Cu 324.752	235.1	0.0008 mg/L	0.00022	0.0008 mg/L	0.00022	27.73%
Fe 238.204	90.3	0.0023 mg/L	0.00018	0.0023 mg/L	0.00018	8.01%
Fe 273.955	92.0	0.0055 mg/L	0.00016	0.0055 mg/L	0.00016	2.84%
K 766.490	-154.4	-0.0585 mg/L	0.06209	-0.0585 mg/L	0.06209	106.20%
Mg 279.077	5.7	0.0253 mg/L	0.00075	0.0253 mg/L	0.00075	2.98%
Mn 257.610	336.1	0.0008 mg/L	0.00003	0.0008 mg/L	0.00003	3.51%
Mo 202.031	11.8	0.0026 mg/L	0.00073	0.0026 mg/L	0.00073	27.60%
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	0.04270	101.67%
Na 330.237	-6.6	-0.9144 mg/L	1.74551	-0.9144 mg/L	1.74551	190.89%
Ni 231.604	2.4	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	27.15%
Pb 220.353	57.4	0.0029 mg/L	0.00060	0.0029 mg/L	0.00060	20.43%
Sb 206.836	2.6	0.0024 mg/L	0.00433	0.0024 mg/L	0.00433	180.88%
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	0.00632	170.44%
Sn 189.927	2.0	0.0007 mg/L	0.00052	0.0007 mg/L	0.00052	79.16%
Sr 407.771	359.0	0.0008 mg/L	0.00021	0.0008 mg/L	0.00021	25.17%
Sr 421.552	154.1	0.0006 mg/L	0.00057	0.0006 mg/L	0.00057	89.22%
Ti 334.940	85.9	0.0002 mg/L	0.00000	0.0002 mg/L	0.00000	0.99%
Tl 190.801	17.3	0.0031 mg/L	0.00253	0.0031 mg/L	0.00253	80.87%
V 290.880	51.5	0.0003 mg/L	0.00035	0.0003 mg/L	0.00035	104.66%
W 207.912	-4.2	-0.0017 mg/L	0.00051	-0.0017 mg/L	0.00051	30.38%
Y 371.029	1709.5				81.60	4.77%
Zn 206.200	10.6	0.0007 mg/L	0.00004	0.0007 mg/L	0.00004	5.37%
P 213.617	3.6	0.0027 mg/L	0.00032	0.0027 mg/L	0.00032	12.16%
Si 251.611	169.1	0.0043 mg/L	0.00084	0.0043 mg/L	0.00084	19.46%
Li 670.784	440.2	0.0067 mg/L	0.00509	0.0067 mg/L	0.00509	75.86%
Li 610.362	-347.8	-0.0504 mg/L	0.01684	-0.0504 mg/L	0.01684	33.45%
S 181.975	-3.6	-0.0149 mg/L	0.02558	-0.0149 mg/L	0.02558	171.16%

QC Failed. Continue with analysis.

ALAB: 00144

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:

Mean Data: ICP_CCV(7-6-12)

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Std.Dev.	RSD
Ag 328.068	65257.0	0.5026 mg/L		0.00165	0.5026 mg/L	0.00165	0.33%
QC value within limits for Ag 328.068 Recovery = 100.52%							
Al 308.215	35665.9	1.040 mg/L		0.0015	1.040 mg/L	0.0015	0.15%
QC value within limits for Al 308.215 Recovery = 104.01%							
As 188.979	5423.1	0.9794 mg/L		0.00948	0.9794 mg/L	0.00948	0.97%
QC value within limits for As 188.979 Recovery = 97.94%							
B 249.677	79606.2	0.9005 mg/L		0.00687	0.9005 mg/L	0.00687	0.76%
QC value within limits for B 249.677 Recovery = 90.05%							
Ba 233.527	109601.7	1.064 mg/L		0.0064	1.064 mg/L	0.0064	0.60%
QC value within limits for Ba 233.527 Recovery = 106.40%							
Be 313.107	2176666.2	0.9834 mg/L		0.03389	0.9834 mg/L	0.03389	3.45%
QC value within limits for Be 313.107 Recovery = 98.34%							
Bi 223.061	-45.0	-0.0207 mg/L		0.00497	-0.0207 mg/L	0.00497	23.99%
Bi 190.171	5.8	0.0072 mg/L		0.00327	0.0072 mg/L	0.00327	45.51%
Ca 315.887	2401.4	1.185 mg/L		0.0229	1.185 mg/L	0.0229	1.93%
Ca 317.933	2848.8	1.189 mg/L		0.0160	1.189 mg/L	0.0160	1.34%
Cd 214.440	43993.4	0.9925 mg/L		0.01041	0.9925 mg/L	0.01041	1.05%
QC value within limits for Cd 214.440 Recovery = 99.25%							
Co 228.616	25912.6	1.015 mg/L		0.0083	1.015 mg/L	0.0083	0.82%
QC value within limits for Co 228.616 Recovery = 101.49%							
Cr 267.716	40299.4	1.044 mg/L		0.0049	1.044 mg/L	0.0049	0.47%
QC value within limits for Cr 267.716 Recovery = 104.39%							
Cu 324.752	296078.3	0.9940 mg/L		0.00376	0.9940 mg/L	0.00376	0.38%
QC value within limits for Cu 324.752 Recovery = 99.40%							
Fe 238.204	41517.3	1.053 mg/L		0.0038	1.053 mg/L	0.0038	0.36%
QC value within limits for Fe 238.204 Recovery = 105.33%							
Fe 273.955	17052.2	1.024 mg/L		0.0052	1.024 mg/L	0.0052	0.51%
QC value within limits for Fe 273.955 Recovery = 102.42%							
K 766.490	29674.0	11.23 mg/L		0.203	11.23 mg/L	0.203	1.81%
Mg 279.077	261.0	1.166 mg/L		0.0172	1.166 mg/L	0.0172	1.47%
Mn 257.610	430640.0	1.002 mg/L		0.0356	1.002 mg/L	0.0356	3.55%
QC value within limits for Mn 257.610 Recovery = 100.24%							
Mo 202.031	4473.9	1.003 mg/L		0.0007	1.003 mg/L	0.0007	0.07%
QC value within limits for Mo 202.031 Recovery = 100.31%							
Na 589.592	7021.5	1.182 mg/L		0.0575	1.182 mg/L	0.0575	4.86%
Na 330.237	-13.6	-1.885 mg/L		1.7518	-1.885 mg/L	1.7518	92.95%
Ni 231.604	19361.8	1.033 mg/L		0.0022	1.033 mg/L	0.0022	0.21%
QC value within limits for Ni 231.604 Recovery = 103.31%							
Pb 220.353	20445.2	1.040 mg/L		0.0383	1.040 mg/L	0.0383	3.69%
QC value within limits for Pb 220.353 Recovery = 103.99%							
Sb 206.836	1033.7	0.9411 mg/L		0.00776	0.9411 mg/L	0.00776	0.82%
QC value within limits for Sb 206.836 Recovery = 94.11%							
Se 196.026	7917.5	1.011 mg/L		0.0142	1.011 mg/L	0.0142	1.41%
QC value within limits for Se 196.026 Recovery = 101.07%							
Sn 189.927	-9.4	-0.0031 mg/L		0.00020	-0.0031 mg/L	0.00020	6.45%
Sr 407.771	427036.4	0.9927 mg/L		0.01420	0.9927 mg/L	0.01420	1.43%
QC value within limits for Sr 407.771 Recovery = 99.27%							
Sr 421.552	240545.4	1.001 mg/L		0.0011	1.001 mg/L	0.0011	0.11%
QC value within limits for Sr 421.552 Recovery = 100.05%							
Ti 334.940	372014.6	1.011 mg/L		0.0406	1.011 mg/L	0.0406	4.02%
QC value within limits for Ti 334.940 Recovery = 101.06%							
Tl 190.801	5751.2	1.040 mg/L		0.0078	1.040 mg/L	0.0078	0.75%
QC value within limits for Tl 190.801 Recovery = 104.01%							
V 290.880	156198.4	1.011 mg/L		0.0076	1.011 mg/L	0.0076	0.75%
QC value within limits for V 290.880 Recovery = 101.10%							
W 207.912	17.2	0.0070 mg/L		0.00069	0.0070 mg/L	0.00069	9.86%
Y 371.029	1336.0					139.49	10.44%
Zn 206.200	14697.2	0.9986 mg/L		0.00221	0.9986 mg/L	0.00221	0.22%
QC value within limits for Zn 206.200 Recovery = 99.86%							
P 213.617	-1849.1	-1.360 mg/L		0.1221	-1.360 mg/L	0.1221	8.98%
Si 251.611	39014.3	0.9946 mg/L		0.00687	0.9946 mg/L	0.00687	0.69%
QC value within limits for Si 251.611 Recovery = 99.46%							
Li 670.784	67805.7	1.034 mg/L		0.0002	1.034 mg/L	0.0002	0.01%
Li 610.362	6810.6	0.9863 mg/L		0.10347	0.9863 mg/L	0.10347	10.44%

User canceled analysis.

=====

Analysis Begun

Start Time: 10/17/2012 1:32:15 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.: 50

Autosampler Location: 8

Sample ID: ICP_CCB(Daily)

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

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: ICP_CCB(Daily)

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	2655.8	0.0205 mg/L	0.00002	0.0205 mg/L	0.00002	0.11%
Al 308.215	50.5	0.0015 mg/L	0.00387	0.0015 mg/L	0.00387	262.82%
As 188.979	10.6	0.0019 mg/L	0.00103	0.0019 mg/L	0.00103	53.79%
B 249.677	-3474.0	-0.0393 mg/L	0.00046	-0.0393 mg/L	0.00046	1.17%
Ba 233.527	115.2	0.0011 mg/L	0.00006	0.0011 mg/L	0.00006	5.04%
Be 313.107	1687.6	0.0008 mg/L	0.00005	0.0008 mg/L	0.00005	5.99%
Bi 223.061	5.8	0.0027 mg/L	0.00201	0.0027 mg/L	0.00201	74.89%
Bi 190.171	-0.7	-0.0009 mg/L	0.00373	-0.0009 mg/L	0.00373	416.10%
Ca 315.887	30.5	0.0151 mg/L	0.00049	0.0151 mg/L	0.00049	3.25%
Ca 317.933	35.5	0.0148 mg/L	0.00104	0.0148 mg/L	0.00104	7.04%
Cd 214.440	39.0	0.0009 mg/L	0.00019	0.0009 mg/L	0.00019	21.46%
Co 228.616	33.4	0.0013 mg/L	0.00028	0.0013 mg/L	0.00028	21.50%
Cr 267.716	42.9	0.0011 mg/L	0.00018	0.0011 mg/L	0.00018	16.23%
Cu 324.752	277.9	0.0009 mg/L	0.00010	0.0009 mg/L	0.00010	10.88%
Fe 238.204	86.5	0.0022 mg/L	0.00029	0.0022 mg/L	0.00029	13.04%
Fe 273.955	101.3	0.0061 mg/L	0.00029	0.0061 mg/L	0.00029	4.80%
K 766.490	239.9	0.0908 mg/L	0.06441	0.0908 mg/L	0.06441	70.92%
Mg 279.077	1.8	0.0080 mg/L	0.00383	0.0080 mg/L	0.00383	48.13%
Mn 257.610	475.8	0.0011 mg/L	0.00002	0.0011 mg/L	0.00002	1.43%
Mo 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%						
Na 589.592	313.9	0.0528 mg/L	0.02854	0.0528 mg/L	0.02854	54.02%
Na 330.237	1.4	0.1951 mg/L	0.69941	0.1951 mg/L	0.69941	358.47%
Ni 231.604	6.1	0.0003 mg/L	0.00021	0.0003 mg/L	0.00021	63.73%
Pb 220.353	62.5	0.0032 mg/L	0.00019	0.0032 mg/L	0.00019	6.01%
Sb 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%						
Se 196.026	-6.5	-0.0008 mg/L	0.00614	-0.0008 mg/L	0.00614	745.69%
Sn 189.927	-1.9	-0.0006 mg/L	0.00103	-0.0006 mg/L	0.00103	170.34%
Sr 407.771	466.8	0.0011 mg/L	0.00043	0.0011 mg/L	0.00043	39.27%
Sr 421.552	176.0	0.0007 mg/L	0.00012	0.0007 mg/L	0.00012	16.11%
Ti 334.940	94.3	0.0003 mg/L	0.00036	0.0003 mg/L	0.00036	139.80%
Tl 190.801	-8.4	-0.0015 mg/L	0.00488	-0.0015 mg/L	0.00488	322.13%
V 290.880	177.9	0.0012 mg/L	0.00006	0.0012 mg/L	0.00006	5.04%
W 207.912	-2.8	-0.0011 mg/L	0.00028	-0.0011 mg/L	0.00028	25.13%
Y 371.029	1684.0				43.42	2.58%
Zn 206.200	16.5	0.0011 mg/L	0.00020	0.0011 mg/L	0.00020	18.06%
P 213.617	8.9	0.0065 mg/L	0.00337	0.0065 mg/L	0.00337	51.66%
Si 251.611	133.0	0.0034 mg/L	0.00019	0.0034 mg/L	0.00019	5.63%
Li 670.784	210.4	0.0032 mg/L	0.00113	0.0032 mg/L	0.00113	35.09%
Li 610.362	166.6	0.0241 mg/L	0.01882	0.0241 mg/L	0.01882	77.99%
S 181.975	1.4	0.0057 mg/L	0.00998	0.0057 mg/L	0.00998	175.96%

QC Failed. Continue with analysis.

ALAB: 00146

===== 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
Sample ID: ICP_CCV(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 7
Date Collected: 10/17/2012 2:34:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Mean Data: ICP_CCV(7-6-12)
Table with 8 columns: Analyte, Mean Corrected Intensity, Conc. Units, Std.Dev., Sample Conc. Units, Std.Dev., RSD, and QC value within limits for. The table lists various elements (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl) and their corresponding data values.

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD	QC value within limits for
Ag 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%
Al 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%
As 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%
B 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%
Ba 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%
Be 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%
Bi 223.061	-41.4	-0.0191 mg/L	0.00087	-0.0191 mg/L	0.00087	4.58%	
Bi 190.171	5.3	0.0065 mg/L	0.00037	0.0065 mg/L	0.00037	5.69%	
Ca 315.887	2432.6	1.200 mg/L	0.0020	1.200 mg/L	0.0020	0.16%	
Ca 317.933	2893.6	1.208 mg/L	0.0108	1.208 mg/L	0.0108	0.89%	
Cd 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%
Co 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%
Cr 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%
Cu 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%
Fe 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%
Fe 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%
K 766.490	29124.7	11.03 mg/L	0.245	11.03 mg/L	0.245	2.22%	
Mg 279.077	276.3	1.235 mg/L	0.0007	1.235 mg/L	0.0007	0.06%	
Mn 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%
Mo 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%
Na 589.592	6964.2	1.172 mg/L	0.0953	1.172 mg/L	0.0953	8.13%	
Na 330.237	-17.1	-2.363 mg/L	0.6812	-2.363 mg/L	0.6812	28.82%	
Ni 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%
Pb 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%
Sb 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%
Se 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%
Sn 189.927	-10.2	-0.0033 mg/L	0.00124	-0.0033 mg/L	0.00124	37.39%	
Sr 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%
Sr 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%
Ti 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%
Tl 190.801	5946.6	1.075 mg/L	0.0024	1.075 mg/L	0.0024	0.22%	QC value within limits for Tl 190.801 Recovery = 107.55%

ALAB: 00147

W 207.912	19.7	0.0080 mg/L	0.00032	0.0080 mg/L	0.00032	3.96%
Y 371.029	1794.3				14.94	0.83%
Zn 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%						
P 213.617	-1810.3	-1.332 mg/L	0.0905	-1.332 mg/L	0.0905	6.80%
Si 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%						
Li 670.784	64379.1	0.9814 mg/L	0.03268	0.9814 mg/L	0.03268	3.33%
Li 610.362	6616.2	0.9581 mg/L	0.05873	0.9581 mg/L	0.05873	6.13%
S 181.975	5.0	0.0205 mg/L	0.00097	0.0205 mg/L	0.00097	4.72%

QC Failed. Continue with analysis.

ALAB: 00148